



TETRA TECH

November 14, 2008

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Atlanta, GA 30303

**Subject: Final Comprehensive Environmental Response, Compensation, and Liability Act
(CERCLA) Removal Action Report
BCX Tank (Removal)
Jacksonville, Duval County, Florida
EPA Contract No. EP-W-05-054
TDD No. TTEM-05-001-0051**

Dear Mr. Huyser:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting the enclosed final removal action report for the BCX Tank site in Jacksonville, Duval County, Florida. The report summarizes field activities conducted at the site during the removal action from January 24, 2008, to July 24, 2008.

If you have any questions about the enclosed report, please call me at (678) 775-3095 or Andrew Johnson at (678) 775-3100.

Sincerely,

Yuen-Chang (Didi) Fung, EIT
START III Project Manager

Andrew F. Johnson
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Enclosure

cc: Katrina Jones, EPA Project Officer
Angel Reed, START III Document Control Coordinator

**FINAL CERCLA REMOVAL ACTION REPORT
BCX TANK (REMOVAL)
JACKSONVILLE, DUVAL COUNTY, FLORIDA
EPA CONTRACT NO. EP-W-05-54
TDD NO. TTEMI-05-001-0051**

Revision 0

Prepared for

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Region 4, Emergency Response and Removal Branch
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1.0 INTRODUCTION

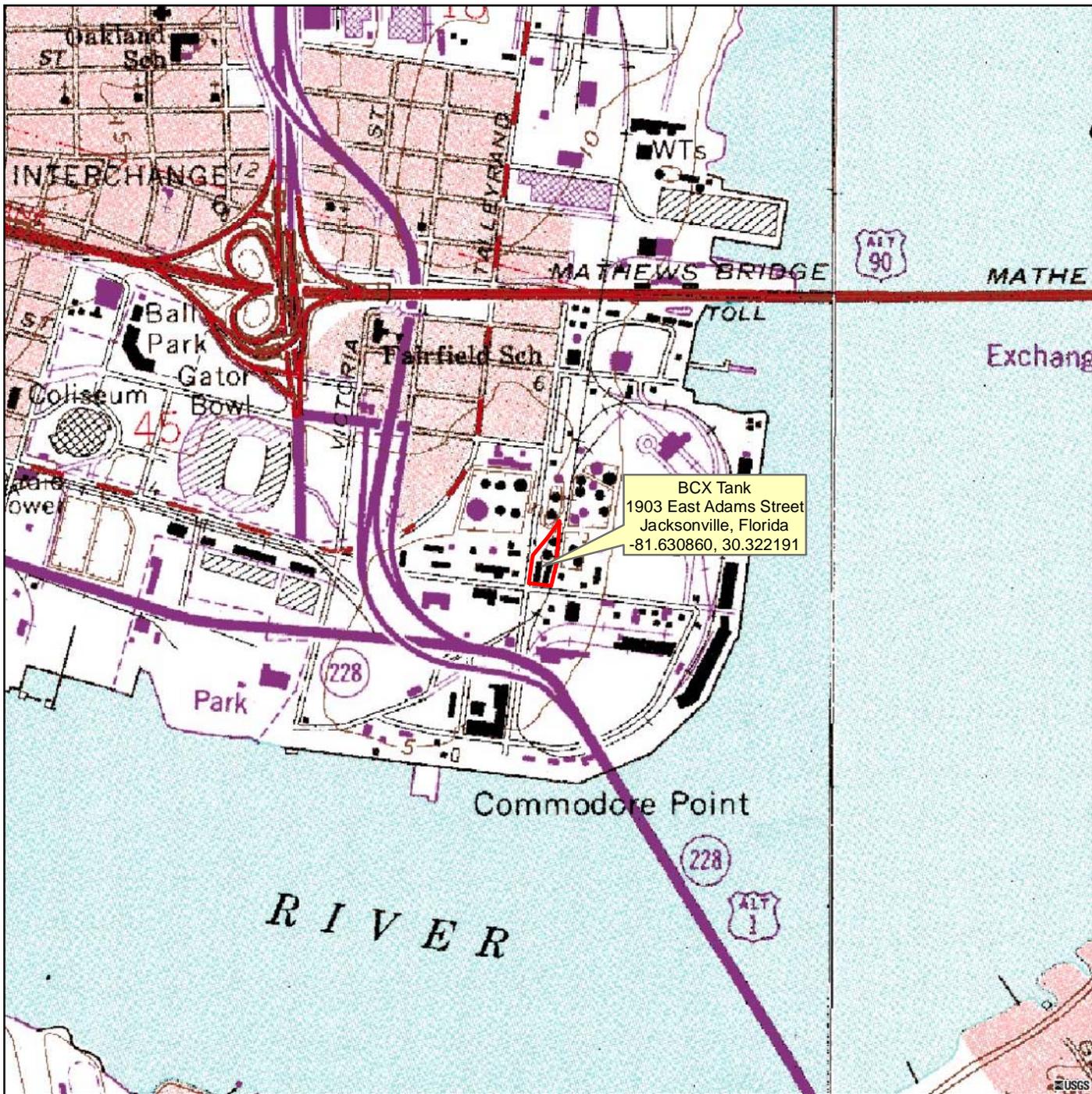
This report has been prepared under the provisions of Technical Direction Document (TDD) No. TTEMI-05-001-0051, which the U.S. Environmental Protection Agency (EPA) Region 4 assigned to the Tetra Tech EM Inc., (Tetra Tech) Superfund Technical Assessment and Response Team (START) under Contract No. EP-W-05-054. The overall scope of this TDD, which is monitored by On-Scene Coordinator (OSC) Matthew Huyser, was to provide technical assistance during removal action activities at the BCX Tank Removal (BCX) site in Jacksonville, Duval County, Florida. Specific elements of this TDD included documenting on-site conditions and activities with logbook notes (Appendix A) and photographs (Appendix B), providing split sampling (waste liquid, sludge, and tank rinsate), providing data analysis, conducting validation and management, and preparing a final report.

This Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) removal action report discusses the site background (Section 2.0); removal action activities (Section 3.0); Potentially Responsible Parties (PRPs) Work Plan concurrence (Section 4.0); and split sample analytical results (Section 5.0). It also provides a summary and conclusions regarding the removal action. Appendix A of this report presents a photographic log of removal action activities and site conditions, Appendix B presents tank information, disposal quantities, air monitoring readings and split sample correlation tables, Appendix C provides data validation reports and validated data, Appendix D provides chain-of-custody forms for samples sent to the analytical laboratory, Appendix E provides a table of witnesses to the removal action activities, Appendix F provides weekly work order status reports, and Appendix G provides a copy of Tetra Tech's field notes.

2.0 SITE BACKGROUND

The BCX site is located at 1903 East Adams Street in Jacksonville, Duval County, Florida (see Figure 1). Site-specific geographic coordinates for the site are 30.32234 north latitude and 81.63104 west longitude. The BCX site occupies 0.89 acre in an industrial and commercial area. The BCX site is a former used oil recycling and wastewater treatment facility. The facility includes two sections: (1) a triangle-shaped concrete secondary containment area 7 feet high that encloses 23 aboveground storage tanks (AST), and (2) a fenced, vacant lot (see Figure 2).



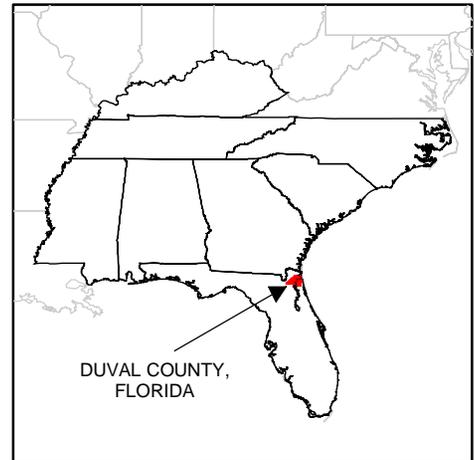


BCX Tank
1903 East Adams Street
Jacksonville, Florida
-81.630860, 30.322191



0 500 1,000
Feet
1:12,000

MAP SOURCE:
USGS, JACKSONVILLE, FL
TOPOGRAPHIC QUADRANGLE, 1994



 United States Environmental Protection Agency

BCX TANK REMOVAL
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-001-0051

FIGURE 1
SITE LOCATION





LEGEND

- × — Fence Line
- — — Estimated Property Boundary
- +— Railroad Tracks
- Off-Site Structures

Tank Capacities

- 1,000-Gallon or less
- 1,000 to 10,000-Gallon
- 10,000 to 20,000-Gallon
- 20,000 to 100,000-Gallon
- 100,000 to 500,000-Gallon
- 500,000-Gallon or larger



MAP SOURCE:
www.coj.net 2006
& Weston Solutions
General Site Layout 3/10/05



United States Environmental Protection Agency

BCX TANK REMOVAL
JACKSONVILLE,
DUVAL COUNTY,
FLORIDA
TDD No. TTEMI-05-001-0051

**FIGURE 2
SITE LAYOUT**



In July 1987, International Processing Specialist, Inc., (IPS) leased the site property from Petroleum Fuel and Terminal Co., to operate a used oil processing facility and a wastewater treatment facility. By 1991, IPS's used oil process was operational, but required upgrades per a May 1996 Administrative Order of Consent (AOC) entered into with the Florida Department of Environmental Protection (FDEP). In 1997, FDEP issued IPS a permit to operate its used oil processing facility.

BCX purchased the facility in 2001 from Petroleum Fuel and Terminal Co., and attempted to bring the facility into compliance. Unsuccessful in its attempts, the facility stopped receiving waste oil the same year, and by May 2002, FDEP had revoked IPS's permit to operate.

In June 2004, an inspector with the City of Jacksonville's Tanks Program observed an accumulation of liquid in the secondary containment area. FDEP and the City of Jacksonville obtained an emergency Temporary Injunction ordering BCX, IPS, and other PRPs to address the accumulated liquid, but were informed by BCX that it had insufficient funds to complete the task.

In July 2004, the U.S. Environmental Protection Agency (EPA) directed WRS Infrastructure and Environment to collect samples from all ASTs at the facility. Analytical results for the samples indicated the presence of benzene, toluene, ethylbenzene, xylene, methyl tert-butyl ether, methyl ethyl ketone, naphthalene, 1- and 2-methylnaphthalene, barium, cadmium, chromium, and lead. The contents of the ASTs were pumped out and disposed of at EPA-approved disposal facilities. However, the ASTs were not removed from the property. In December 2004, EPA directed Weston Solutions to collect surface soil and ground water samples at the BCX site. Analytical results for surface soil samples indicated the presence of semivolatile organic compounds (SVOC) at concentrations exceeding their respective EPA Region 9 preliminary remediation goals. However, analytical results for ground water samples did not reveal the presence of analytes at concentrations exceeding their respective reporting limits.

On August 1, 2007, Tetra Tech—together with ARCADIS (the PRPs' contractor) and its subcontractor SWS First Response (SWS)—completed split sampling collection activities from the 19 ASTs on site. Tetra Tech obtained split waste samples from four tanks (Tanks Nos. 02, 104, 106, and 107) and an aqueous sample from one tank (Tank No. 103). Of the remaining 14 ASTs, three were empty, two were inaccessible, and nine did not contain enough material for sample collection. In addition, Tetra Tech collected one three-point composite aqueous sample from the standing liquid located in the secondary containment area.



Analytical results for the four waste samples indicated the presence of barium, chromium, lead, heptachlor epoxide, acetone, chloroform, ethylbenzene, isopropylbenzene, m,p-xylene, o-xylene, tetrachloroethene, toluene, and 2-methylnaphthalene.

Analytical results for aqueous sample T103-AQ-01 collected from Tank No. 103 indicated the presence of arsenic, barium, cadmium, chromium, lead, mercury, acetone, ethylbenzene, m,p-xylene, o-xylene, toluene, 2-methylnaphthalene, and bis(2-ethylhexyl)phthalate, among other analytes.

Analytical results for aqueous sample CB-AQ-01 collected from the secondary containment area indicated the presence of inorganic constituents including barium, chromium, copper, lead, and zinc, among other analytes. The only positive organic analyte result for sample CB-AQ-01 was for bis(2-ethylhexyl)phthalate. The analytical results were used for waste disposal profile determination.

3.0 REMOVAL ACTION ACTIVITIES

As requested by EPA, Tetra Tech START provided technical assistance during a removal action conducted by the PRPs at the BCX site from January 24 through July 24, 2008. PRPs removal action activities generally involved the following consultants and contractors:

- Geosyntec (the PRPs' lead consultant) supervised removal action activities, and collected samples for waste profiling, quality control, and confirmation activities.
- Moran Environmental Recovery (Moran), the main contractor hired by Geosyntec, conducted removal action activities, which included waste treatment and disposal, tank farm and process line demolition, multiple stages of site decontamination, and site closure.
- J & J Recycling and Demo, LLC, the scrap metal subcontractor, demolished the three largest tanks and removed metal.

During removal action activities, Tetra Tech START provided oversight of Geosyntec and its contractors to ensure that activities were conducted in accordance with the AOC (dated October 10, 2007), as well as Geosyntec's approved Work Plan, Field Sampling Plan, Health and Safety Plan, and Quality Assurance Project Plan (dated December 7, 2007). Tetra Tech START documented site conditions and removal activities with logbook notes (Appendix A) and photographs (Appendix B); oversaw air monitoring; conducted split sampling with Geosyntec for the collection of liquid, sludge, rinsate, and quality control samples; and provided data analysis and management. Sampling techniques were conducted in accordance with the EPA Region 4 Science and Ecosystems Support Division's *Environmental*



Investigations Standard Operating Procedures and Quality Assurance Manual (EISOPQAM) dated November 2001.

The following subsections provide additional activities conducted during the removal action.

3.1 SECONDARY CONTAINMENT AREA DEWATERING

Geosyntec and Moran's first task was to dewater the secondary containment area filled with an estimated 114,541 gallons of liquid. The plan proposed to EPA was to discharge the liquid directly into the City of Jacksonville's Jacksonville Electric Authority (JEA) sewer system. The JEA set permit guidelines to allow a discharge rate of 30 gallons per minute. Based on the permit guidelines, dewatering activities required approximately one week to complete. No other removal action activities could begin until dewatering was complete. Dewatering activities began on January 23, 2008, and were completed on February 5, 2008.

3.2 SECONDARY CONTAINMENT AREA DECONTAMINATION

Decontamination of the secondary containment area was identified as the next task by Geosyntec and Moran. Debris and a slick residue were removed using a pressure washer, squeegees, shovels, and vacuum trucks. The solid debris was placed in a roll-off container while the wash water was collected and transported to Water Recovery Inc., (WRI), a local wastewater and oil recycling facility. Process piping and associated metal were also cut free or disassembled, pressure washed, and segregated for landfill disposal or scrap metal recycling. During decontamination activities in the secondary containment area, rain events were common, and, therefore, dewatering activities continued throughout the project. However, beginning on February 6, 2008, liquid from the secondary containment area was routinely transported to WRI for processing and no longer pumped into the JEA sewer system. Decontamination activities were completed on June 27, 2008.

3.3 AST FARM ASSESSMENT AND SAMPLING

On February 9, 2008, a closer inspection of each AST in the containment area occurred using a man lift to access each tank, as necessary. Four additional ASTs were identified and added to the 19 previously tagged, raising the total number of ASTs in the secondary containment area to 23. Information gathered for each tank during these inspections included tank condition, volume, contents, and the matrix of material. Table 1 in Appendix B provides a summary of the results obtained from these inspections.



Samples were also collected from some ASTs to see if WRI would accept the liquid portion of the contents.

Material levels were approximated first visually and then confirmed by drilling pilot holes into the tank sidewalls just above the material level. Occasionally, the pilot holes were drilled too low and a wooden dowel was used to plug the hole before drilling another hole at a higher point on the AST. Where access ways existed in a usable position, they were utilized to inspect the ASTs. However, most cases required use of a pneumatic metal nibbler tool to cut an access hole at the desired location on the AST sidewall.

Geosyntec began sampling the material in each AST on February 15, 2008, and completed sampling in all tanks on March 17, 2008. Some ASTs had a liquid layer on top of a solid layer. In instances such as this, the solid material was sampled after the liquid layer was removed. Samples collected from the ASTs were subsequently delivered to a fixed laboratory for waste disposal profile analysis.

3.4 AST FARM DEMOLITION

After AST assessment and sampling were completed, the ASTs were opened up to facilitate access to the contents for removal. On February 25, 2008, a marine chemist from Southern Marine Chemists, Inc., (SMC) inspected each AST and issued hot work certifications for 15 of the 23 tanks based on their contents. Use of welder cloth to cover the material during the torch cutting operations was recommended to minimize potential for flareups and excess smoke. In addition, a readily available water source was maintained on site to suppress any flareups.

Using a crane to support the top of each AST, Moran began cutting the sidewalls just above the material level to remove the top and open up each AST. A cutting torch was used for each of the ASTs permitted for hot work by SMC, while a pneumatic tool was used to cut the ASTs not so permitted. Each AST, except those of larger capacity tanks (2, 106, and 107), was cut open using these techniques. On June 20, 2008, J&J Recycling and Demo, LLC used a sheer mounted excavator to complete demolition and removal of Tanks 2, 106, and 107.

3.5 STABILIZATION, TRANSPORTATION, AND DISPOSAL

On March 18, 2008, Moran demobilized from the site to await finalization of disposal arrangements. On April 29, 2008, Moran remobilized to the site to begin stabilization, transportation, and disposal activities. Tetra Tech's oversight presence waned beginning May 2, 2008, per request of OSC Matthew Huyser.



Information regarding removal action activities after this date derived from conversations with representatives of EPA, Geosyntec, and Moran, as well as periodic site visits by Tetra Tech START. In order to meet the disposal requirements, the sludge material from the ASTs was stabilized/solidified by mixing with bed ash obtained from the JEA, and paint filter tests were performed each day before material load-out activities began. By June 3, 2008, Tetra Tech observed that all the ASTs and associated material (except Tanks 2, 106, and 107) had been removed from site. Tank 2 with approximately 195,497 gallons of material was emptied and decontaminated. Tank 106 was emptied and undergoing decontamination. Tank 107 was undergoing material removal and stabilization with bed ash. In addition, final pressure washing was occurring in portions of the secondary containment area.

Stabilized/solidified materials were categorized as non-hazardous waste and scheduled for disposal at the Broadhurst Landfill located in Jesup, Georgia. Total quantities of material disposed of during the removal activities are summarized in detail in Tables 2 through 5 in Appendix B. The list below provides a brief summary of materials removed from the site, including volume estimates and disposal facilities.

FIGURE 3 – OFFSITE DISPOSAL SUMMARY

Disposal Facility	Volume Disposed of	Description of Materials Disposed of
Water Recovery Inc. (Jacksonville, Florida)	196,275.8 Gallons	Wastewater removed from secondary containment area and ASTs
Berman Brothers, Inc. (Jacksonville, Florida)	94.60 Tons	Scrap metal from ASTs (except Tanks 02, 106, 107)
Chesser Island Landfill (Folkston, Georgia)	6.32 Tons	Miscellaneous site debris
Broadhurst Environmental Landfill (Jesup, Georgia)	1921.29 Tons	Stabilized/solidified materials removed from ASTs
J&J Recycling and Demo, LLC (New Smyrna Beach, Florida)	~200 to 250 Tons	Scrap metal from Tanks 02, 106, and 107

3.6 FINAL CLEANUP AND SITE WALK THROUGH

On May 15, 2008, two of the three monitoring wells (MW-1, MW-2) located inside the secondary containment area were abandoned by Partridge Well Drilling Company out of Orange Park, Florida. The third monitoring well (MW-3) could not be abandoned due to an obstruction in the well.

On July 24, 2008, representatives of EPA, Tetra Tech START, FDEP, and PRPs’ attorneys met at the site for a final site walk through. At that time, all ASTs including Tanks 2, 106, and 107 had been removed from the site. Because Tanks 2, 106, and 107 were the only ASTs that had sat on soil instead of the concrete containment pad, their metal bottoms were left in place and sealed around the edges with



concrete. Observations by the involved parties during the final site walk through satisfied them with the completion of removal activities and final site conditions.

4.0 PRPs WORK PLAN CONCURRENCE

Tetra Tech was tasked by EPA to provide oversight of the removal action activities at the BCX site to ensure that these were conducted in accordance with the approved PRPs' work plan dated December 21, 2008. Specifically, Tetra Tech focused on reviewing each task hazard analysis (THA) prepared by the PRPs, overseeing PRPs' sampling protocols, and overseeing PRPs' air monitoring practices. These items are discussed in the following subsections.

4.1 TASK HAZARD ANALYSIS

The following 16 THAs were generated by the PRPs during the removal action activities:

- THA No. 001 – Secondary Containment Area Sampling
- THA No. 002 – Pump Water in Containment Area; Power Wash Floor
- THA No. 003 – Tank Analysis and Assessment
- THA No. 004 – Pumping of Secondary Containment of Tanker Truck / Poly Tank, AST
- THA No. 005 – Demo of Piping within Secondary Containment
- THA No. 006 – Assessing Pressure Vessels
- THA No. 007 – Vacuum Unit Operations / Squeegee Operations
- THA No. 008 – Pumping to Tank 107
- THA No. 009 – Access Tanks for Sampling and Cleaning
- THA No. 010 – Breaching Wall
- THA No. 011 – Vacuum Box Operations
- THA No. 012 – Tank Demo & Cleaning
- THA No. 013 – Drum Sampling
- THA No. 014 – Solidification of Small Tanks
- THA No. 015 – Solidification / Transportation of Materials in Tanks 02, 10, 12-17, 103-107
- THA No. 016 – Demolition of Tanks 02, 106, and 107

During removal action activities, the following two incidents occurred, which resulted in further review of THA No. 6 and THA No. 15:



- On February 9, 2008, during assessment of a pressure vessel on the south end of the secondary containment area, piping attached to the vessel was cut, resulting in a release of material. Moran quickly capped the piping and cleaned up the spilled material. Geosyntec stopped all site work, discussed the incident and, again reviewed THA No. 6.
- On May 19, 2008, a disposal transport truck leaving the site spilled a portion of its load on the expressway due to a failed hydraulic tailgate latch. The spill was again quickly cleaned up by Moran and the tailgate was secured. Geosyntec continued to inspect all trucks before leaving site, paying special attention to the tailgates.

4.2 PRPs SAMPLING PROTOCOL

Geosyntec performed all of the waste disposal profile sampling and confirmation rinsate sampling for the BCX site. Sampling equipment for sludge/solid material included stainless steel (s.s.) spoons and bowls for collecting/homogenizing, and glass jars for delivery to a fixed laboratory for analysis. Sampling equipment for liquid material included just the appropriate glass sample container(s). Sampling equipment for equipment rinsate samples included s.s. bowls and spoons, and glass and plastic containers for delivery to fixed laboratory for analysis. Nitrile gloves were used and changed between each sampling.

Tank rinsate samples were also collected following decontamination as discussed in the PRPs' work plan dated December 21, 2008. An unconventional method using a pressure washer hooked to the local water supply was applied to wash the tank walls and floors. A peristaltic pump was then used to collect the rinsate liquid from the tank floor and transfer it into glass and plastic containers for delivery to a fixed laboratory for analysis.

4.3 PRPs AIR MONITORING

Air monitoring was performed during various phases of the removal action, including demolition activities. Table 6 in Appendix B presents the readings overseen by Tetra Tech START. Necessary air monitoring was discussed in THAs 05, 06, 09, 12, 13, and 15. Due to past accidents at the site which occurred while the facility was in operation, as well as the nature of the materials in the ASTs, potential for an explosive environment was a concern. Both Geosyntec and Moran utilized multi-gas meters to verify that the environment was safe for the activity being performed. The meter was set up to measure the standard parameters of the lower explosive limit, oxygen, carbon monoxide, hydrogen sulfide, and in some cases, volatile organic compounds (VOC). Most air monitoring results were below respective



action levels or in the safe range. In some instances, where harmful levels of a gas were detected and deemed unsafe for a particular activity, engineering control measures were used to render that environment safe. For instance, while process pipe cutting occurred (usually with cold cutting devices), air monitoring was performed in each section of pipe and a vacuum truck was connected to the pipe to evacuate harmful gases.

5.0 SPLIT SAMPLE ANALYTICAL RESULTS

This section summarizes split sample analytical results obtained by Tetra Tech START and the correlation of these results to the PRPs' results. Split samples were collected from a cross section of the PRPs' samples based on their purpose and importance in order to ensure that disposal and removal action activities were accurately completed.

5.1 SAMPLE ANALYTICAL RESULTS

During removal action activities, Tetra Tech START, together with Geosyntec, completed split sampling activities from the 23 ASTs. Tetra Tech START collected solid/sludge waste samples from six ASTs (Tanks 12, 13, 101, 104, 114, and 115)—equivalent to approximately 26 percent of the ASTs at the BCX site. Tetra Tech collected one rinsate sample from Tank 107 and one from the secondary containment area. In addition, quality control samples were collected to ensure that equipment decontamination was performed properly, that field sample preparation methods were sound, and that sample shipment proceeded without interference.

Tetra Tech START's split samples were sent to Shealy Environmental Services, Inc. (Shealy), in West Columbia, South Carolina, for analysis. Geosyntec's samples were sent to Accutest in Orlando, Florida, for analysis. All samples were analyzed for VOCs, SVOCs, organochlorine pesticides, polychlorinated biphenyls, and target analyte list metals. Tables 7 and 8 in Appendix B provide summaries of the analytical results obtained by Tetra Tech START. EPA requested that a portion of Tetra Tech START's analytical data undergo data validation review. Appendix C provides the data validation reports. Appendix D provides copies of the chain-of-custody forms for Tetra Tech START's samples collected during this removal action.



Analytical results from Shealy for the six solid/sludge waste samples indicated the presence of the following analytes:

VOCs:

4-Methyl-2-pentanone
Carbon disulfate
Ethylbenzene
Isopropylbenzene
Tetrachloroethene/Tetrachloroethylene
Toluene
Xylenes (total)

SVOCs:

1,1'-Biphenyl
2-Methylnaphthalene
Acenaphthene
Anthracene
Benzo(a)anthracene
Bis(2Ethylhexyl)phthalate
Butyl benzyl phthalate
Chrysene
Di-n-butyl phthalate
Fluoranthene
Fluorene
Naphthalene
Phenanthrene
Pyrene

Pesticides:

beta-BHC
gamma-BHC
Heptachlor
Heptachlor epoxide

Metals:

Aluminum
Antimony
Arsenic
Barium
Cadmium
Calcium
Chromium
Cobalt
Copper
Iron
Lead
Magnesium
Manganese
Nickel
Potassium
Silver
Sodium
Thallium
Vanadium
Zinc

Analytical results from Shealy for the two rinsate samples indicated the presence of the following analytes;

SVOCs:

Phenol*
Calcium
Manganese
Vanadium

Metals:

Copper
Potassium
Zinc
Bis(2-Ethylhexyl)phthalate*
Aluminum
Magnesium
Sodium

Analytes marked with an asterisk (*) were seen at concentrations above the Freshwater Surface Water Cleanup Target Levels (SWCTL) established by FDEP. Geosyntec's results also showed these analytes at concentrations above the SWCTLs, in addition to cadmium and lead.



5.2 SPLIT SAMPLE CORRELATION RESULTS

Analytical results for split samples collected by Tetra Tech START were compared to those obtained by Geosyntec. The validation status for the analytical results obtained by Geosyntec is unknown. Summary Tables 7 and 8 included in Appendix B provide a detailed comparison of these analytical results. The analyte detections are shown in bold, and analytes that fell outside one order of magnitude from each other are shown shaded.

The list below briefly summarizes those analytes for which analytical results obtained by Tetra Tech START and Geosyntec revealed concentrations that differed by at least one order of magnitude.

Tank 12:

VOC – Carbon disulfate
SVOC – Anthracene

Tank 13:

Pesticide – gamma-BHC (Lindane)
Pesticide – Heptachlor
Pesticide – Heptachlor epoxide
Metal – Arsenic
Metal – Mercury
Metal – Selenium

Tank 104:

VOC – Benzene
VOC – Ethylbenzene
VOC – Methylene chloride
VOC – Tetrachloroethene/Tetrachloroethylene
VOC – Toluene
VOC – Xylenes (total)

For Tank 12, the Tetra Tech results were the greater of the two sets. For Tank 13, the Tetra Tech organic results were higher, while the Geosyntec metals results were the greater of the two sets. For Tank 104, the Geosyntec results were higher. Based on these observations, there does not appear to be a pattern to the inconsistencies between the two data sets, which makes the source of the inconsistencies undefinable.

Two situations occurred that impacted the comparison of split samples. First, heptachlor epoxide was consistently detected in selected Tetra Tech tank samples, but not observed in the corresponding Geosyntec samples. Second was an inability to obtain SVOC results for the tank and containment area equipment rinsate blank because sample containers inadvertently had broken in shipment.

The split sample collected during removal action activities from Tank 13 was reanalyzed for pesticides due to an anomalous heptachlor epoxide detection. Although heptachlor epoxide was detected in the samples collected from this tank by Tetra Tech on two different occasions and sent to two different laboratories (Analytical Environmental Services during the removal site evaluation conducted in August 2007 and Shealy Environmental Services during removal action activities on February 15, 2008), the



PRPs' data did not indicate the presence of heptachlor epoxide. In addition, the dilutions required for the sample collected by Tetra Tech START during the removal action elevated the reporting limits for the pesticides. Tetra Tech START requested that the laboratory (Shealy) re-extract and reanalyze this sample to determine if the higher dilutions were warranted. Heptachlor epoxide was not detected in the reanalysis; however, the high dilutions were still required due to a high level of hydrocarbon interference in the sample. The initial analysis for this sample was reported because the re-extraction was performed outside of the 14-day extraction holding time. Some loss of pesticides may have occurred, affecting analysis of the re-extraction.

Sample bottles scheduled for SVOC analyses that had been collected as part of the tank and containment area equipment rinsate blank inadvertently broke during shipment. Because other aliquots submitted to the laboratory were preserved, no additional volume could be salvaged for SVOC analysis. Therefore, these analyses were not performed, and only the SVOC results obtained by Geosyntec are presented in the summary tables for comparison.

6.0 SUMMARY AND CONCLUSIONS

The BCX site located at 1903 East Adams Street in Jacksonville, Duval County, Florida, is a former used oil recycling and wastewater treatment facility that occupies 0.89 acre in an industrial and commercial area. The facility includes two sections: (1) a triangle-shaped concrete secondary containment area 7 feet high that encloses 23 ASTs, and (2) a fenced, vacant lot.

Unsuccessful attempts by BCX (lessee) to bring the facility into compliance led the facility to cease receiving waste oil, and, by May 2002, FDEP revoked the permit to operate that was held by IPS (owner and leaser). In June 2004, an inspector with the City of Jacksonville's Tanks Program observed an accumulation of liquid in the secondary containment area. FDEP and the City of Jacksonville obtained an emergency Temporary Injunction ordering BCX, IPS, and other PRPs to address the accumulated liquid, but were informed by BCX that it had insufficient funds to complete the task.

In July 2004, EPA directed WRS Infrastructure and Environment to collect samples from all ASTs at the facility. In addition, EPA directed WRS to pump out and dispose of the liquid contents within the secondary containment area. In December 2004 and again in August 2007, START conducted additional sampling at the site to further characterize the extent of the contamination.



Based on a December 2007 AOC entered into with EPA, the PRPs initiated a work plan to clean up and dispose of the remaining wastes in the secondary containment area, as well as the remaining ASTs. As requested by EPA, Tetra Tech START provided technical assistance during a removal action conducted by the PRPs at the BCX site from January 24 through July 24, 2008. This assistance included: providing oversight of Geosyntec and its contactors to ensure that activities were conducted in accordance with the AOC (dated October 10, 2007), as well as Geosyntec's approved Work Plan, Field Sampling Plan, Health and Safety Plan, and Quality Assurance Project Plan (dated December 7, 2007); documenting site conditions and removal activities with logbook notes and photographs; overseeing air monitoring; and conducting split sampling with Geosyntec.

During removal action activities, the following quantities of material were removed from the site and disposed of:

- 196,275.8 gallons of waste water transported to Water Recovery Inc. in Jacksonville, Florida.
- 94.60 tons of scrap metal transported to Berman Brothers, Inc., in Jacksonville, Florida
- Approximately 200 to 250 tons of scrap metal (Tanks 02, 107, and 107) removed by J&J Recycling and Demo, LLC
- 6.32 tons of miscellaneous site debris transported to Chesser Island Landfill in Folkston, Georgia.
- 1921.29 tons of stabilized/solidified AST material transported to Broadhurst Environmental Landfill in Jesup, Georgia.

On July 24, 2008, observations during the final site walk through satisfied the involved parties with the completion of removal activities and site conditions, and the removal action was declared complete.



APPENDIX A
PHOTOGRAPHIC LOG
(41 Pages)



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: North

Date: February 6, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Geosyntec Representatives

Subject: BCX Tank Removal (BCX) site during initial preparation phase prior to the major site removal work.





OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: North-northwest

Date: January 25, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Moran pumping secondary containment water into the Jacksonville Electric Authority (JEA) storm water drain. This operation took approximately one week.





**OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: West

Date: February 4, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Geosyntec Representatives

Subject: Inside secondary containment area after water was pumped into the JEA storm water drain.





OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northeast

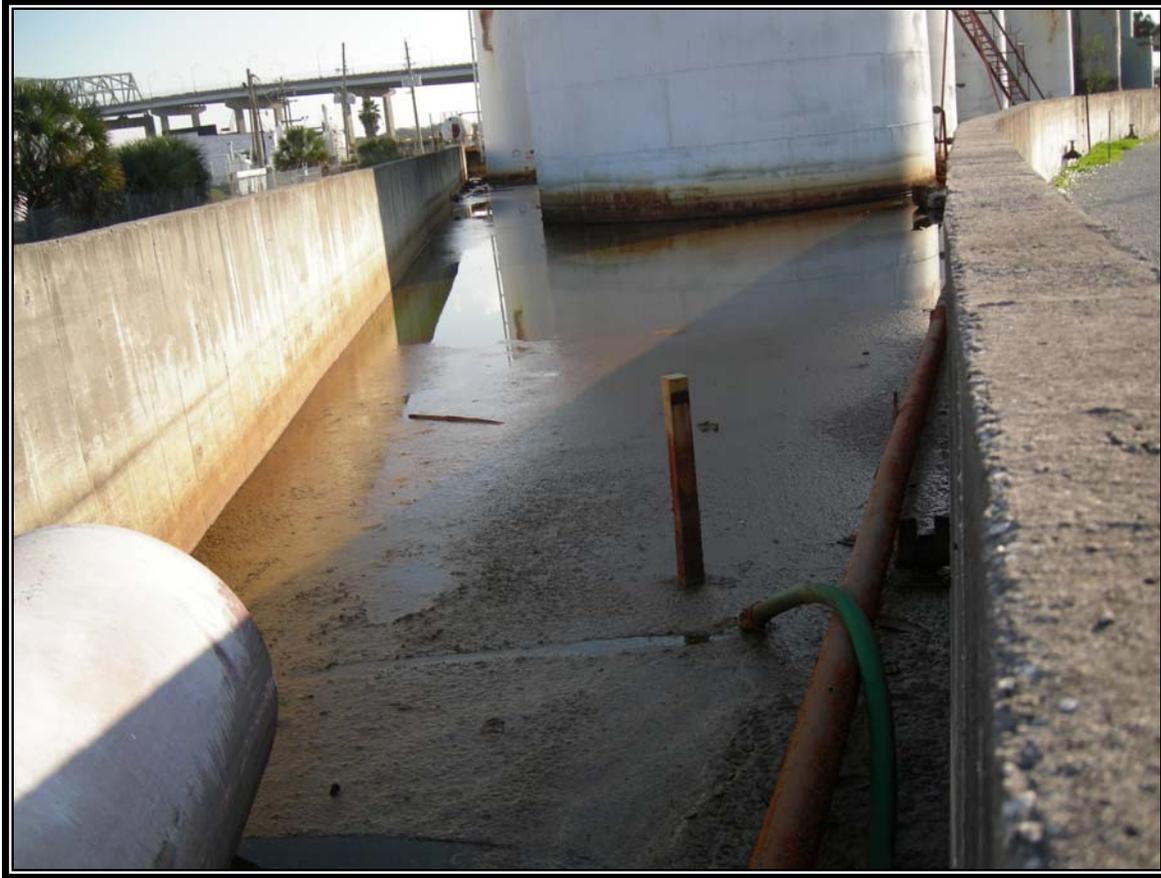
Date: February 4, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Geosyntec Representatives

Subject: Inside secondary containment area after water was pumped into the JEA storm water drain.





OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South

Date: February 4, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Geosyntec Representatives

Subject: Inside secondary containment area after water was pumped into the JEA storm water drain.





OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South-southwest

Date: February 4, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Geosyntec Representatives

Subject: Inside secondary containment area after water was pumped into the JEA storm water drain.





OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South-southwest

Date: February 6, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Moran Representatives

Subject: Pressure washing activities inside the secondary containment area.





OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: West

Date: February 7, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Moran Representatives

Subject: Squeegee operations inside the secondary containment area.





OFFICIAL PHOTOGRAPH NO. 9
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Southwest

Date: February 12, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Moran Representatives

Subject: Pressure washing activities inside the secondary containment area.





**OFFICIAL PHOTOGRAPH NO. 10
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Down

Date: February 11, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Geosyntec Representatives

Subject: Cleaner/degreaser used during pressure washing and decontamination activities.





**OFFICIAL PHOTOGRAPH NO. 11
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northwest

Date: February 8, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Geosyntec Representatives

Subject: JEA workers disconnecting power poles located near the tank and secondary containment area.





OFFICIAL PHOTOGRAPH NO. 12
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: East

Date: February 13, 2008

Photographer: Kyle Russell, Tetra Tech

Witness: Moran Representatives

Subject: Moran workers using a pneumatic metal nibbler to cut access holes in the side walls of the tanks.





**OFFICIAL PHOTOGRAPH NO. 13
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: East

Date: February 21, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Cold cutting process piping located between tanks.





OFFICIAL PHOTOGRAPH NO. 14
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: West

Date: February 21, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Geosyntec Representatives

Subject: Geosyntec representatives collecting waste samples from tank number 12.





OFFICIAL PHOTOGRAPH NO. 15
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Down

Date: February 21, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Geosyntec Representatives

Subject: Sample collected from tank number 12. Oily material was collected as well as a liquid component.





OFFICIAL PHOTOGRAPH NO. 16
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Down

Date: February 21, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Geosyntec Representatives

Subject: Aliquots collected for a composite sample from tank numbers 102 and 105.





OFFICIAL PHOTOGRAPH NO. 17
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South

Date: February 21, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Geosyntec Representatives

Subject: Process piping located at the temporary staging area. Pipe ends were wrapped with plastic to contain any material still in the pipe lengths.





OFFICIAL PHOTOGRAPH NO. 18
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northeast

Date: February 21, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Liquid transfer process from tank number 107 into a tanker scheduled for delivery to Water Recovery Inc. (WRI) for treatment.





OFFICIAL PHOTOGRAPH NO. 19
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South

Date: February 27, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Torch cutting operations performed on tank number 10 to free the top of this tank from its bottom portion to allow access to the waste material.





OFFICIAL PHOTOGRAPH NO. 20
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northeast

Date: February 25, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Top portion of tank number 109 being lifted free through the use of a crane and safety tag lines.





**OFFICIAL PHOTOGRAPH NO. 21
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: North

Date: February 25, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Geosyntec Representatives

Subject: Waste material remaining in tank number 109 (near) and 108 (far). Notice the white welders cloth laying on top of material used to reduce the potential for smoke and flare-ups during cutting operations.





OFFICIAL PHOTOGRAPH NO. 22
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: North

Date: February 27, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Tank bottoms covered to prevent rainwater infiltration.





**OFFICIAL PHOTOGRAPH NO. 23
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South

Date: February 27, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Moran workers performing dry decontamination the inside the top portion of a typical tank.





OFFICIAL PHOTOGRAPH NO. 24
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: North-northeast

Date: February 26, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Tank top loaded onto transport truck for scrap recycling at Berman Brothers, Inc., in Jacksonville, Florida.





**OFFICIAL PHOTOGRAPH NO. 25
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: North-northwest

Date: May 1, 2008

Photographer: Courtney Roden, Tetra Tech

Witness: Moran Representatives

Subject: Bed ash used to stabilize tank waste material.





OFFICIAL PHOTOGRAPH NO. 26
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Southeast

Date: February 27, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Waste material found inside tank number 14.





OFFICIAL PHOTOGRAPH NO. 27
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South-southeast

Date: May 1, 2008

Photographer: Courtney Roden, Tetra Tech

Witness: Moran Representatives

Subject: Bed ash mixed with waste material for solidification purposes.





**OFFICIAL PHOTOGRAPH NO. 28
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South-southwest

Date: April 30, 2008

Photographer: Courtney Roden, Tetra Tech

Witness: Moran Representatives

Subject: Moran workers torch cutting a tank bottom into smaller pieces.





OFFICIAL PHOTOGRAPH NO. 29
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Southwest

Date: May 1, 2008

Photographer: Courtney Roden, Tetra Tech

Witness: Moran Representatives

Subject: Tank number 12 was pushed on its side to speed the waste removal process.





**OFFICIAL PHOTOGRAPH NO. 30
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Southeast

Date: June 3, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Moran workers removing waste material from tank number 107.





**OFFICIAL PHOTOGRAPH NO. 31
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northeast

Date: June 3, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Solidified waste material staged in the north end of the containment area.





**OFFICIAL PHOTOGRAPH NO. 32
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: North

Date: June 4, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Moran Representatives

Subject: Loading solidified waste material into trucks for off-site disposal.





OFFICIAL PHOTOGRAPH NO. 33
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northeast

Date: June 3, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Geosyntec Representatives

Subject: Tank number 106 following removal of all the waste material.





**OFFICIAL PHOTOGRAPH NO. 34
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Southeast

Date: June 3, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Geosyntec Representatives

Subject: Tank number 02 following decontamination.





OFFICIAL PHOTOGRAPH NO. 35
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: North

Date: July 24, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Matt Huyser, EPA

Subject: BCX site during the final walk through. Metal bottoms for tank numbers 02, 106, and 107 were left in place and sealed with concrete.





OFFICIAL PHOTOGRAPH NO. 36
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: South-southeast

Date: July 24, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Matt Huyser, EPA

Subject: BCX site during the final walk through. The breach in the secondary containment wall was secured with a fence to prevent trespassing.





**OFFICIAL PHOTOGRAPH NO. 37
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northwest

Date: July 24, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Matt Huyser, EPA

Subject: BCX site during the final walk through. Some tank supports were left in place.





OFFICIAL PHOTOGRAPH NO. 38
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: West

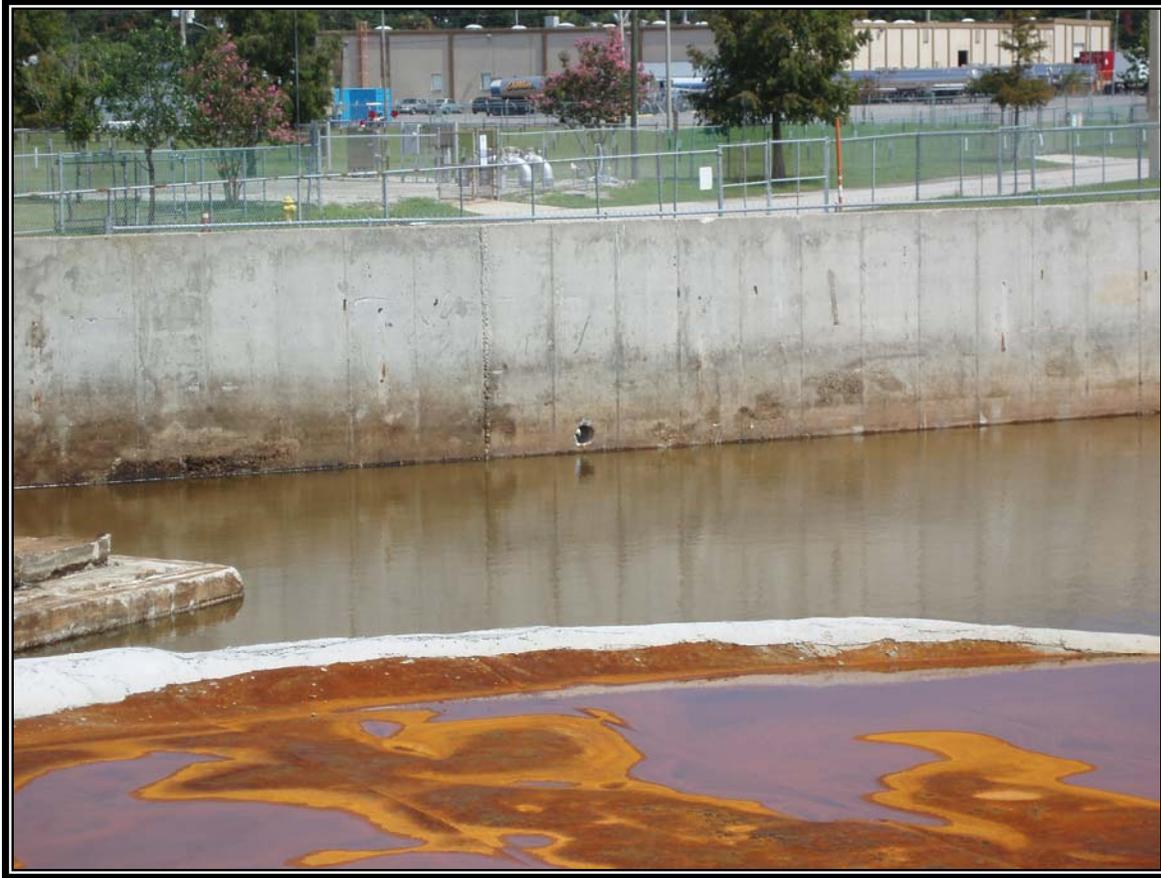
Date: July 24, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Matt Huyser, EPA

Subject: BCX site during the final walk through. Former pump station located in the corner was sealed with concrete.





OFFICIAL PHOTOGRAPH NO. 39
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northwest

Date: July 24, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Matt Huyser, EPA

Subject: Weep holes were opened in the secondary containment wall to allow for drainage.





**OFFICIAL PHOTOGRAPH NO. 40
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: East

Date: July 24, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Matt Huyser, EPA

Subject: Weep hole in secondary containment wall.





**OFFICIAL PHOTOGRAPH NO. 41
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: 1903 East Adams Street
Jacksonville, Florida

Orientation: Northeast

Date: July 24, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Matt Huyser, EPA

Subject: PRP representatives gathered at the site for the final site walk through.



APPENDIX B

TABLES

(38 Pages)

TABLE 1**PRE-REMOVAL TANK FARM INFORMATION
JACKSONVILLE, FLORIDA**

TANK NO.	MEASURED TANK DIAMETER (FEET)	MEASURED TANK HEIGHT (FEET)	CALCULATED TANK CAPACITY (GALLONS)	MEASURED PRODUCT HEIGHT (FEET)	TANK MATERIAL DESCRIPTION
2	55	35.3	627,367	11	Liquid / Sludge
10	10.5	25	16,193	4-5	Multi-colored, Clay-like Material.
12	10.5	20	12,955	9	Asphalt-like Material
13	10.5	20	12,955	2-3	Multi-colored, Sandy/silty, Cone bottom tank
14	10.5	25	16,193	3.7	Multi-colored, Clay-like Material, Large Dessication Cracks
15	10.5	25	16,193	3.7	Black, Oily, Sludge, May or May Not be Pumpable
16	10	25	14,688	2.7-3	Black, Oily, Sludge, Solid Crust, Non-pumpable
17	10.5	30	19,432	12.9	Gritty Thick Sludge with 10-Gallon Pool of Liquid
100	8	15.7	5,903	1.1	Black Oily Liquid
101	10.5	46.5	30,120	2.7	Solid Soil-like Material, Some Material Grease-like
102	11	25	17,772	3	Dark Brown Sludge, Sticky, Non-pumpable
103	11	25	17,772	2.7	Liquid / Sludge, Mostly Liquid, May be Pumpable
104	10.5	32	20,728	12.8	3.2 Feet Oily Liquid, 9.6 Feet Unknown Liquid then Sludge
105	11	25	17,772	3.2-3.7	Black Sludge, Sticky, Dessication Cracks
106	39	35.3	315,446	6.3	1.2 Feet Liquid, 5.1 Feet Solid
107	35.3	34.5	252,575	4.8	1.2 Feet Liquid, 3.6 Feet Black Sludge-like Material
108	10.5	32	20,728	3.3	Black, Sticky, Sludge, with Oily Liquid Layer on Top
109	11	17	12,085	2.7-3.7	Solid, Soil-like Material
110	3.5	10	720	1	Black Soil-like Material, Trees, Debris
111	3.75	12	991	0	Empty
112	4	11	1,034	0	Empty
113	3.5	8	576	0	Empty
114	3	10	529	1	Thick Black Sludge Material
115	3	10	529	2	Thick Black Sludge Material

TABLE 2

**NON-HAZARDOUS WASTEWATER QUANTITIES
WASTE RECOVERY INC.
JACKSONVILL, FLORIDA**

DATE	GALLONS	MANIFEST NO.	WRI APPROVAL NO.	DESCRIPTION
February 6, 2008	1274	283207	W-0569	Tanker Truck
February 7, 2008	1296.3	283307	W-0569	Tanker Truck
February 8, 2008	1833	283407	W-0569	Tanker Truck
	1794	283507	W-0569	Tanker Truck
	1364	283607	W-0569	Tanker Truck
February 13, 2008	1760	283707	W-0569	Tanker Truck
	1900	283807	W-0569	Tanker Truck
	1880	283907	W-0569	Tanker Truck
	6468	021308	W-0569	Tanker Truck
	1900	284007	W-0569	Tanker Truck
February 14, 2008	2200	284107	W-0569	Tanker Truck
	2068	284207	W-0569	Tanker Truck
	4860	021408	W-0569	Tanker Truck
February 15, 2008	880	284307	W-0569	Tanker Truck
February 18, 2008	1150	284407	W-0569	Tanker Truck
February 19, 2008	1950	284507	W-0569	Tanker Truck
February 20, 2008	1949.5	284607	W-0569	Tanker Truck
February 21, 2008	6000	022108DB	W-0571	Tanker Truck
February 22, 2008	2200	284707	W-0569	Tanker Truck
	2200	284807	W-0569	Tanker Truck
	2200	284907	W-0569	Tanker Truck
	2200	285007	W-0569	Tanker Truck
February 25, 2008	2200	285107	W-0569	Tanker Truck
	2200	285207	W-0569	Tanker Truck
	5000	285307	W-0569	Tanker Truck
	3749.5	285407	W-0569	Tanker Truck
February 27, 2008	2200	285507	W-0569	Tanker Truck
March 4, 2008	1500	285607	W-0569	Tanker Truck
March 5, 2008	3200	285707	W-0569	Tanker Truck
March 10, 2008	3200	285707-1	W-0569	Tanker Truck
	3200	285907	W-0569	Tanker Truck
	6000	285807	W-0569	Tanker Truck
	3200	286007	W-0569	Tanker Truck
	3200	286107	W-0569	Tanker Truck
	1000	286207	W-0569	Tanker Truck
March 11, 2008	2400	286307	W-0571	Tanker Truck

TABLE 2

**NON-HAZARDOUS WASTEWATER QUANTITIES
WASTE RECOVERY INC.
JACKSONVILL, FLORIDA**

DATE	GALLONS	MANIFEST NO.	WRI APPROVAL NO.	DESCRIPTION
April 2, 2008	3200	305107	W-0578	Tanker Truck
	3200	305207	W-0578	Tanker Truck
April 3, 2008		305307	700 Gallons Not Accepted	Tanker Truck
April 8, 2008	3700	305407	W-0569	Tanker Truck
	3700	305507	W-0569	Tanker Truck
	1800	305607	W-0569	Tanker Truck
April 29, 2008	3200	305707	W-0569	Tanker Truck
	3200	306007	W-0569	Tanker Truck
	3200	305907	W-0569	Tanker Truck
May 5, 2008	3200	306507	W-0578	Tanker Truck
May 15, 2008	1100	328607	W-0578	Tanker Truck
May 19, 2008	2000	330107	W-0569	Tanker Truck
May 27, 2008	2500	334607	W-0569	Tanker Truck
	2500	334507	W-0569	Tanker Truck
May 29, 2008	2500	335807	W-0569	Tanker Truck
June 3, 2008	2500	336707	W-0569	Tanker Truck
	2500	336607	W-0569	Tanker Truck
	2000	336807	W-0569	Tanker Truck
June 4, 2008	2500	336907	W-0569	Tanker Truck
June 6, 2008	1800	337907	W-0569	Tanker Truck
June 11, 2008	2500	338107	W-0569	Tanker Truck
	2500	338207	W-0569	Tanker Truck
June 12, 2008	5700	338307	W-0569	Tanker Truck
	2500	338507	W-0569	Tanker Truck
	2500	338407	W-0569	Tanker Truck
	2500	338607	W-0569	Tanker Truck
	2500	338707	W-0569	Tanker Truck
	2500	338807	W-0569	Tanker Truck
	2500	338907	W-0569	Tanker Truck
June 13, 2008	2500	339007	W-0569	Tanker Truck
June 16, 2008	5700	339307	W-0569	Tanker Truck
	2000	339107	W-0569	Tanker Truck
	6000	339207	W-0569	Tanker Truck
	6500	339407	W-0569	Tanker Truck
June 17, 2008	1600	339507	W-0569	Tanker Truck
June 19, 2008	1600	339607	W-0569	Tanker Truck
June 24, 2008	550	339707	W-0569	Tanker Truck
June 27, 2008	249.5	339807	W-0569	Tanker Truck
Totals	196,275.8			

TABLE 3

**SCRAP METAL RECYCLING QUANTITIES
BERMAN BROTHERS, INC.
JACKSONVILL, FLORIDA**

DATE	TONS	DESCRIPTION
February 21, 2008	3.84	20 yard ³ Roll-off
February 26, 2008	4.00	Tank 108 (top)
	1.70	Tank 109 (top)
February 27, 2008	18.09	Tank 101 (1st half)
		Tank 101 (2st half)
		Tank 10
		Tank 16
February 28, 2008	7.39	Tank 14
		Tank 15
		Tank 13
February 29, 2008	4.68	Tank 12
		Tank 17
March 3, 2008	8.39	Tank 103
		Tank 105
		Tank 104
March 4, 2008	4.80	Tank 102
		Tank Stairway
		Tank Walkway
March 10, 2008	4.84	20 yard ³ Roll-off
April 15, 2008	6.29	20 yard ³ Roll-off
April 17, 2008	3.90	20 yard ³ Roll-off
April 29, 2008	6.99	20 yard ³ Roll-off
May 9, 2008	7.29	20 yard ³ Roll-off
May 21, 2008	10.36	20 yard ³ Roll-off
June 27, 2008	2.04	20 yard ³ Roll-off
Totals	94.60	

TABLE 4

**NON-HAZARDOUS DEBRIS QUANTITIES
CHESSER ISLAND LANDFILL
FOLKSTON, GEORGIA**

DATE	TONS	MANIFEST NO.	CONTAINERS	WM APPROVAL NO.
February 22, 2008	2.68	291807	20 CY Rolloff	101942GA
April 22, 2008	2.02	305807	20 CY Rolloff	101942GA
June 11, 2008	1.62	338007	20 CY Rolloff	101942GA
Totals	6.32			

TABLE 5

**NON-HAZARDOUS TANK SOLID WASTE QUANTITIES
 BROADHURST ENVIRONMENTAL LANDFILL
 JESUP, GEORGIA
 PROFILE NO. 80452**

DATE	TONS	MANIFEST NO.	DESCRIPTION
April 24, 2008	11.76	319407	ACT #60; Box #R25514
	16.11	319507	MER #350; Box #RB2666RT
	4.96	319607	
April 25, 2008	13.75	319707	MER #350; Box #R2853RT
	5.89	319807	ACT #60; Box #R25456RT
	13.36	320107	MER #350; Box #R2909RT
	7.68	320007	ACT #60; Box #R25175RT
April 30, 2008	26.64	306107	WHIT104
	20.31	306207	WHIT113
	18.91	306307	OC101
	16.07	306407	OC105
May 6, 2008	21.7	306707	WHIT120
	23.18	306807	WHIT114
	17.66	306607	WHIT105
	17.92	306907	WHIT126
	19.7	307007	WHIT118
May 8, 2008	25.87	307107	WHIT113
	20.32	307207	WHIT121
	21.19	307307	WHIT105
	21.34	307407	WHIT126
	26.31	307507	WHIT118
	19.41	307607	WHIT109
May 12, 2008	26.00	307707	WHIT113
	23.47	307807	WHIT114
	19.54	307907	WHIT109
	21.75	308007	WHIT120
	18.55	308107	WHIT121
	28.09	327807	WHIT104
	21.59	308207	WHIT105
May 14, 2008	29.74	327907	WHIT113
	25.50	328007	WHIT126
	24.55	328107	WHIT121
	25.40	328207	WHIT109
	25.72	328307	WHIT114
	22.90	328407	WHIT120
	25.19	328507	WHIT105

TABLE 5

**NON-HAZARDOUS TANK SOLID WASTE QUANTITIES
 BROADHURST ENVIRONMENTAL LANDFILL
 JESUP, GEORGIA
 PROFILE NO. 80452**

DATE	TONS	MANIFEST NO.	DESCRIPTION
May 16, 2008	24.50	329307	WHIT113
	22.20	329107	WHIT121
	29.42	329207	WHIT104
	21.02	328907	WHIT126
	19.67	329007	WHIT127
	27.87	328707	WHIT114
	22.34	328807	WHIT120
May 19, 2008	24.29	329407	WHIT113
	19.59	329507	WHIT126
	23.99	329607	WHIT120
	27.07	329707	WHIT102
	19.10	329807	WHIT109
	22.50	329907	WHIT108
	25.33	330007	WHIT114
May 21, 2008	24.83	330207	WHIT108
	25.14	330307	WHIT113
	27.70	330407	WHIT114
	23.28	330507	WHIT126
	20.30	330607	WHIT109
	28.15	330707	WHIT102
	30.47	330807	WHIT104
	22.30	330907	WHIT120
May 22, 2008	24.80	331007	WHIT120
	23.20	334407	WHIT114
	17.21	334507	WHIT108
May 29, 2008	17.74	334707	WHIT121
	21.68	334807	WHIT102
	21.84	334407	WHIT120
	23.03	335007	WHIT114
	21.06	335107	WHIT105
	21.56	335207	WHIT109
May 30, 2008	19.38	335607	WHIT109
	23.39	335507	WHIT102
	26.09	335307	WHIT118
	23.91	335407	WHIT108
	24.85	335707	WHIT114
	24.21	335907	WHIT120

TABLE 5

**NON-HAZARDOUS TANK SOLID WASTE QUANTITIES
BROADHURST ENVIRONMENTAL LANDFILL
JESUP, GEORGIA
PROFILE NO. 80452**

DATE	TONS	MANIFEST NO.	DESCRIPTION
June 2, 2008	22.14	336007	WHIT108
	17.62	336107	WHIT126
	23.51	336207	WHIT102
	18.33	336307	WHIT109
	22.61	336407	WHIT118
June 4, 2008	17.94	337107	WHIT109
	19.71	337007	WHIT108
	21.41	337207	WHIT114
	26.16	337307	WHIT118
	22.47	337407	WHIT120
	19.62	336507	WHIT102
June 5, 2008	22.53	337607	WHIT109
	23.11	337507	WHIT102
	23.50	337707	WHIT108
June 6, 2008	17.14	337807	WHIT108
June 24, 2008	10.45	320207	MER
Totals	1921.29		

TABLE 6

PRP AIR MONITORING READINGS

Date	Time	Location	Multi-Gas Readings				
			H ₂ S	O ₂	VOCs	CO	LEL
2/12/2008	1130	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1145	NW Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1300	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1315	NW Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1400	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1415	NW Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1615	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1620	NW Corner of Containment	0.0	20.9	0.0	0.0	0.0
2/13/2008	845	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	855	SW Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1045	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1055	SW Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1615	SW Corner of Containment	0.0	21.3	0.0	0.0	0.0
	1620	Side Hole Tank 14	0.0	21.2	0.0	0.0	0.0
	1625	Side Hole Tank 10	0.0	21.2	0.0	0.0	0.0
2/14/2008	915	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	930	SW Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1415	SW Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1425	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1600	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1615	SW Corner of Containment	0.0	20.9	0.0	0.0	0.0
2/15/2008	945	SW Corner of Containment	0.0	21.3	0.0	6.0	0.0
	1100	SE Corner of Containment	0.0	20.9	0.0	8.0	0.0
	1115	SW Corner of Containment	0.0	20.9	0.1	7.0	0.0
	1540	SE Corner of Containment	0.0	20.9	0.0	0.0	0.0
	1545	SW Corner of Containment	0.0	20.9	0.0	0.0	0.0

TABLE 6

PRP AIR MONITORING READINGS

Date	Time	Location	Multi-Gas Readings				
			H ₂ S	O ₂	VOCs	CO	LEL
2/19/2008	0945	Side Hole Tank 15	0.0	20.9	0.0	0.0	0.0
2/21/2008	1029	Side Hole Tank 12	0.0	21.2	NA	1.0	0.0
	1122	Side Hole Tank 105	0.0	21.4	NA	1.0	0.0
	1124	Side Hole Tank 102	0.0	21.4	NA	1.0	0.0
	1142	Side Hole Tank 110	0.0	21.4	NA	1.0	0.0
	1220	Side Hole Tank 17	0.0	21.4	NA	1.0	0.0
6/3/2008	1000	Perimeter of Containment	0.0	20.9	0.0	0.0	0.0
	1100	Side Hole Tank 02	0.0	20.9	0.0	0.0	0.0
	1330	Side Hole Tank 106	0.0	20.9	≤ 1.3	≤ 0.1	0.0
	1400	Side Hole Tank 107	0.0	20.9	≤ 0.2	≤ 2.0	0.0
	1400	Inside Tank 107 (just above product)	0.0	20.9	≤ 0.9	≤ 2.0	0.0

- Notes:
- CO Carbon monoxide
 - H₂S Hydrogen sulfide
 - LEL Lower explosive limit
 - O₂ Oxygen gas
 - NA Sensor was not available in gas meter used.
 - VOC Volatile organic compound

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T12			
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	T12-PR-01	TK12-SD-01	T12-PR-01DUP	TK212-SD-01
Sample Designation:	T12-PR-01	TK12-SD-01	T12-PR-01DUP	TK212-SD-01
Sample Collection Date:	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Volatile Organic Compounds	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
1,1,1-Trichloroethane	670 U	160 U	600 U	120 U
1,1,2,2-Tetrachloroethane	670 U	210 U	600 U	160 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	670 U	NA	600 U	NA
1,1,2-Trichloroethane	670 U	160 U	600 U	120 U
1,1-Dichloroethane	670 U	180 U	600 U	140 U
1,1-Dichloroethene/1,1-Dichloroethylene	670 U	160 U	600 U	120 U
1,2,4-Trichlorobenzene*	670 U	8,500 U	600 U	5,000 U
1,2-Dibromo-3-chloropropane	670 U	NA	600 U	NA
1,2-Dibromoethane	670 U	NA	600 U	NA
1,2-Dichlorobenzene*	670 U	8,500 U	600 U	5,000 U
1,2-Dichloroethane	670 U	160 U	600 U	120 U
1,2-Dichloropropane	670 U	210 U	600 U	160 U
1,3-Dichlorobenzene*	670 U	8,500 U	600 U	5,000 U
1,4-Dichlorobenzene*	670 U	8,500 U	600 U	5,000 U
2-Butanone/Methyl ethyl ketone	1,200 J	1,600 U	1,000 J	1,200 U
2-Hexanone	1,300 U	1,600 U	1,200 U	1,200 U
4-Methyl-2-pentanone	2,800 J	1,600 U	1,600 J	1,200 U
Acetone	2,700 UJ	4,000 U	5,400 J	3,390 I
Benzene	670 U	160 U	600 U	120 U
Bromodichloromethane	670 U	160 U	600 U	120 U
Bromoform	670 U	160 U	600 U	120 U
Bromomethane/Methyl bromide	670 U	290 U	600 U	220 U
Carbon disulfide	2,700 J	461 I	1,600 J	768
Carbon tetrachloride	670 U	210 U	600 U	160 U
Chlorobenzene	670 U	160 U	600 U	120 U
Chloroethane	670 U	410 U	600 U	320 U
Chloroform	670 U	160 U	600 U	120 U
Chloromethane/Methyl chloride	670 U	320 U	600 U	250 U
cis-1,2-Dichloroethene/cis-1,2-Dichloroethylene	670 U	160 U	600 U	120 U
cis-1,3-Dichloropropene	670 U	160 U	600 U	120 U
Cyclohexane	670 U	NA	600 U	NA
Dibromochloromethane	670 U	160 U	600 U	120 U
Dichlorodifluoromethane	670 U	NA	600 U	NA
Ethylbenzene	3,800 J	1,450	1,400 J	2,520
Isopropylbenzene	1,300 J	NA	600 UJ	NA
Methyl acetate	670 U	NA	600 U	NA
Methyl tertiary butyl ether (MTBE)	670 U	NA	600 U	NA
Methylcyclohexane	670 U	NA	600 U	NA
Methylene chloride	670 U	1,920 JV	600 U	1,270 V
Styrene	670 U	160 U	600 U	120 U
Tetrachloroethene/Tetrachloroethylene	670 U	200 I	600 U	513 I
Toluene	6,100 J	1,490	2,600 J	3,340
trans-1,2-Dichloroethene/ trans-1,2-Dichloroethylene	670 U	160 U	600 U	120 U
trans-1,3-Dichloropropene	670 U	160 U	600 U	120 U
Trichloroethene/Trichloroethylene	670 U	160 U	600 U	120 U
Trichlorofluoromethane	670 U	NA	600 U	NA
Vinyl chloride	670 U	220 U	600 U	170 U
Xylenes (total)	18,000 J	8,370	6,900 J	14,100
Semivolatiles Organic Compounds	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
1,1'-Biphenyl	14,000 U	NA	14,000 U	NA
2,4,5-Trichlorophenol	14,000 U	8,500 U	14,000 U	5,000 U
2,4,6-Trichlorophenol	14,000 U	8,500 U	14,000 U	5,000 U
2,4-Dichlorophenol	14,000 U	8,500 U	14,000 U	5,000 U
2,4-Dimethylphenol	14,000 U	8,500 U	14,000 U	5,000 U
2,4-Dinitrophenol	36,000 U	85,000 U	36,000 U	50,000 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T12			
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	T12-PR-01	TK12-SD-01	T12-PR-01DUP	TK212-SD-01
Sample Designation:	T12-PR-01	TK12-SD-01	T12-PR-01DUP	TK212-SD-01
Sample Collection Date:	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Semivolatiles Organic Compounds (cont'd)	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
2,4-Dinitrotoluene	14,000 U	8,500 U	14,000 U	5,000 U
2,6-Dinitrotoluene	14,000 U	8,500 U	14,000 U	5,000 U
2-Chloronaphthalene	14,000 U	8,500 U	14,000 U	5,000 U
2-Chlorophenol	14,000 U	8,500 U	14,000 U	5,000 U
2-Methylnaphthalene	330,000	338,000	380,000	217,000
2-Methylphenol	14,000 U	8,500 U	14,000 U	5,000 U
2-Nitroaniline	14,000 U	17,000 U	14,000 U	10,000 U
2-Nitrophenol	14,000 U	8,500 U	14,000 U	5,000 U
3 & 4-Methylphenol	29,000 U	8,500 U	29,000 U	5,790 I
3,3'-Dichlorobenzidine	36,000 U	17,000 U	36,000 U	10,000 U
3-Nitroaniline	14,000 U	17,000 U	14,000 U	10,000 U
4,6-Dinitro-2-methylphenol/4,6-Dintro-2-cresol	36,000 U	17,000 U	36,000 U	10,000 U
4-Bromophenyl phenyl ether	14,000 U	8,500 U	14,000 U	5,000 U
4-Chloro-3-methylphenol	14,000 U	8,500 U	14,000 U	5,000 U
4-Chloroaniline	14,000 U	17,000 U	14,000 U	10,000 U
4-Chlorophenyl phenyl ether	14,000 U	8,500 U	14,000 U	5,000 U
4-Nitroaniline	14,000 U	17,000 U	14,000 U	10,000 U
4-Nitrophenol	36,000 U	85,000 U	36,000 U	50,000 U
Acenaphthene	14,000 U	22,600 I	14,000 U	13,400 I
Acenaphthylene	14,000 U	10,800 I	14,000 U	5,740 I
Acetophenone	14,000 U	NA	14,000 U	NA
Anthracene	150,000	24,600 I	140,000	13,600 I
Atrazine	14,000 U	NA	14,000 U	NA
Benzaldehyde	36,000 U	NA	36,000 U	NA
Benzo(a)anthracene	14,000 U	8,500 U	14,000 U	5,000 U
Benzo(a)pyrene	14,000 U	8,500 U	14,000 U	5,000 U
Benzo(b)fluoranthene	14,000 U	8,500 U	14,000 U	5,000 U
Benzo(g,h,i)perylene	14,000 U	8,500 U	14,000 U	5,000 U
Benzo(k)fluoranthene	14,000 U	8,500 U	14,000 U	5,000 U
Benzoic acid	NA	85,000 U	NA	50,000 U
Benzyl alcohol	NA	8,500 U	NA	5,000 U
bis(2-Chloroethoxy)methane	14,000 U	8,500 U	14,000 U	5,000 U
bis(2-Chloroethyl)ether	14,000 U	8,500 U	14,000 U	5,000 U
bis(2-Chloroisopropyl)ether	14,000 U	8,500 U	14,000 U	5,000 U
bis(2-Ethylhexyl)phthalate	110,000	140,000	110,000	76,400 I
Butyl benzyl phthalate	48,000	46,900 I	48,000	26,000 I
Caprolactam	36,000 U	NA	36,000 U	NA
Carbazole	14,000 U	9,940 I	14,000 U	5,000 U
Chrysene	14,000 U	8,500 U	14,000 U	5,000 U
Dibenzo(a,h)anthracene	14,000 U	8,500 U	14,000 U	5,000 U
Dibenzofuran	14,000 U	22,700 I	14,000 U	12,900 I
Diethylphthalate	14,000 U	42,000 U	14,000 U	25,000 U
Dimethyl phthalate	14,000 U	21,000 U	14,000 U	13,000 U
Di-n-butyl phthalate	14,000 U	21,000 U	14,000 U	13,000 U
Di-n-octylphthalate	14,000 U	21,000 U	14,000 U	13,000 U
Fluoranthene	14,000 U	10,600 I	14,000 U	5,650 I
Fluorene	14,000 U	71,500	14,000 U	40,900
Hexachlorobenzene	14,000 U	8,500 U	14,000 U	5,000 U
Hexachlorobutadiene	14,000 U	8,500 U	14,000 U	5,000 U
Hexachlorocyclopentadiene	36,000 U	8,500 U	36,000 U	5,000 U
Hexachloroethane	14,000 U	8,500 U	14,000 U	5,000 U
Indeno(1,2,3-c,d)pyrene	14,000 U	8,500 U	14,000 U	5,000 U
Isophorone	14,000 U	8,500 U	14,000 U	5,000 U
Naphthalene	66,000	66,700	84,000	46,800
Nitrobenzene	14,000 U	8,500 U	14,000 U	5,000 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T12			
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	T12-PR-01	TK12-SD-01	T12-PR-01DUP	TK212-SD-01
Sample Designation:	T12-PR-01	TK12-SD-01	T12-PR-01DUP	TK212-SD-01
Sample Collection Date:	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Semivolatile Organic Compounds (cont'd)	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
N-Nitrosodi-n-propylamine	14,000 U	8,500 U	14,000 U	5,000 U
N-Nitrosodiphenylamine/Diphenylamine	14,000 U	73,100	14,000 U	40,900
Pentachlorophenol	36,000 U	85,000 U	36,000 U	50,000 U
Phenanthrene	150,000	129,000	140,000	70,900
Phenol	14,000 U	8,500 U	14,000 U	5,000 U
Pyrene	14,000 U	25,700 I	14,000 U	13,700 I
Chlorinated Pesticides	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
4,4'-DDD	190 U	380 U	180 U	380 U
4,4'-DDE	190 U	380 U	180 U	380 U
4,4'-DDT	190 U	430 U	180 U	430 U
Aldrin	190 U	230 U	180 U	230 U
alpha-BHC	190 U	260 U	180 U	260 U
alpha-Chlordane	190 U	190 U	180 U	190 U
beta-BHC	410 J	250 U	180 UJ	240 U
delta-BHC	190 U	410 U	180 U	410 U
Dieldrin	190 U	210 U	180 U	210 U
Endosulfan I	190 U	210 U	180 U	210 U
Endosulfan II	190 U	280 U	180 U	280 U
Endosulfan sulfate	190 U	620 U	180 U	620 U
Endrin	190 U	380 U	180 U	380 U
Endrin aldehyde	190 U	570 U	180 U	570 U
Endrin ketone	190 U	380 U	180 U	380 U
gamma-BHC (Lindane)	190 U	320 U	180 U	320 U
gamma-Chlordane	190 U	210 U	180 U	210 U
Heptachlor	190 U	260 U	180 U	260 U
Heptachlor epoxide	190 U	190 U	180 U	190 U
Methoxychlor	740 U	380 U	720 U	380 U
Toxaphene	9,200 U	24,000 U	8,900 U	24,000 U
Polychlorinated Biphenyls	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
Aroclor-1016	750 U	1,200 U	360 U	1,200 U
Aroclor-1221	750 U	1,900 U	360 U	1,900 U
Aroclor-1232	750 U	1,900 U	360 U	1,900 U
Aroclor-1242	750 U	1,200 U	360 U	1,200 U
Aroclor-1248	750 U	1,200 U	360 U	1,200 U
Aroclor-1254	750 U	1,200 U	360 U	1,200 U
Aroclor-1260	750 U	1,200 U	360 U	1,200 U
Aroclor-1262	750 U	NA	360 U	NA
Aroclor-1268	750 U	NA	360 U	NA
Metals	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight
Aluminum	31,000	14,600	27,000	20,000
Antimony	6.5	8.0	7.2	9.5
Arsenic	6.9	2.6	5.4	3.5
Barium	460	261	440	288
Beryllium	0.30 J	0.071 U	0.29 J	0.070 U
Cadmium	8.9	5.3	9.2	5.9
Calcium	19,000	10,400	14,000	9,570
Chromium	100	68.4	89	56.6
Cobalt	15	8.9	11	8.2
Copper	1,200	894	1,000	684
Iron	42,000	36,300	27,000	19,700
Lead	110	80.3	88	66.8
Magnesium	7,400	4,140	6,200	4,360
Manganese	240	177	170	122
Mercury	0.31	0.27	0.27	0.27
Nickel	180	143	160	126

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T12			
Company Sampling:	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Sample Designation:	T12-PR-01	TK12-SD-01	T12-PR-01DUP	TK212-SD-01
Sample Collection Date:	21-Feb-08	21-Feb-08	21-Feb-08	21-Feb-08
Metals (cont'd)	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight
Potassium	3,700	2,120	3,000	2,530
Selenium	3.1 J	9.2	2.9	6.1 I
Silver	0.70 J	0.85	0.65 J	0.64 I
Sodium	50,000	26,300	44,000	33,600
Thallium	2.8 U	0.40 U	1.7 U	0.39 U
Vanadium	76	42.2	71	50.8
Zinc	2,400	1,720	2,000	1,510

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T13		T101	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	T13-PR-01	TK13-SD-01	T101-PR-01	TK101-SD-01
Sample Designation:	T13-PR-01	TK13-SD-01	T101-PR-01	TK101-SD-01
Sample Collection Date:	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08
Volatile Organic Compounds	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
1,1,1-Trichloroethane	1,400 U	100 U	1,200 UJ	180 U
1,1,2,2-Tetrachloroethane	1,400 U	130 U	1,200 UJ	240 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	1,400 U	NA	1,200 UJ	NA
1,1,2-Trichloroethane	1,400 U	100 U	1,200 UJ	180 U
1,1-Dichloroethane	1,400 U	110 U	1,200 UJ	200 U
1,1-Dichloroethene/1,1-Dichloroethylene	1,400 U	100 U	1,200 UJ	180 U
1,2,4-Trichlorobenzene*	1,400 U	5,400 U	1,200 UJ	7,900 U
1,2-Dibromo-3-chloropropane	1,400 U	NA	1,200 UJ	NA
1,2-Dibromoethane	1,400 U	NA	1,200 UJ	NA
1,2-Dichlorobenzene*	1,400 U	5,400 U	1,200 UJ	7,900 U
1,2-Dichloroethane	1,400 U	100 U	1,200 UJ	180 U
1,2-Dichloropropane	1,400 U	130 U	1,200 UJ	240 U
1,3-Dichlorobenzene*	1,400 U	5,400 U	1,200 UJ	7,900 U
1,4-Dichlorobenzene*	1,400 U	5,400 U	1,200 UJ	7,900 U
2-Butanone/Methyl ethyl ketone	2,800 U	1,000 U	2,400 UJ	1,800 U
2-Hexanone	2,800 U	1,000 U	2,400 UJ	1,800 U
4-Methyl-2-pentanone	1,600 J	4,160	3,000 J	1,800 U
Acetone	5,600 U	2,500 U	4,800 UJ	4,500 U
Benzene	530 J	1,660	940 J	342 I
Bromodichloromethane	1,400 U	100 U	1,200 UJ	180 U
Bromoform	1,400 U	100 U	1,200 UJ	180 U
Bromomethane/Methyl bromide	1,400 U	180 U	1,200 UJ	330 U
Carbon disulfide	1,400 U	100 U	1,200 UJ	180 U
Carbon tetrachloride	1,400 U	130 U	1,200 UJ	240 U
Chlorobenzene	1,400 U	100 U	1,200 UJ	180 U
Chloroethane	1,400 U	260 U	1,200 UJ	470 U
Chloroform	1,400 U	100 U	1,200 UJ	180 U
Chloromethane/Methyl chloride	1,400 U	200 U	1,200 UJ	360 U
cis-1,2-Dichloroethene/cis-1,2-Dichloroethylene	1,400 U	100 U	1,200 UJ	180 U
cis-1,3-Dichloropropene	1,400 U	100 U	1,200 UJ	180 U
Cyclohexane	1,400 U	NA	1,200 UJ	NA
Dibromochloromethane	1,400 U	100 U	1,200 UJ	180 U
Dichlorodifluoromethane	1,400 U	NA	1,200 UJ	NA
Ethylbenzene	9,700	26,100	7,300 J	4,350
Isopropylbenzene	3,100	NA	1,800 J	NA
Methyl acetate	1,400 U	NA	1,200 UJ	NA
Methyl tertiary butyl ether (MTBE)	250 J	NA	380 J	NA
Methylcyclohexane	620 J	NA	820 J	NA
Methylene chloride	1,400 U	923 IV	1,200 UJ	1,490 IV
Styrene	1,400 U	963	1,200 UJ	180 U
Tetrachloroethene/Tetrachloroethylene	1,400 U	1,980	3,100 J	2,010
Toluene	16,000	42,600	17,000 J	7,560
trans-1,2-Dichloroethene/ trans-1,2-Dichloroethylene	1,400 U	100 U	1,200 UJ	180 U
trans-1,3-Dichloropropene	1,400 U	100 U	1,200 UJ	180 U
Trichloroethene/Trichloroethylene	1,400 U	201 I	1,200 UJ	180 U
Trichlorofluoromethane	1,400 U	NA	1,200 UJ	NA
Vinyl chloride	1,400 U	140 U	1,200 UJ	250 U
Xylenes (total)	57,000	158000	47,000 J	26,900
Semivolatile Organic Compounds	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
1,1'-Biphenyl	8,500 U	NA	61,000	NA
2,4,5-Trichlorophenol	8,500 U	5,400 U	15,000 U	7,900 U
2,4,6-Trichlorophenol	8,500 U	5,400 U	15,000 U	7,900 U
2,4-Dichlorophenol	8,500 U	5,400 U	15,000 U	7,900 U
2,4-Dimethylphenol	8,500 U	5,400 U	15,000 U	7,900 U
2,4-Dinitrophenol	21,000 U	54,000 U	38,000 U	79,000 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T13		T101	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	T13-PR-01	TK13-SD-01	T101-PR-01	TK101-SD-01
Sample Designation:	T13-PR-01	TK13-SD-01	T101-PR-01	TK101-SD-01
Sample Collection Date:	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08
Semivolatile Organic Compounds (cont'd)	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
2,4-Dinitrotoluene	8,500 U	5,400 U	15,000 U	7,900 U
2,6-Dinitrotoluene	8,500 U	5,400 U	15,000 U	7,900 U
2-Chloronaphthalene	8,500 U	5,400 U	15,000 U	7,900 U
2-Chlorophenol	8,500 U	5,400 U	15,000 U	7,900 U
2-Methylnaphthalene	190,000	256,000	240,000	408,000
2-Methylphenol	8,500 U	5,400 U	15,000 U	7,900 U
2-Nitroaniline	8,500 U	11,000 U	15,000 U	16,000 U
2-Nitrophenol	8,500 U	5,400 U	15,000 U	7,900 U
3 & 4-Methylphenol	17,000 U	5,400 U	30,000 U	7,900 U
3,3'-Dichlorobenzidine	21,000 U	11,000 U	38,000 U	16,000 U
3-Nitroaniline	8,500 U	11,000 U	15,000 U	16,000 U
4,6-Dinitro-2-methylphenol/4,6-Dintro-2-cresol	21,000 U	11,000 U	38,000 U	16,000 U
4-Bromophenyl phenyl ether	8,500 U	5,400 U	15,000 U	7,900 U
4-Chloro-3-methylphenol	8,500 U	5,400 U	15,000 U	7,900 U
4-Chloroaniline	8,500 U	11,000 U	15,000 U	16,000 U
4-Chlorophenyl phenyl ether	8,500 U	5,400 U	15,000 U	7,900 U
4-Nitroaniline	8,500 U	11,000 U	15,000 U	16,000 U
4-Nitrophenol	21,000 U	54,000 U	38,000 U	79,000 U
Acenaphthene	23,000	18,700 I	49,000	36,000 I
Acenaphthylene	8,500 U	5,400 U	15,000 U	7,900 U
Acetophenone	8,500 U	NA	15,000 U	NA
Anthracene	40,000	38,400	45,000	19,700 I
Atrazine	8,500 U	NA	15,000 U	NA
Benzaldehyde	21,000 U	NA	38,000 U	NA
Benzo(a)anthracene	5,600 J	7,710 I	21,000	21,000 I
Benzo(a)pyrene	8,500 U	5,400 U	14,000 J	11,300 I
Benzo(b)fluoranthene	8,500 U	5,400 U	15,000 U	7,900 U
Benzo(g,h,i)perylene	8,500 U	5,400 U	16,000	19,300 I
Benzo(k)fluoranthene	8,500 U	5,400 U	15,000 U	7,900 U
Benzoic acid	NA	54,000 U	NA	79,000 U
Benzyl alcohol	NA	5,400 U	NA	7,900 U
bis(2-Chloroethoxy)methane	8,500 U	5,400 U	15,000 U	7,900 U
bis(2-Chloroethyl)ether	8,500 U	5,400 U	15,000 U	7,900 U
bis(2-Chloroisopropyl)ether	8,500 U	5,400 U	15,000 U	7,900 U
bis(2-Ethylhexyl)phthalate	48,000	59,700	38,000	39,000 U
Butyl benzyl phthalate	75,000	61,900	98,000	94,400
Caprolactam	21,000 U	NA	38,000 U	NA
Carbazole	8,500 U	25,800 I	15,000 U	10,900 I
Chrysene	10,000	11,700 I	27,000	32,000 I
Dibenzo(a,h)anthracene	8,500 U	5,400 U	15,000 U	7,900 U
Dibenzofuran	8,500 U	16,000 I	15,000 U	12,900 I
Diethylphthalate	8,500 U	27,000 U	15,000 U	39,000 U
Dimethyl phthalate	8,500 U	14,000 U	15,000 U	20,000 U
Di-n-butyl phthalate	8,500 U	22,500 I	15,000 U	20,000 U
Di-n-octylphthalate	8,500 U	14,000 U	15,000 U	20,000 U
Fluoranthene	14,000	16,000 I	15,000 U	12,700 I
Fluorene	32,000	39,100	54,000	56,000
Hexachlorobenzene	8,500 U	5,400 U	15,000 U	7,900 U
Hexachlorobutadiene	8,500 U	5,400 U	15,000 U	7,900 U
Hexachlorocyclopentadiene	21,000 U	5,400 U	38,000 U	7,900 U
Hexachloroethane	8,500 U	5,400 U	15,000 U	7,900 U
Indeno(1,2,3-c,d)pyrene	8,500 U	5,400 U	15,000 U	7,900 U
Isophorone	8,500 U	5,400 U	15,000 U	7,900 U
Naphthalene	63,000	90,100	150,000	144,000
Nitrobenzene	8,500 U	5,400 U	15,000 U	7,900 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T13		T101	
Company Sampling:	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Sample Designation:	T13-PR-01	TK13-SD-01	T101-PR-01	TK101-SD-01
Sample Collection Date:	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08
Semivolatile Organic Compounds (cont'd)	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
N-Nitrosodi-n-propylamine	8,500 U	5,400 U	15,000 U	7,900 U
N-Nitrosodiphenylamine/Diphenylamine	8,500 U	31,300	15,000 U	7,900 U
Pentachlorophenol	21,000 U	54,000 U	38,000 U	79,000 U
Phenanthrene	94,000	98,400	180,000	162,000
Phenol	3,000 J	6,220 I	15,000 U	7,900 U
Pyrene	26,000	23,700 I	73,000	60,900
Chlorinated Pesticides	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
4,4'-DDD	170 J	180 U	74 J	190 U
4,4'-DDE	220 U	180 U	150 U	190 U
4,4'-DDT	220 U	210 U	150 U	220 U
Aldrin	220 U	110 U	140 J	120 U
alpha-BHC	110 J	130 U	100 J	140 U
alpha-Chlordane	220 U	92 U	28 J	97 U
beta-BHC	220 U	120 U	150 U	130 U
delta-BHC	220 U	200 U	150 U	210 U
Dieldrin	220 U	100 U	150 U	110 U
Endosulfan I	220 U	100 U	150 U	110 U
Endosulfan II	87 J	140 U	58 J	150 U
Endosulfan sulfate	220 U	300 U	71 J	320 U
Endrin	110 J	180 U	60 J	190 U
Endrin aldehyde	330 J	280 U	120 J	290 U
Endrin ketone	220 U	180 U	77 J	190 U
gamma-BHC (Lindane)	1,700 J	160 U	150 U	160 U
gamma-Chlordane	220 U	100 U	150 U	110 U
Heptachlor	1,500 J	130 U	54 J	140 U
Heptachlor epoxide	1,900 J	92 U	100 J	97 U
Methoxychlor	860 U	180 U	600 U	190 U
Toxaphene	11,000 U	12,000 U	7,400 U	12,000 U
Polychlorinated Biphenyls	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
Aroclor-1016	110 U	580 U	380 U	610 U
Aroclor-1221	110 U	920 U	380 U	970 U
Aroclor-1232	110 U	920 U	380 U	970 U
Aroclor-1242	110 U	580 U	380 U	610 U
Aroclor-1248	110 U	580 U	380 U	610 U
Aroclor-1254	110 U	580 U	380 U	610 U
Aroclor-1260	110 U	580 U	380 U	610 U
Aroclor-1262	110 U	NA	380 U	NA
Aroclor-1268	110 U	NA	380 U	NA
Metals	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight
Aluminum	16,000	16,500	40,000	40,300
Antimony	12	16.3	16	14.8
Arsenic	0.84	13.2	10	11.7
Barium	140	369	520	413
Beryllium	0.31	0.46	0.26 J	0.55 I
Cadmium	4.6	7.0	9.0	6.8
Calcium	18,000	13,400	11,000	9,480
Chromium	160	107	60	58.0
Cobalt	14	13.4	9.4	8.8
Copper	1,900	2,380	640	611
Iron	130,000	116,000	15,000	16,800
Lead	350 J	365	86 J	89.7
Magnesium	2,700	2,240	6,800	6,270
Manganese	630	617	130	129
Mercury	0.11 U	1.2	0.20	0.25
Nickel	190 J	154	160 J	133

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T13		T101	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	T13-PR-01	TK13-SD-01	T101-PR-01	TK101-SD-01
Sample Designation:	T13-PR-01	TK13-SD-01	T101-PR-01	TK101-SD-01
Sample Collection Date:	15-Feb-08	15-Feb-08	15-Feb-08	15-Feb-08
Metals (cont'd)	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight
Potassium	1,300	2,080	4,900	6,170
Selenium	0.65 U	3.5 I	3.0	3.5 I
Silver	0.86 J	2.2	0.57 UJ	0.19 I
Sodium	28,000	38,600	77,000	81,400
Thallium	18	3.9 U	1.6 J	0.71 U
Vanadium	110	127	240	247
Zinc	3,100 J	3,450	1,800 J	2,070

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T104		T114/T115	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:				
Sample Designation:	T104-PR-01	TK104-SD-01	T114/115-PR-01	TD114115-SD-01
Sample Collection Date:	04-Mar-08	04-Mar-08	20-Feb-08	20-Feb-08
Volatile Organic Compounds	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
1,1,1-Trichloroethane	5,100 UJ	2,300 U	34,000 UJ	1,300 U
1,1,2,2-Tetrachloroethane	5,100 UJ	3,000 U	34,000 UJ	1,700 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5,100 UJ	NA	34,000 UJ	NA
1,1,2-Trichloroethane	2,900 J	2,300 U	34,000 UJ	1,300 U
1,1-Dichloroethane	5,100 UJ	2,500 U	34,000 UJ	1,400 U
1,1-Dichloroethene/1,1-Dichloroethylene	5,100 UJ	2,300 U	34,000 UJ	1,300 U
1,2,4-Trichlorobenzene*	5,100 UJ	240,000 U	34,000 UJ	6,900 U
1,2-Dibromo-3-chloropropane	5,100 UJ	NA	34,000 UJ	NA
1,2-Dibromoethane	5,100 UJ	NA	34,000 UJ	NA
1,2-Dichlorobenzene*	5,100 UJ	240,000 U	34,000 UJ	6,900 U
1,2-Dichloroethane	5,100 UJ	2,300 U	34,000 UJ	1,300 U
1,2-Dichloropropane	5,100 UJ	3,000 U	34,000 UJ	1,700 U
1,3-Dichlorobenzene*	5,100 UJ	240,000 U	34,000 UJ	6,900 U
1,4-Dichlorobenzene*	5,100 UJ	240,000 U	34,000 UJ	6,900 U
2-Butanone/Methyl ethyl ketone	10,000 UJ	23,000 U	69,000 UJ	13,000 U
2-Hexanone	10,000 UJ	23,000 U	69,000 UJ	13,000 U
4-Methyl-2-pentanone	10,000 UJ	23,000 U	69,000 UJ	13,000 U
Acetone	2,300 J	57,000 U	140,000 UJ	32,000 U
Benzene	3,000 J	24,200	57,000 J	61,400
Bromodichloromethane	5,100 UJ	2,300 U	34,000 UJ	1,300 U
Bromoform	5,100 UJ	2,300 U	34,000 UJ	1,300 U
Bromomethane/Methyl bromide	5,100 UJ	4,100 U	34,000 UJ	2,300 U
Carbon disulfide	5,100 UJ	2,300 U	34,000 UJ	1,300 U
Carbon tetrachloride	5,100 UJ	3,000 U	34,000 UJ	1,700 U
Chlorobenzene	5,100 UJ	2,300 U	34,000 UJ	1,300 U
Chloroethane	5,100 UJ	5,900 U	34,000 UJ	3,400 U
Chloroform	5,100 UJ	2,300 U	34,000 UJ	1,300 U
Chloromethane/Methyl chloride	5,100 UJ	4,500 U	34,000 UJ	2,600 U
cis-1,2-Dichloroethene/cis-1,2-Dichloroethylene	5,100 UJ	2,300 U	34,000 UJ	1,300 U
cis-1,3-Dichloropropene	5,100 UJ	2,300 U	34,000 UJ	1,300 U
Cyclohexane	7,000 J	NA	34,000 UJ	NA
Dibromochloromethane	5,100 UJ	2,300 U	34,000 UJ	1,300 U
Dichlorodifluoromethane	5,100 UJ	NA	34,000 UJ	NA
Ethylbenzene	18,000 J	105,000	210,000 J	210,000
Isopropylbenzene	5,100 J	NA	41,000 J	NA
Methyl acetate	5,100 UJ	NA	34,000 UJ	NA
Methyl tertiary butyl ether (MTBE)	5,100 UJ	NA	12,000 J	NA
Methylcyclohexane	4,100 J	NA	37,000 J	NA
Methylene chloride	5,100 UJ	55,400 V	34,000 UJ	21,500 V
Styrene	5,100 UJ	2,300 U	22,000 J	25,800 I
Tetrachloroethene/Tetrachloroethylene	3,000 J	18,000	31,000 J	44,900
Toluene	52,000 J	353,000	700,000 J	699,000
trans-1,2-Dichloroethene/ trans-1,2-Dichloroethylene	5,100 UJ	2,300 U	34,000 UJ	1,300 U
trans-1,3-Dichloropropene	5,100 UJ	2,300 U	34,000 UJ	1,300 U
Trichloroethene/Trichloroethylene	5,100 UJ	2,300 U	34,000 UJ	5,870 I
Trichlorofluoromethane	5,100 UJ	NA	34,000 UJ	NA
Vinyl chloride	5,100 UJ	3,200 U	34,000 UJ	1,800 U
Xylenes (total)	97,000 J	575,000	1,100,000 J	1,080,000
Semivolatile Organic Compounds	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
1,1'-Biphenyl	96,000 J	NA	160,000 J	NA
2,4,5-Trichlorophenol	9,100 U	240,000 U	59,000 UJ	6,900 U
2,4,6-Trichlorophenol	9,100 U	240,000 U	59,000 UJ	6,900 U
2,4-Dichlorophenol	9,100 U	240,000 U	59,000 UJ	6,900 U
2,4-Dimethylphenol	9,100 U	240,000 U	59,000 UJ	6,900 U
2,4-Dinitrophenol	23,000 U	2,400,000 U	150,000 UJ	69,000 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T104		T114/T115	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:				
Sample Designation:	T104-PR-01	TK104-SD-01	T114/115-PR-01	TD114115-SD-01
Sample Collection Date:	04-Mar-08	04-Mar-08	20-Feb-08	20-Feb-08
Semivolatile Organic Compounds (cont'd)	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
2,4-Dinitrotoluene	9,100 U	240,000 U	59,000 UJ	6,900 U
2,6-Dinitrotoluene	9,100 U	240,000 U	59,000 UJ	6,900 U
2-Chloronaphthalene	9,100 U	240,000 U	59,000 UJ	6,900 U
2-Chlorophenol	9,100 U	240,000 U	59,000 UJ	6,900 U
2-Methylnaphthalene	580,000 J	1,120,000 I	940,000 J	414,000
2-Methylphenol	9,100 U	240,000 U	59,000 UJ	6,900 U
2-Nitroaniline	9,100 U	480,000 U	59,000 UJ	14,000 U
2-Nitrophenol	9,100 U	240,000 U	59,000 UJ	6,900 U
3 & 4-Methylphenol	18,000 U	240,000 U	120,000 UJ	10,300 I
3,3'-Dichlorobenzidine	23,000 U	480,000 U	150,000 UJ	14,000 U
3-Nitroaniline	9,100 U	480,000 U	59,000 UJ	14,000 U
4,6-Dinitro-2-methylphenol/4,6-Dintro-2-cresol	23,000 U	480,000 U	150,000 UJ	14,000 U
4-Bromophenyl phenyl ether	9,100 U	240,000 U	59,000 UJ	6,900 U
4-Chloro-3-methylphenol	9,100 U	240,000 U	59,000 UJ	6,900 U
4-Chloroaniline	9,100 U	480,000 U	59,000 UJ	14,000 U
4-Chlorophenyl phenyl ether	9,100 U	240,000 U	59,000 UJ	6,900 U
4-Nitroaniline	9,100 U	480,000 U	59,000 UJ	14,000 U
4-Nitrophenol	23,000 U	2,400,000 U	150,000 UJ	69,000 U
Acenaphthene	9,100 U	240,000 U	59,000 UJ	24,900 I
Acenaphthylene	9,100 U	240,000 U	59,000 UJ	11,100 I
Acetophenone	9,100 U	NA	59,000 UJ	NA
Anthracene	150,000 J	240,000 U	87,000 J	45,600
Atrazine	9,100 U	NA	59,000 UJ	NA
Benzaldehyde	23,000 U	NA	150,000 UJ	NA
Benzo(a)anthracene	9,600 J	240,000 U	59,000 UJ	9,810 I
Benzo(a)pyrene	9,100 U	240,000 U	59,000 UJ	6,900 U
Benzo(b)fluoranthene	9,100 U	240,000 U	59,000 UJ	6,900 U
Benzo(g,h,i)perylene	9,100 U	240,000 U	59,000 UJ	6,900 U
Benzo(k)fluoranthene	9,100 U	240,000 U	59,000 UJ	6,900 U
Benzoic acid	NA	2,400,000 U	NA	69,000 U
Benzyl alcohol	NA	240,000 U	NA	6,900 U
bis(2-Chloroethoxy)methane	9,100 U	240,000 U	59,000 UJ	6,900 U
bis(2-Chloroethyl)ether	9,100 U	240,000 U	59,000 UJ	6,900 U
bis(2-Chloroisopropyl)ether	9,100 U	240,000 U	59,000 UJ	6,900 U
bis(2-Ethylhexyl)phthalate	170,000 J	1,200,000 U	160,000 J	71,300
Butyl benzyl phthalate	9,100 U	600,000 U	61,000 J	26,000 I
Caprolactam	23,000 U	NA	150,000 UJ	NA
Carbazole	9,100 U	240,000 U	110,000 J	54,000
Chrysene	14,000 J	240,000 U	59,000 UJ	14,100 I
Dibenzo(a,h)anthracene	9,100 U	240,000 U	59,000 UJ	6,900 U
Dibenzofuran	9,100 U	240,000 U	59,000 UJ	22,800 I
Diethylphthalate	9,100 U	1,200,000 U	59,000 UJ	35,000 U
Dimethyl phthalate	9,100 U	600,000 U	59,000 UJ	17,000 U
Di-n-butyl phthalate	42,000 J	600,000 U	59,000 UJ	17,000 U
Di-n-octylphthalate	9,100 U	600,000 U	59,000 UJ	17,000 U
Fluoranthene	9,100 U	240,000 U	44,000 J	21,200 I
Fluorene	9,100 U	240,000 U	120,000 J	58,400
Hexachlorobenzene	9,100 U	240,000 U	59,000 UJ	6,900 U
Hexachlorobutadiene	9,100 U	240,000 U	59,000 UJ	6,900 U
Hexachlorocyclopentadiene	23,000 U	240,000 U	150,000 UJ	6,900 U
Hexachloroethane	9,100 U	240,000 U	59,000 UJ	6,900 U
Indeno(1,2,3-c,d)pyrene	9,100 U	240,000 U	59,000 UJ	6,900 U
Isophorone	9,100 U	240,000 U	59,000 UJ	6,900 U
Naphthalene	150,000 J	394,000 I	380,000 J	172,000
Nitrobenzene	9,100 U	240,000 U	59,000 UJ	6,900 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T104		T114/T115	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	T104-PR-01	TK104-SD-01	T114/115-PR-01	TD114115-SD-01
Sample Designation:	T104-PR-01	TK104-SD-01	T114/115-PR-01	TD114115-SD-01
Sample Collection Date:	04-Mar-08	04-Mar-08	20-Feb-08	20-Feb-08
Semivolatile Organic Compounds (cont'd)	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
N-Nitrosodi-n-propylamine	9,100 U	240,000 U	59,000 UJ	6,900 U
N-Nitrosodiphenylamine/Diphenylamine	9,100 U	240,000 U	59,000 UJ	49,000
Pentachlorophenol	23,000 U	2,400,000 U	150,000 UJ	69,000 U
Phenanthrene	9,100 U	240,000 U	280,000 J	115,000
Phenol	9,100 U	240,000 U	36,000 J	22,000 I
Pyrene	9,100 U	240,000 U	80,000 J	29,000 I
Chlorinated Pesticides	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
4,4'-DDD	930 U	950 U	120 UJ	110 U
4,4'-DDE	930 U	950 U	120 UJ	110 U
4,4'-DDT	930 U	1,100 U	120 UJ	120 U
Aldrin	930 U	570 U	120 UJ	65 U
alpha-BHC	930 U	670 U	120 UJ	75 U
alpha-Chlordane	930 U	480 U	120 UJ	54 U
beta-BHC	260 J	620 U	120 UJ	70 U
delta-BHC	930 U	1,000 U	120 UJ	120 U
Dieldrin	930 U	520 U	120 UJ	59 U
Endosulfan I	930 U	520 U	120 UJ	59 U
Endosulfan II	930 U	710 U	120 UJ	81 U
Endosulfan sulfate	930 U	1,600 U	120 UJ	180 U
Endrin	930 U	950 U	120 UJ	110 U
Endrin aldehyde	930 U	1,400 U	120 UJ	160 U
Endrin ketone	930 U	950 U	120 UJ	110 U
gamma-BHC (Lindane)	930 U	810 U	120 UJ	91 U
gamma-Chlordane	1900 U	520 U	120 UJ	59 U
Heptachlor	930 U	670 U	120 UJ	75 U
Heptachlor epoxide	930 U	480 U	120 UJ	54 U
Methoxychlor	3700 U	950 U	490 UJ	110 U
Toxaphene	45,000 U	60,000 U	6,100 6,700	6700 U
Polychlorinated Biphenyls	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight	µg/kg, dry weight
Aroclor-1016	920 U	6,000 U	1,300 UJ	13,000 U
Aroclor-1221	920 U	9,500 U	1,300 UJ	22,000 U
Aroclor-1232	920 U	9,500 U	1,300 UJ	22,000 U
Aroclor-1242	920 U	6,000 U	1,300 UJ	13,000 U
Aroclor-1248	920 U	6,000 U	1,300 UJ	13,000 U
Aroclor-1254	920 U	6,000 U	1,300 UJ	13,000 U
Aroclor-1260	920 U	6,000 U	1,300 UJ	13,000 U
Aroclor-1262	920 U	6,000	1,300 UJ	NA
Aroclor-1268	920 U	NA	1,300 UJ	NA
Metals	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight
Aluminum	9,500	9,160	9,700	9,380
Antimony	3.7 J	3.6 I	3.7 U	12.5
Arsenic	6.9 U	4.7	19	15.1
Barium	190	168	440 J	412
Beryllium	0.40 U	0.42 I	0.60	0.10 I
Cadmium	3.4	2.2	6.8	6.5
Calcium	7,300	15,700	17,000	18,800
Chromium	50	38.6	140	111
Cobalt	7.5 J	5.8	22	21.3
Copper	710	690	4,900	4,400
Iron	67,000	51,600	34,000	32,400
Lead	72	82.9	770	811
Magnesium	2,200 J	2,320	1,800	1,880
Manganese	170	259	240	243
Mercury	0.30	0.18	1.4 J	1.1
Nickel	93	71.8	140	125

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Tank Number:	T104		T114/T115	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	T104-PR-01	TK104-SD-01	T114/115-PR-01	TD114115-SD-01
Sample Designation:	T104-PR-01	TK104-SD-01	T114/115-PR-01	TD114115-SD-01
Sample Collection Date:	04-Mar-08	04-Mar-08	20-Feb-08	20-Feb-08
Metals (cont'd)	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight	mg/kg, dry weight
Potassium	2,300 J	2,860	420	477 I
Selenium	6.9 U	4.8 I	1.7 J	6.9 I
Silver	3.4 U	0.6 I	5.2	3.1
Sodium	25,000	24,000	2,300	3,460
Thallium	11 J	3.7	2.7 J	0.79 I
Vanadium	66	55.5	260	217
Zinc	2,400	2,110	3,600	4,360

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Equipment Rinsate Blanks		Field Blank
	Tetra Tech	Geosyntec	Tetra Tech
Company Sampling:	BCX-EB-01	EB-AQ-01	BCX-FL-01
Sample Designation:	BCX-EB-01	EB-AQ-01	BCX-FL-01
Sample Collection Date:	15-Feb-08	15-Feb-08	15-Feb-08
Volatile Organic Compounds	µg/L	µg/L	µg/L
1,1,1-Trichloroethane	5.0 U	0.29 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	0.37 U	5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	NA	5.0 U
1,1,2-Trichloroethane	5.0 U	0.30 U	5.0 U
1,1-Dichloroethane	5.0 U	0.25 U	5.0 U
1,1-Dichloroethene/1,1-Dichloroethylene	5.0 U	0.23 U	5.0 U
1,2,4-Trichlorobenzene*	5.0 U	1.5 U	5.0 U
1,2-Dibromo-3-chloropropane	5.0 U	NA	5.0 U
1,2-Dibromoethane	5.0 U	NA	5.0 U
1,2-Dichlorobenzene*	5.0 U	1.5 U	5.0 U
1,2-Dichloroethane	5.0 U	0.20 U	5.0 U
1,2-Dichloropropane	5.0 U	0.25 U	5.0 U
1,3-Dichlorobenzene*	5.0 U	1.6 U	5.0 U
1,4-Dichlorobenzene*	5.0 U	1.5 U	5.0 U
2-Butanone/Methyl ethyl ketone	10 U	2.0 U	10 U
2-Hexanone	10 U	2.9 U	10 U
4-Methyl-2-pentanone	10 U	2.2 U	10 U
Acetone	20 U	10 U	20 U
Benzene	5.0 U	0.20 U	5.0 U
Bromodichloromethane	5.0 U	0.29 U	5.0 U
Bromoform	5.0 U	0.28 U	5.0 U
Bromomethane/Methyl bromide	5.0 U	0.54 U	5.0 U
Carbon disulfide	5.0 U	0.20 U	5.0 U
Carbon tetrachloride	5.0 U	0.29 U	5.0 U
Chlorobenzene	5.0 U	0.20 U	5.0 U
Chloroethane	5.0 U	0.46 U	5.0 U
Chloroform	5.0 U	0.21 U	5.0 U
Chloromethane/Methyl chloride	5.0 U	0.38 U	5.0 U
cis-1,2-Dichloroethene/cis-1,2-Dichloroethylene	5.0 U	0.28 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	0.24 U	5.0 U
Cyclohexane	5.0 U	NA	5.0 U
Dibromochloromethane	5.0 U	0.20 U	5.0 U
Dichlorodifluoromethane	5.0 U	NA	5.0 U
Ethylbenzene	5.0 U	0.20 U	5.0 U
Isopropylbenzene	5.0 U	NA	5.0 U
Methyl acetate	5.0 U	NA	5.0 U
Methyl tertiary butyl ether (MTBE)	5.0 U	NA	5.0 U
Methylcyclohexane	5.0 U	NA	5.0 U
Methylene chloride	5.0 U	1.0 U	5.0 U
Styrene	5.0 U	0.20 U	5.0 U
Tetrachloroethene/Tetrachloroethylene	5.0 U	0.25 U	5.0 U
Toluene	5.0 U	0.27 U	5.0 U
trans-1,2-Dichloroethene/ trans-1,2-Dichloroethylene	5.0 U	0.20 U	5.0 U
trans-1,3-Dichloropropene	5.0 U	0.21 U	5.0 U
Trichloroethene/Trichloroethylene	5.0 U	0.38 U	5.0 U
Trichlorofluoromethane	5.0 U	NA	5.0 U
Vinyl chloride	2.0 U	0.34 U	2.0 U
Xylenes (total)	5.0 U	0.56 U	5.0 U
Semivolatile Organic Compounds	µg/L	µg/L	µg/L
1,1'-Biphenyl	5.0 U	NA	5.0 U
2,4,5-Trichlorophenol	5.0 U	1.0 U	5.0 U
2,4,6-Trichlorophenol	5.0 U	1.0 U	5.0 U
2,4-Dichlorophenol	5.0 U	1.0 U	5.0 U
2,4-Dimethylphenol	5.0 U	2.0 U	5.0 U
2,4-Dinitrophenol	25 U	10 U	25 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Equipment Rinsate Blanks		Field Blank
	Tetra Tech	Geosyntec	Tetra Tech
Company Sampling:	BCX-EB-01	EB-AQ-01	BCX-FL-01
Sample Designation:	BCX-EB-01	EB-AQ-01	BCX-FL-01
Sample Collection Date:	15-Feb-08	15-Feb-08	15-Feb-08
Semivolatile Organic Compounds (cont'd)	µg/L	µg/L	µg/L
2,4-Dinitrotoluene	10 U	1.0 U	10 U
2,6-Dinitrotoluene	10 U	1.0 U	10 U
2-Chloronaphthalene	5.0 U	1.3 U	5.0 U
2-Chlorophenol	5.0 U	1.0 U	5.0 U
2-Methylnaphthalene	5.0 U	1.0 U	5.0 U
2-Methylphenol	5.0 U	1.0 U	5.0 U
2-Nitroaniline	10 U	2.0 U	10 U
2-Nitrophenol	10 U	1.0 U	10 U
3 & 4-Methylphenol	10 U	1.3 U	10 U
3,3'-Dichlorobenzidine	25 U	2.0 U	25 U
3-Nitroaniline	10 U	2.0 U	10 U
4,6-Dinitro-2-methylphenol/4,6-Dintro-2-cresol	25 U	2.0 U	25 U
4-Bromophenyl phenyl ether	5.0 U	1.2 U	5.0 U
4-Chloro-3-methylphenol	5.0 U	2.0 U	5.0 U
4-Chloroaniline	5.0 U	2.0 U	5.0 U
4-Chlorophenyl phenyl ether	5.0 U	1.3 U	5.0 U
4-Nitroaniline	10 U	2.0 U	10 U
4-Nitrophenol	25 U	10 U	25 U
Acenaphthene	5.0 U	1.4 U	5.0 U
Acenaphthylene	5.0 U	1.1 U	5.0 U
Acetophenone	5.0 U	NA	5.0 U
Anthracene	5.0 U	1.0 U	5.0 U
Atrazine	5.0 U	NA	5.0 U
Benzaldehyde	25 U	NA	25 U
Benzo(a)anthracene	5.0 U	1.0 U	5.0 U
Benzo(a)pyrene	5.0 U	1.0 U	5.0 U
Benzo(b)fluoranthene	5.0 U	1.0 U	5.0 U
Benzo(g,h,i)perylene	5.0 U	1.0 U	5.0 U
Benzo(k)fluoranthene	5.0 U	1.0 U	5.0 U
Benzoic acid	NA	10 U	NA
Benzyl alcohol	NA	1.0 U	NA
bis(2-Chloroethoxy)methane	5.0 U	1.0 U	5.0 U
bis(2-Chloroethyl)ether	5.0 U	1.0 U	5.0 U
bis(2-Chloroisopropyl)ether	5.0 U	1.0 U	5.0 U
bis(2-Ethylhexyl)phthalate	5.0 U	2.0 U	5.0 U
Butyl benzyl phthalate	10 U	2.0 U	10 U
Caprolactam	25 U	NA	25 U
Carbazole	5.0 U	1.0 U	5.0 U
Chrysene	5.0 U	1.0 U	5.0 U
Dibenzo(a,h)anthracene	5.0 U	1.0 U	5.0 U
Dibenzofuran	5.0 U	1.0 U	5.0 U
Diethylphthalate	5.0 U	2.0 U	5.0 U
Dimethyl phthalate	5.0 U	2.0 U	5.0 U
Di-n-butyl phthalate	5.0 U	2.0 U	5.0 U
Di-n-octylphthalate	5.0 U	2.0 U	5.0 U
Fluoranthene	5.0 U	1.0 U	5.0 U
Fluorene	5.0 U	1.2 U	5.0 U
Hexachlorobenzene	5.0 U	1.2 U	5.0 U
Hexachlorobutadiene	5.0 U	1.7 U	5.0 U
Hexachlorocyclopentadiene	25 U	1.5 U	25 U
Hexachloroethane	5.0 U	1.9 U	5.0 U
Indeno(1,2,3-c,d)pyrene	5.0 U	1.0 U	5.0 U
Isophorone	5.0 U	1.0 U	5.0 U
Naphthalene	5.0 U	1.2 U	5.0 U
Nitrobenzene	5.0 U	1.0 U	5.0 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Equipment Rinsate Blanks		Field Blank
	Tetra Tech	Geosyntec	Tetra Tech
Company Sampling:	BCX-EB-01	EB-AQ-01	BCX-FL-01
Sample Designation:	BCX-EB-01	EB-AQ-01	BCX-FL-01
Sample Collection Date:	15-Feb-08	15-Feb-08	15-Feb-08
Semivolatile Organic Compounds (cont'd)	µg/L	µg/L	µg/L
N-Nitrosodi-n-propylamine	5.0 U	1.0 U	5.0 U
N-Nitrosodiphenylamine/Diphenylamine	5.0 U	1.0 U	5.0 U
Pentachlorophenol	25 U	10 U	25 U
Phenanthrene	5.0 U	1.0 U	5.0 U
Phenol	5.0 U	2.0 U	5.0 U
Pyrene	5.0 U	1.0 U	5.0 U
Chlorinated Pesticides	µg/L	µg/L	µg/L
4,4'-DDD	0.025 U	0.020 U	0.025 U
4,4'-DDE	0.025 U	0.020 U	0.025 U
4,4'-DDT	0.025 U	0.020 U	0.025 U
Aldrin	0.025 U	0.0098 U	0.025 U
alpha-BHC	0.025 U	0.0098 U	0.025 U
alpha-Chlordane	0.025 U	0.0098 U	0.025 U
beta-BHC	0.34 U	0.011 U	0.61 U
delta-BHC	0.025 U	0.0098 U	0.025 U
Dieldrin	0.025 U	0.0098 U	0.025 U
Endosulfan I	0.025 U	0.0098 U	0.025 U
Endosulfan II	0.025 U	0.0098 U	0.025 U
Endosulfan sulfate	0.025 U	0.020 U	0.025 U
Endrin	0.025 U	0.020 U	0.025 U
Endrin aldehyde	0.025 U	0.029 U	0.025 U
Endrin ketone	0.025 U	0.020 U	0.025 U
gamma-BHC (Lindane)	0.025 U	0.0098 U	0.025 U
gamma-Chlordane	0.025 U	0.0098 U	0.025 U
Heptachlor	0.025 U	0.0098 U	0.025 U
Heptachlor epoxide	0.025 U	0.0098 U	0.025 U
Methoxychlor	0.10 U	0.020 U	0.10 U
Toxaphene	0.25 U	1.2 U	0.25 U
Polychlorinated Biphenyls	µg/L	µg/L	µg/L
Aroclor-1016	0.25 U	0.25 U	0.25 U
Aroclor-1221	0.25 U	0.39 U	0.25 U
Aroclor-1232	0.25 U	0.39 U	0.25 U
Aroclor-1242	0.25 U	0.25 U	0.25 U
Aroclor-1248	0.25 U	0.25 U	0.25 U
Aroclor-1254	0.25 U	0.25 U	0.25 U
Aroclor-1260	0.25 U	0.25 U	0.25 U
Aroclor-1262	0.25 U	NA	0.25 U
Aroclor-1268	0.25 U	NA	0.25 U
Metals	mg/L	mg/L	mg/L
Aluminum	0.20 U	79 U	0.20 U
Antimony	0.010 U	6.6 U	0.010 U
Arsenic	0.010 U	3.7 U	0.010 U
Barium	0.025 U	5.0 U	0.025 U
Beryllium	0.0040 U	1.0 U	0.0040 U
Cadmium	0.0020 U	1.0 U	0.0020 U
Calcium	5.0 U	280 I	5.0 U
Chromium	0.0050 U	1.9 I	0.0050 U
Cobalt	0.025 U	1.0 U	0.025 U
Copper	0.0040 J	5.1 I	0.0050 U
Iron	0.10 U	19.7 I	0.10 U
Lead	0.010 U	2.8 I	0.010 U
Magnesium	5.0 U	100 U	5.0 U
Manganese	0.015 U	1.6 I	0.015 U
Mercury	0.00010 U	0.11 U	0.00010 U
Nickel	0.040 U	1.3 I	0.040 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Equipment Rinsate Blanks		Field Blank
	Tetra Tech	Geosyntec	Tetra Tech
Company Sampling:	BCX-EB-01	EB-AQ-01	BCX-FL-01
Sample Designation:	15-Feb-08	15-Feb-08	15-Feb-08
Sample Collection Date:			
Metals (cont'd)	mg/L	mg/L	mg/L
Potassium	5.0 U	2,560 I	5.0 U
Selenium	0.010 U	4.0 U	0.010 U
Silver	0.0050 U	0.77 U	0.0050 U
Sodium	5.0 U	3,190 I	5.0 U
Thallium	0.0057 U	6.5 U	0.0074 U
Vanadium	0.050 U	1.1 U	0.050 U
Zinc	0.028 J	80.7	0.020 U

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Trip Blank		Trip Blank	
	Tetra Tech	Tetra Tech	Geosyntec	
Company Sampling:	BCX-TS-02	BCX-TS-03	TB-AQ-01	
Sample Designation:	15-Feb-08	20-Feb-08	20-Feb-08	
Sample Collection Date:				
Volatile Organic Compounds	µg/L	µg/L	µg/L	
1,1,1-Trichloroethane	5.0 U	5.0 U	0.29 U	
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	0.37 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	5.0 U	NA	
1,1,2-Trichloroethane	5.0 U	5.0 U	0.30 U	
1,1-Dichloroethane	5.0 U	5.0 U	0.25 U	
1,1-Dichloroethene/1,1-Dichloroethylene	5.0 U	5.0 U	0.23 U	
1,2,4-Trichlorobenzene*	5.0 U	5.0 U	NA	
1,2-Dibromo-3-chloropropane	5.0 U	5.0 U	NA	
1,2-Dibromoethane	5.0 U	5.0 U	NA	
1,2-Dichlorobenzene*	5.0 U	5.0 U	NA	
1,2-Dichloroethane	5.0 U	5.0 U	0.20 U	
1,2-Dichloropropane	5.0 U	5.0 U	0.25 U	
1,3-Dichlorobenzene*	5.0 U	5.0 U	NA	
1,4-Dichlorobenzene*	5.0 U	5.0 U	NA	
2-Butanone/Methyl ethyl ketone	10 U	10 U	2.0 U	
2-Hexanone	10 U	10 U	2.9 U	
4-Methyl-2-pentanone	10 U	10 U	2.2 U	
Acetone	20 U	20 U	10 U	
Benzene	5.0 U	5.0 U	0.20 U	
Bromodichloromethane	5.0 U	5.0 U	0.29 U	
Bromoform	5.0 U	5.0 U	0.28 U	
Bromomethane/Methyl bromide	5.0 U	5.0 U	0.54 U	
Carbon disulfide	5.0 U	5.0 U	0.20 U	
Carbon tetrachloride	5.0 U	5.0 U	0.29 U	
Chlorobenzene	5.0 U	5.0 U	0.20 U	
Chloroethane	5.0 U	5.0 U	0.46 U	
Chloroform	5.0 U	5.0 U	0.21 U	
Chloromethane/Methyl chloride	5.0 U	5.0 U	0.38 U	
cis-1,2-Dichloroethene/cis-1,2-Dichloroethylene	5.0 U	5.0 U	0.28 U	
cis-1,3-Dichloropropene	5.0 U	5.0 U	0.24 U	
Cyclohexane	5.0 U	5.0 U	NA	
Dibromochloromethane	5.0 U	5.0 U	0.20 U	
Dichlorodifluoromethane	5.0 U	5.0 U	NA	
Ethylbenzene	5.0 U	5.0 U	0.20 U	
Isopropylbenzene	5.0 U	5.0 U	NA	
Methyl acetate	5.0 U	5.0 U	NA	
Methyl tertiary butyl ether (MTBE)	5.0 U	5.0 U	NA	
Methylcyclohexane	5.0 U	5.0 U	NA	
Methylene chloride	5.0 U	5.0 U	1.0 U	
Styrene	5.0 U	5.0 U	0.20 U	
Tetrachloroethene/Tetrachloroethylene	5.0 U	5.0 U	0.25 U	
Toluene	5.0 U	5.0 U	0.27 U	
trans-1,2-Dichloroethene/ trans-1,2-Dichloroethylene	5.0 U	5.0 U	0.20 U	
trans-1,3-Dichloropropene	5.0 U	5.0 U	0.21 U	
Trichloroethene/Trichloroethylene	5.0 U	5.0 U	0.38 U	
Trichlorofluoromethane	5.0 U	5.0 U	NA	
Vinyl chloride	2.0 U	2.0 U	0.34 U	
Xylenes (total)	5.0 U	5.0 U	0.56 U	
Semivolatile Organic Compounds				
1,1'-Biphenyl	NA	NA	NA	
2,4,5-Trichlorophenol	NA	NA	NA	
2,4,6-Trichlorophenol	NA	NA	NA	
2,4-Dichlorophenol	NA	NA	NA	
2,4-Dimethylphenol	NA	NA	NA	
2,4-Dinitrophenol	NA	NA	NA	

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Trip Blank	
	Tetra Tech	Geosyntec
Company Sampling:	Tetra Tech	Geosyntec
Sample Designation:	BCX-TS-02	TB-AQ-01
Sample Collection Date:	15-Feb-08	20-Feb-08
Semivolatile Organic Compounds (cont'd)		
2,4-Dinitrotoluene	NA	NA
2,6-Dinitrotoluene	NA	NA
2-Chloronaphthalene	NA	NA
2-Chlorophenol	NA	NA
2-Methylnaphthalene	NA	NA
2-Methylphenol	NA	NA
2-Nitroaniline	NA	NA
2-Nitrophenol	NA	NA
3 & 4-Methylphenol	NA	NA
3,3'-Dichlorobenzidine	NA	NA
3-Nitroaniline	NA	NA
4,6-Dinitro-2-methylphenol/4,6-Dintro-2-cresol	NA	NA
4-Bromophenyl phenyl ether	NA	NA
4-Chloro-3-methylphenol	NA	NA
4-Chloroaniline	NA	NA
4-Chlorophenyl phenyl ether	NA	NA
4-Nitroaniline	NA	NA
4-Nitrophenol	NA	NA
Acenaphthene	NA	NA
Acenaphthylene	NA	NA
Acetophenone	NA	NA
Anthracene	NA	NA
Atrazine	NA	NA
Benzaldehyde	NA	NA
Benzo(a)anthracene	NA	NA
Benzo(a)pyrene	NA	NA
Benzo(b)fluoranthene	NA	NA
Benzo(g,h,i)perylene	NA	NA
Benzo(k)fluoranthene	NA	NA
Benzoic acid	NA	NA
Benzyl alcohol	NA	NA
bis(2-Chloroethoxy)methane	NA	NA
bis(2-Chloroethyl)ether	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA
Butyl benzyl phthalate	NA	NA
Caprolactam	NA	NA
Carbazole	NA	NA
Chrysene	NA	NA
Dibenzo(a,h)anthracene	NA	NA
Dibenzofuran	NA	NA
Diethylphthalate	NA	NA
Dimethyl phthalate	NA	NA
Di-n-butyl phthalate	NA	NA
Di-n-octylphthalate	NA	NA
Fluoranthene	NA	NA
Fluorene	NA	NA
Hexachlorobenzene	NA	NA
Hexachlorobutadiene	NA	NA
Hexachlorocyclopentadiene	NA	NA
Hexachloroethane	NA	NA
Indeno(1,2,3-c,d)pyrene	NA	NA
Isophorone	NA	NA
Naphthalene	NA	NA
Nitrobenzene	NA	NA

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Trip Blank		Trip Blank	
	Tetra Tech	Tetra Tech	Geosyntec	Geosyntec
Company Sampling:	BCX-TS-02	BCX-TS-03	TB-AQ-01	TB-AQ-01
Sample Designation:	BCX-TS-02	BCX-TS-03	TB-AQ-01	TB-AQ-01
Sample Collection Date:	15-Feb-08	20-Feb-08	20-Feb-08	20-Feb-08
Semivolatile Organic Compounds (cont'd)				
N-Nitrosodi-n-propylamine	NA	NA	NA	NA
N-Nitrosodiphenylamine/Diphenylamine	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA
Phenol	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA
Chlorinated Pesticides				
4,4'-DDD	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA
Aldrin	NA	NA	NA	NA
alpha-BHC	NA	NA	NA	NA
alpha-Chlordane	NA	NA	NA	NA
beta-BHC	NA	NA	NA	NA
delta-BHC	NA	NA	NA	NA
Dieldrin	NA	NA	NA	NA
Endosulfan I	NA	NA	NA	NA
Endosulfan II	NA	NA	NA	NA
Endosulfan sulfate	NA	NA	NA	NA
Endrin	NA	NA	NA	NA
Endrin aldehyde	NA	NA	NA	NA
Endrin ketone	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	NA
gamma-Chlordane	NA	NA	NA	NA
Heptachlor	NA	NA	NA	NA
Heptachlor epoxide	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	NA
Toxaphene	NA	NA	NA	NA
Polychlorinated Biphenyls				
Aroclor-1016	NA	NA	NA	NA
Aroclor-1221	NA	NA	NA	NA
Aroclor-1232	NA	NA	NA	NA
Aroclor-1242	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA
Aroclor-1262	NA	NA	NA	NA
Aroclor-1268	NA	NA	NA	NA
Metals				
Aluminum	NA	NA	NA	NA
Antimony	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA
Barium	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA
Calcium	NA	NA	NA	NA
Chromium	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA
Copper	NA	NA	NA	NA
Iron	NA	NA	NA	NA
Lead	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA
Manganese	NA	NA	NA	NA
Mercury	NA	NA	NA	NA
Nickel	NA	NA	NA	NA

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Trip Blank		Trip Blank
Company Sampling:	Tetra Tech	Tetra Tech	Geosyntec
Sample Designation:	BCX-TS-02	BCX-TS-03	TB-AQ-01
Sample Collection Date:	15-Feb-08	20-Feb-08	20-Feb-08
Metals (cont'd)			
Potassium	NA	NA	NA
Selenium	NA	NA	NA
Silver	NA	NA	NA
Sodium	NA	NA	NA
Thallium	NA	NA	NA
Vanadium	NA	NA	NA
Zinc	NA	NA	NA

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Trip Blank		Trip Blank	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	BCX-TS-04	TB-AQ-02	BCX-TS-05	TB-AQ-03
Sample Designation:	BCX-TS-04	TB-AQ-02	BCX-TS-05	TB-AQ-03
Sample Collection Date:	21-Feb-08	21-Feb-08	04-Mar-08	04-Mar-08
Volatile Organic Compounds	µg/L	µg/L	µg/L	µg/L
1,1,1-Trichloroethane	5.0 U	0.29 U	5.0 U	0.29 U
1,1,2,2-Tetrachloroethane	5.0 U	0.37 U	5.0 U	0.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	NA	5.0 U	NA
1,1,2-Trichloroethane	5.0 U	0.30 U	5.0 U	0.30 U
1,1-Dichloroethane	5.0 U	0.25 U	5.0 U	0.25 U
1,1-Dichloroethene/1,1-Dichloroethylene	5.0 U	0.23 U	5.0 U	0.23 U
1,2,4-Trichlorobenzene*	5.0 U	NA	5.0 U	NA
1,2-Dibromo-3-chloropropane	5.0 U	NA	5.0 U	NA
1,2-Dibromoethane	5.0 U	NA	5.0 U	NA
1,2-Dichlorobenzene*	5.0 U	NA	5.0 U	NA
1,2-Dichloroethane	5.0 U	0.20 U	5.0 U	0.20 U
1,2-Dichloropropane	5.0 U	0.25 U	5.0 U	0.25 U
1,3-Dichlorobenzene*	5.0 U	NA	5.0 U	NA
1,4-Dichlorobenzene*	5.0 U	NA	5.0 U	NA
2-Butanone/Methyl ethyl ketone	10 U	2.0 U	10 U	2.0 U
2-Hexanone	10 U	2.9 U	10 U	2.9 U
4-Methyl-2-pentanone	10 U	2.2 U	10 U	2.2 U
Acetone	20 U	10 U	20 U	10 U
Benzene	5.0 U	0.20 U	5.0 U	0.20 U
Bromodichloromethane	5.0 U	0.29 U	5.0 U	0.29 U
Bromoform	5.0 U	0.28 U	5.0 U	0.28 U
Bromomethane/Methyl bromide	5.0 U	0.54 U	5.0 U	0.54 U
Carbon disulfide	5.0 U	0.20 U	5.0 U	0.20 U
Carbon tetrachloride	5.0 U	0.29 U	5.0 U	0.29 U
Chlorobenzene	5.0 U	0.20 U	5.0 U	0.20 U
Chloroethane	5.0 U	0.46 U	5.0 U	0.46 U
Chloroform	1.9 J	0.21 U	1.8 J	0.21 U
Chloromethane/Methyl chloride	5.0 U	0.38 U	5.0 U	0.38 U
cis-1,2-Dichloroethene/cis-1,2-Dichloroethylene	5.0 U	0.28 U	5.0 U	0.28 U
cis-1,3-Dichloropropene	5.0 U	0.24 U	5.0 U	0.24 U
Cyclohexane	5.0 U	NA	5.0 U	NA
Dibromochloromethane	5.0 U	0.20 U	5.0 U	0.20 U
Dichlorodifluoromethane	5.0 U	NA	5.0 U	NA
Ethylbenzene	5.0 U	0.20 U	5.0 U	0.20 U
Isopropylbenzene	5.0 U	NA	5.0 U	NA
Methyl acetate	5.0 U	NA	5.0 U	NA
Methyl tertiary butyl ether (MTBE)	5.0 U	NA	5.0 U	NA
Methylcyclohexane	5.0 U	NA	5.0 U	NA
Methylene chloride	5.0 U	1.0 U	5.0 U	17.3 V
Styrene	5.0 U	0.20 U	5.0 U	0.20 U
Tetrachloroethene/Tetrachloroethylene	5.0 U	0.25 U	5.0 U	0.25 U
Toluene	5.0 U	0.27 U	5.0 U	0.27 U
trans-1,2-Dichloroethene/ trans-1,2-Dichloroethylene	5.0 U	0.20 U	5.0 U	0.20 U
trans-1,3-Dichloropropene	5.0 U	0.21 U	5.0 U	0.21 U
Trichloroethene/Trichloroethylene	5.0 U	0.38 U	5.0 U	0.38 U
Trichlorofluoromethane	5.0 U	NA	5.0 U	NA
Vinyl chloride	2.0 U	0.34 U	2.0 U	0.34 U
Xylenes (total)	5.0 U	0.56 U	5.0 U	0.56 U
Semivolatile Organic Compounds				
1,1'-Biphenyl	NA	NA	NA	NA
2,4,5-Trichlorophenol	NA	NA	NA	NA
2,4,6-Trichlorophenol	NA	NA	NA	NA
2,4-Dichlorophenol	NA	NA	NA	NA
2,4-Dimethylphenol	NA	NA	NA	NA
2,4-Dinitrophenol	NA	NA	NA	NA

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Trip Blank		Trip Blank	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:				
Sample Designation:	BCX-TS-04	TB-AQ-02	BCX-TS-05	TB-AQ-03
Sample Collection Date:	21-Feb-08	21-Feb-08	04-Mar-08	04-Mar-08
Semivolatile Organic Compounds (cont'd)				
2,4-Dinitrotoluene	NA	NA	NA	NA
2,6-Dinitrotoluene	NA	NA	NA	NA
2-Chloronaphthalene	NA	NA	NA	NA
2-Chlorophenol	NA	NA	NA	NA
2-Methylnaphthalene	NA	NA	NA	NA
2-Methylphenol	NA	NA	NA	NA
2-Nitroaniline	NA	NA	NA	NA
2-Nitrophenol	NA	NA	NA	NA
3 & 4-Methylphenol	NA	NA	NA	NA
3,3'-Dichlorobenzidine	NA	NA	NA	NA
3-Nitroaniline	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol/4,6-Dintro-2-cresol	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NA	NA	NA	NA
4-Chloro-3-methylphenol	NA	NA	NA	NA
4-Chloroaniline	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NA	NA	NA	NA
4-Nitroaniline	NA	NA	NA	NA
4-Nitrophenol	NA	NA	NA	NA
Acenaphthene	NA	NA	NA	NA
Acenaphthylene	NA	NA	NA	NA
Acetophenone	NA	NA	NA	NA
Anthracene	NA	NA	NA	NA
Atrazine	NA	NA	NA	NA
Benzaldehyde	NA	NA	NA	NA
Benzo(a)anthracene	NA	NA	NA	NA
Benzo(a)pyrene	NA	NA	NA	NA
Benzo(b)fluoranthene	NA	NA	NA	NA
Benzo(g,h,i)perylene	NA	NA	NA	NA
Benzo(k)fluoranthene	NA	NA	NA	NA
Benzoic acid	NA	NA	NA	NA
Benzyl alcohol	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	NA	NA	NA	NA
bis(2-Chloroethyl)ether	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	NA	NA	NA	NA
Butyl benzyl phthalate	NA	NA	NA	NA
Caprolactam	NA	NA	NA	NA
Carbazole	NA	NA	NA	NA
Chrysene	NA	NA	NA	NA
Dibenzo(a,h)anthracene	NA	NA	NA	NA
Dibenzofuran	NA	NA	NA	NA
Diethylphthalate	NA	NA	NA	NA
Dimethyl phthalate	NA	NA	NA	NA
Di-n-butyl phthalate	NA	NA	NA	NA
Di-n-octylphthalate	NA	NA	NA	NA
Fluoranthene	NA	NA	NA	NA
Fluorene	NA	NA	NA	NA
Hexachlorobenzene	NA	NA	NA	NA
Hexachlorobutadiene	NA	NA	NA	NA
Hexachlorocyclopentadiene	NA	NA	NA	NA
Hexachloroethane	NA	NA	NA	NA
Indeno(1,2,3-c,d)pyrene	NA	NA	NA	NA
Isophorone	NA	NA	NA	NA
Naphthalene	NA	NA	NA	NA
Nitrobenzene	NA	NA	NA	NA

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Trip Blank		Trip Blank	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	BCX-TS-04	TB-AQ-02	BCX-TS-05	TB-AQ-03
Sample Designation:	BCX-TS-04	TB-AQ-02	BCX-TS-05	TB-AQ-03
Sample Collection Date:	21-Feb-08	21-Feb-08	04-Mar-08	04-Mar-08
Semivolatile Organic Compounds (cont'd)				
N-Nitrosodi-n-propylamine	NA	NA	NA	NA
N-Nitrosodiphenylamine/Diphenylamine	NA	NA	NA	NA
Pentachlorophenol	NA	NA	NA	NA
Phenanthrene	NA	NA	NA	NA
Phenol	NA	NA	NA	NA
Pyrene	NA	NA	NA	NA
Chlorinated Pesticides				
4,4'-DDD	NA	NA	NA	NA
4,4'-DDE	NA	NA	NA	NA
4,4'-DDT	NA	NA	NA	NA
Aldrin	NA	NA	NA	NA
alpha-BHC	NA	NA	NA	NA
alpha-Chlordane	NA	NA	NA	NA
beta-BHC	NA	NA	NA	NA
delta-BHC	NA	NA	NA	NA
Dieldrin	NA	NA	NA	NA
Endosulfan I	NA	NA	NA	NA
Endosulfan II	NA	NA	NA	NA
Endosulfan sulfate	NA	NA	NA	NA
Endrin	NA	NA	NA	NA
Endrin aldehyde	NA	NA	NA	NA
Endrin ketone	NA	NA	NA	NA
gamma-BHC (Lindane)	NA	NA	NA	NA
gamma-Chlordane	NA	NA	NA	NA
Heptachlor	NA	NA	NA	NA
Heptachlor epoxide	NA	NA	NA	NA
Methoxychlor	NA	NA	NA	NA
Toxaphene	NA	NA	NA	NA
Polychlorinated Biphenyls				
Aroclor-1016	NA	NA	NA	NA
Aroclor-1221	NA	NA	NA	NA
Aroclor-1232	NA	NA	NA	NA
Aroclor-1242	NA	NA	NA	NA
Aroclor-1248	NA	NA	NA	NA
Aroclor-1254	NA	NA	NA	NA
Aroclor-1260	NA	NA	NA	NA
Aroclor-1262	NA	NA	NA	NA
Aroclor-1268	NA	NA	NA	NA
Metals				
Aluminum	NA	NA	NA	NA
Antimony	NA	NA	NA	NA
Arsenic	NA	NA	NA	NA
Barium	NA	NA	NA	NA
Beryllium	NA	NA	NA	NA
Cadmium	NA	NA	NA	NA
Calcium	NA	NA	NA	NA
Chromium	NA	NA	NA	NA
Cobalt	NA	NA	NA	NA
Copper	NA	NA	NA	NA
Iron	NA	NA	NA	NA
Lead	NA	NA	NA	NA
Magnesium	NA	NA	NA	NA
Manganese	NA	NA	NA	NA
Mercury	NA	NA	NA	NA
Nickel	NA	NA	NA	NA

**TABLE 7
CORRELATION OF SPLIT TANK SAMPLE RESULTS**

Sample ID:	Trip Blank		Trip Blank	
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec
Company Sampling:	BCX-TS-04	TB-AQ-02	BCX-TS-05	TB-AQ-03
Sample Designation:	BCX-TS-04	TB-AQ-02	BCX-TS-05	TB-AQ-03
Sample Collection Date:	21-Feb-08	21-Feb-08	04-Mar-08	04-Mar-08
Metals (cont'd)				
Potassium	NA	NA	NA	NA
Selenium	NA	NA	NA	NA
Silver	NA	NA	NA	NA
Sodium	NA	NA	NA	NA
Thallium	NA	NA	NA	NA
Vanadium	NA	NA	NA	NA
Zinc	NA	NA	NA	NA

Notes:

The Geosyntec data is assumed to have been generated prior to data validation.

µg/kg = Micrograms per kilogram

µg/L = Micrograms per liter

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

R = The sample result is rejected as unusable due to serious deficiencies in one or more quality control criteria. The analyte may or may not be present in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.

V = The analyte was detected in the associated method blank.

NA = The sample was not analyzed for this analyte.

* = These compounds were analyzed by method SW-846 8260B (volatile organic compounds) for the Tetra Tech data and by method SW-846 8270C (semivolatile organic compounds) for the Geosyntec data.

Positive results are presented in **bold**.

Highlighted results indicate a greater than one magnitude difference between the Tetra Tech and Geosyntec data.

**TABLE 8
CORRELATION OF TANK AND CONTAINMENT AREA SPLIT RINSATE SAMPLE RESULTS**

Tank Number:	T107		SCU		Equipment Rinsate Blanks		Trip Blank
Company Sampling:	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec	Tetra Tech
Sample Designation:	T107-RS-01	T107-RS-01	SCU-RS-01	SCU-RS-01	EB-RS-13	EB-AQ-13 and -14	Trip Blank
Sample Collection Date:	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08
Volatile Organic Compounds	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
1,1,1-Trichloroethane	5.0 U	0.33 U	5.0 U	0.33 U	5.0 U	0.33 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	0.21 U	5.0 U	0.21 U	5.0 U	0.21 U	5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
1,1,2-Trichloroethane	5.0 U	0.26 U	5.0 U	0.26 U	5.0 U	0.26 U	5.0 U
1,1-Dichloroethane	5.0 U	0.24 U	5.0 U	0.24 U	5.0 U	0.24 U	5.0 U
1,1-Dichloroethene/1,1-Dichloroethylene	5.0 U	0.54 U	5.0 U	0.54 U	5.0 U	0.54 U	5.0 U
1,2,4-Trichlorobenzene	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
1,2-Dibromo-3-chloropropane	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
1,2-Dibromoethane	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
1,2-Dichlorobenzene/o-Dichlorobenzene	5.0 U	0.20 U	5.0 U	0.20 U	5.0 U	0.20 U	5.0 U
1,2-Dichloroethane	5.0 U	0.34 U	5.0 U	0.34 U	5.0 U	0.34 U	5.0 U
1,2-Dichloropropane	5.0 U	0.21 U	5.0 U	0.21 U	5.0 U	0.21 U	5.0 U
1,3-Dichlorobenzene/m-Dichlorobenzene	5.0 U	0.23 U	5.0 U	0.23 U	5.0 U	0.23 U	5.0 U
1,4-Dichlorobenzene/p-Dichlorobenzene	5.0 U	0.22 U	5.0 U	0.22 U	5.0 U	0.22 U	5.0 U
2-Butanone/Methyl ethyl ketone	6.2 J	NA	10 U	NA	7.2 J	NA	10 U
2-Chloroethyl vinyl ether	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
2-Hexanone	10 U	NA	10 U	NA	10 U	NA	10 U
4-Methyl-2-pentanone	10 U	NA	10 U	NA	10 U	NA	10 U
Acetone	26	NA	10 J	NA	13 J	NA	20 U
Acrolein	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA
Acrylonitrile	NA	2.0 U	NA	2.0 U	NA	2.0 U	NA
Benzene	5.0 U	0.40 U	5.0 U	0.40 U	5.0 U	0.40 U	5.0 U
Bromodichloromethane	2.0 J	1.9	3.0 J	3.2	4.0 J	4.1	5.0 U
Bromoform	5.0 U	0.33 U	5.0 U	0.33 U	5.0 U	0.33 U	5.0 U
Bromomethane/Methyl bromide	5.0 U	0.78 U	5.0 U	0.78 U	5.0 U	0.78 U	5.0 U
Carbon disulfide	3.5 J	NA	5.0 U	NA	5.0 U	NA	5.0 U
Carbon tetrachloride	5.0 U	0.22 U	5.0 U	0.22 U	5.0 U	0.22 U	5.0 U
Chlorobenzene	5.0 U	0.22 U	5.0 U	0.22 U	5.0 U	0.22 U	5.0 U
Chloroethane	5.0 U	0.48 U	5.0 U	0.48 U	5.0 U	0.48 U	5.0 U
Chloroform	3.0 J	3.2	5.0	6.0	8.8	9.7	5.0 U
Chloromethane/Methyl chloride	5.0 U	0.61 U	5.0 U	0.67 I	5.0 U	0.6 U	5.0 U
cis-1,2-Dichloroethene/cis-1,2-Dichloroethylene	5.0 U	0.20 U	5.0 U	0.20 U	5.0 U	0.20 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	0.21 U	5.0 U	0.21 U	5.0 U	0.21 U	5.0 U
Cyclohexane	5.0 U	NA	5.0 U	NA	1.1 J	NA	5.0 U
Dibromochloromethane	5.0 U	0.89 I	1.8 J	1.5	2.4 J	1.9	5.0 U
Dichlorodifluoromethane	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U
Ethylbenzene	5.0 U	0.43 U	5.0 U	0.43 U	5.0 U	0.43 U	5.0 U
Isopropylbenzene	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Methyl acetate	5.0 U	NA	1.2 J	NA	5.0 U	NA	5.0 U

**TABLE 8
CORRELATION OF TANK AND CONTAINMENT AREA SPLIT RINSATE SAMPLE RESULTS**

Tank Number:	T107		SCU		Equipment Rinsate Blanks		Trip Blank
Company Sampling:	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec	Tetra Tech
Sample Designation:	T107-RS-01	T107-RS-01	SCU-RS-01	SCU-RS-01	EB-RS-13	EB-AQ-13 and -14	Trip Blank
Sample Collection Date:	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08
Volatile Organic Compounds (cont'd)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Methyl tertiary butyl ether (MTBE)	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Methylcyclohexane	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Methylene chloride	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U	1.0 U	5.0 U
Styrene	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Tetrachloroethene/Tetrachloroethylene	5.0 U	0.22 U	5.0 U	0.22 U	5.0 U	0.22 U	5.0 U
Toluene	5.0 U	0.35 U	5.0 U	0.35 U	5.0 U	0.39 I	5.0 U
trans-1,2-Dichloroethene/ trans-1,2-Dichloroethylene	5.0 U	0.45 U	5.0 U	0.45 U	5.0 U	0.45 U	5.0 U
trans-1,3-Dichloropropene	5.0 U	0.21 U	5.0 U	0.21 U	5.0 U	0.21 U	5.0 U
Trichloroethene/Trichloroethylene	5.0 U	0.32 U	5.0 U	0.32 U	5.0 U	0.32 U	5.0 U
Trichlorofluoromethane	5.0 U	0.50 U	5.0 U	0.50 U	5.0 U	0.50 U	5.0 U
Vinyl chloride	2.0 U	0.30 U	2.0 U	0.30 U	2.0 U	0.30 U	2.0 U
Xylenes (total)	5.0 U	1.2 U	5.0 U	1.2 U	5.0 U	1.2 U	5.0 U
Semivolatile Organic Compounds	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
1,1'-Biphenyl	5.2 U	NA	5.0 U	NA	NA	NA	NA
1,2-Dichlorobenzene	NA	0.97 U	NA	1.0 U	NA	0.97 U	NA
1,2-Diphenylhydrazine	NA	0.97 U	NA	NA	NA	0.97 U	NA
1,3-Dichlorobenzene	NA	0.97 U	NA	1.0 U	NA	0.97 U	NA
1,4-Dichlorobenzene	NA	0.97 U	NA	1.0 U	NA	0.97 U	NA
2,4,5-Trichlorophenol	5.2 U	NA	5.0 U	NA	NA	NA	NA
2,4,6-Trichlorophenol	5.2 U	1.4 U	5.0 U	1.4 U	NA	6.3	NA
2,4-Dichlorophenol	5.2 U	1.3 U	5.0 U	1.3 U	NA	1.3 U	NA
2,4-Dimethylphenol	5.2 U	1.2 U	5.0 U	1.2 U	NA	1.2 U	NA
2,4-Dinitrophenol	26 U	9.7 U	25 U	10 U	NA	9.7 U	NA
2,4-Dinitrotoluene	10 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
2,6-Dinitrotoluene	10 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
2-Chloronaphthalene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
2-Chlorophenol	5.2 U	1.2 U	5.0 U	1.2 U	NA	2.0 I	NA
2-Methylnaphthalene	5.2 U	NA	5.0 U	NA	NA	NA	NA
2-Methylphenol	5.2 U	NA	5.0 U	NA	NA	NA	NA
2-Nitroaniline	10 U	NA	10 U	NA	NA	NA	NA
2-Nitrophenol	10 U	1.3 U	10 U	1.3 U	NA	1.3 U	NA
3 & 4-Methylphenol	6.8 J	NA	10 U	NA	NA	NA	NA
3,3'-Dichlorobenzidine	26 U	1.9 U	25 U	2.0 U	NA	1.9 U	NA
3-Nitroaniline	10 U	NA	10 U	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol/4,6-Dintro-2-cresol	26 U	3.9 U	25 U	4.0 U	NA	3.9 U	NA
4-Bromophenyl phenyl ether	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
4-Chloro-3-methylphenol	5.2 U	2.1 I	5.0 U	1.0 U	NA	0.97 U	NA
4-Chloroaniline	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
4-Chlorophenyl phenyl ether	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA

**TABLE 8
CORRELATION OF TANK AND CONTAINMENT AREA SPLIT RINSATE SAMPLE RESULTS**

Tank Number:	T107		SCU		Equipment Rinsate Blanks		Trip Blank
	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec	Tetra Tech
Company Sampling:							
Sample Designation:	T107-RS-01	T107-RS-01	SCU-RS-01	SCU-RS-01	EB-RS-13	EB-AQ-13 and -14	Trip Blank
Sample Collection Date:	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08
Semivolatile Organic Compounds (cont'd)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
4-Nitroaniline	10 U	NA	10 U	NA	NA	NA	NA
4-Nitrophenol	26 U	9.7 U	25 U	10 U	NA	9.7 U	NA
Acenaphthene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Acenaphthylene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Acetophenone	5.2 U	NA	5.0 U	NA	NA	NA	NA
Anthracene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Atrazine	5.2 U	NA	5.0 U	NA	NA	NA	NA
Benzaldehyde	26 U	NA	3.0 J	NA	NA	NA	NA
Benzidine	NA	9.7 U	NA	10 U	NA	9.7 U	NA
Benzo(a)anthracene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Benzo(a)pyrene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Benzo(b)fluoranthene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Benzo(g,h,i)perylene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Benzo(k)fluoranthene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
bis(2-Chloroethoxy)methane	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
bis(2-Chloroethyl)ether	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
bis(2-Chloroisopropyl)ether	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
bis(2-Ethylhexyl)phthalate	9.0	35.3	5.0	5.5	NA	5.2	NA
Butyl benzyl phthalate	5.3 J	5.4	10 U	3.2 I	NA	2.7 I	NA
Caprolactam	26 U	NA	25 U	NA	NA	NA	NA
Carbazole	3.9 J	NA	5.0 U	NA	NA	NA	NA
Chrysene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Dibenzo(a,h)anthracene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Dibenzofuran	5.2 U	NA	5.0 U	NA	NA	NA	NA
Diethylphthalate	5.2 U	1.9 U	5.0 U	2.0 U	NA	1.9 U	NA
Dimethyl phthalate	5.2 U	0.97 U	5.0 U	1.0 U	NA	5.6	NA
Di-n-butyl phthalate	5.2 U	1.7 I	5.0 U	1.5 I	NA	0.97 U	NA
Di-n-octylphthalate	5.2 U	1.6 I	5.0 U	1.5 U	NA	1.5 U	NA
Fluoranthene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Fluorene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Hexachlorobenzene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Hexachlorobutadiene	5.2 U	2.4 U	5.0 U	2.5 U	NA	2.4 U	NA
Hexachlorocyclopentadiene	26 U	1.3 U	25 U	1.3 U	NA	1.3 U	NA
Hexachloroethane	5.2 U	2.4 U	5.0 U	2.5 U	NA	2.4 U	NA
Indeno(1,2,3-c,d)pyrene	5.2 U	1.1 U	5.0 U	1.1 U	NA	1.1 U	NA
Isophorone	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Naphthalene	5.2 U	0.97 U	5.0 U	1.0 U	NA	1.4 I	NA
Nitrobenzene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
N-Nitrosodi-n-propylamine	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA

**TABLE 8
CORRELATION OF TANK AND CONTAINMENT AREA SPLIT RINSATE SAMPLE RESULTS**

Tank Number:	T107		SCU		Equipment Rinsate Blanks		Trip Blank
Company Sampling:	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec	Tetra Tech	Geosyntec	Tetra Tech
Sample Designation:	T107-RS-01	T107-RS-01	SCU-RS-01	SCU-RS-01	EB-RS-13	EB-AQ-13 and -14	Trip Blank
Sample Collection Date:	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08	13-Jun-08
Semivolatile Organic Compounds (cont'd)	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
N-Nitrosodiphenylamine/Diphenylamine	5.2 U	1.9 U	5.0 U	2.0 U	NA	1.9 U	NA
Pentachlorophenol	26 U	9.7 U	25 U	10 U	NA	9.7 U	NA
Phenanthrene	2.3 J	2.0 I	1.8 J	2.1 I	NA	0.97 U	NA
Phenol	8.7	3.4 I	7.1	3.0 I	NA	23.4	NA
Pyrene	5.2 U	0.97 U	5.0 U	1.0 U	NA	0.97 U	NA
Hardness		mg/L		mg/L		mg/L	
Hardness as CaCO ₃	NA	305	NA	405	NA	264	NA
Metals	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
Aluminum	0.36	NA	2.8	NA	0.20 U	NA	NA
Antimony	0.010 U	NA	0.0089 J	NA	0.010 U	NA	NA
Arsenic	0.010 U	0.0054 U	0.010 U	0.0054 U	0.010 U	0.0054 U	NA
Barium	0.019 J	NA	0.027	NA	0.019 J	NA	NA
Beryllium	0.0040 U	NA	0.0040 U	NA	0.0040 U	NA	NA
Cadmium	0.0020 U	0.0010 U	0.0020 U	0.0010 U	0.0020 U	0.0010 U	NA
Calcium	92	NA	140	NA	68	NA	NA
Chromium	0.0050 U	0.0020 U	0.0026 J	0.0020 U	0.0050 U	0.0020 U	NA
Cobalt	0.025 U	NA	0.025 U	NA	0.025 U	NA	NA
Copper	0.016	NA	0.065	NA	0.0076	NA	NA
Iron	25	NA	0.56	NA	0.10 U	NA	NA
Lead	0.0028 J	0.0042 I	0.010 U	0.0045 I	0.0030 J	0.0033 I	NA
Magnesium	26	NA	27	NA	27	NA	NA
Manganese	0.50	NA	0.0087 J	NA	0.015 U	NA	NA
Mercury	0.00010 U	NA	0.00010 U	NA	0.00010 U	NA	NA
Nickel	0.020 J	NA	0.055	NA	0.040 U	NA	NA
Potassium	7.0	NA	9.7	NA	2.1 J	NA	NA
Selenium	0.010 U	NA	0.010 U	NA	0.010 U	NA	NA
Silver	0.0031 J	NA	0.0020 J	NA	0.00063 J	NA	NA
Sodium	51	NA	140	NA	13	NA	NA
Thallium	0.050 U	NA	0.050 U	NA	0.050 U	NA	NA
Vanadium	0.035 J	NA	0.11	NA	0.050 U	NA	NA
Zinc	0.086	NA	0.21	NA	0.038	NA	NA

Notes:

The Geosyntec data is assumed to have been generated prior to data validation.

µg/kg = Micrograms per kilogram

µg/L = Micrograms per liter

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

Positive results are presented in **bold**.

I = Detected result is between the sample specific method detection limit and laboratory reporting limit.

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

NA = The sample was not analyzed for this analyte.

APPENDIX C
TETRA TECH DATA VALIDATION REPORTS
(149 Pages)



July 21, 2008

Mr. Matthew Huyser
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street SW, 11th Floor
Atlanta, Georgia 30303

Subject: BCX Tank Site
Technical Direction Document Number (No.) TTEMI-05-003-0023
Contract No. EP-W-05-054 (START III Region 4)
Full Data Validation Report
Shealy Environmental Services, Inc. Work Order Nos. JB16010 and JC07005
Analytical Parameters: Target compound list (TCL) volatile organic compounds (VOC), TCL semivolatile organic compounds (SVOC), chlorinated pesticides, polychlorinated biphenyl compounds (PCB), and target analyte list (TAL) metals

Laboratory Order No.	Samples	Field Duplicate Pairs	Field Quality Control Samples
JB16010	Waste Samples: T101-PR-01 and T13-PR-01	None	BCX-EB-01, BCX-FL-01, and BCX-TS-02
JC07005	Waste Sample: T13-PR-01	None	None

Dear Mr. Huyser:

The Tetra Tech Superfund Technical Assessment and Response Team (START) conducted data validation of the analytical results for two waste samples and three aqueous quality control (QC) samples (one equipment rinsate blank, one field blank, and one trip blank) that were collected at the BCX Tank Site in Jacksonville, Florida, on February 15, 2008. The samples were analyzed under laboratory work order Nos. JB16010 and JC07005 by Shealy Environmental Services, Inc. (Shealy), of West Columbia, South Carolina. The samples were analyzed for TCL VOCs by SW-846 Method 8260B, TCL SVOCs by SW-846 Method 8270C, chlorinated pesticides by SW-846 Method 8081A, PCBs by SW-846 Method 8082, and TAL metals by SW-846 Methods 7470A and 7471A for mercury and 6010B for the remaining metals. At START's request, Shealy re-analyzed sample T13-PR-01 for pesticides only. This work was reported under laboratory work order No. JC07005.

Analytical data were evaluated in general accordance with all applicable data validation guidance documents, including the following: the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review (EPA, July 2007) and the U.S. EPA CLP NFG for Inorganic Data Review (EPA October 2004). The analytical methods used by the fixed laboratories during this project provide guidance on procedures and method acceptance criteria that, in some areas, differ from the NFGs. Where the methods and the NFGs differ, the data validators followed the acceptance criteria in the methods. In addition, if laboratory-derived acceptance criteria were presented in the fixed laboratory data package, then these criteria were used to evaluate the data unless the criteria were considered inadequate.

Data were evaluated based on the following criteria:

- Data Completeness
- Sample Preservation, Sample Receipt, and Holding Times
- Gas Chromatography and Mass Spectrometry (GC/MS) Instrument Performance Checks
- Gas Chromatograph with Electron Capture Detector (GC/ECD) Instrument Performance Check
- DDT/Endrin Breakdown (pesticides only)
- Initial Calibration
- Continuing Calibrations
- Calibration Verification
- Initial and Continuing Calibration Verification
- Field and Laboratory Blanks
- Inductively Coupled Plasma (ICP) – Interference Check Samples (ICS)
- System Monitoring Compounds (Surrogates)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Laboratory Duplicate Sample Analysis
- Spike Sample Analysis
- ICP Serial Dilution
- Field Duplicates
- Laboratory Control Samples (LCS) and Laboratory Control Sample Duplicates (LCSD)
- Dilution by Addition of Solvent
- Dilution by Re-extraction and Reanalysis
- Second Column Confirmation
- Internal Standards
- Target Analyte Identification
- Analyte Quantitation and Reported Detection Limits
- System Performance and Instrument Stability

The following data validation approach was used; it should meet the needs of most data uses and requirements for limits on uncertainty for decision-making using the data. This approach consisted of a review of all of the data, including the raw data. This data validation effort constituted a full validation of the data and involved a 100 percent check against applicable acceptance criteria of all quality control (QC) parameter data, including the parameters listed above. In addition, all data that pertain to analyte identification, such as chromatograms and mass spectra, were checked completely (100 percent) to evaluate the accuracy of analyte identification. This effort involved an in-depth quantitative check of a fraction of the data; this check involved recalculation of QC results (such as percent recoveries [%R] and relative percent difference [RPD] values) and target analyte results from the raw data. Results were recalculated at a frequency of 10 percent for the data that had been transcribed and generated by hand. Results for data calculated by software were recalculated at varying frequencies and to the extent necessary to confirm the adequacy of the software. If errors or discrepancies were encountered when any data were recalculated and checked, the extent of the data check was expanded, as necessary, to identify the full extent of the problem.

Enclosure 1 presents copies of the sample analytical results sheets from the laboratory data package, with hand-entered qualifications from the data validation effort. Enclosure 2 presents the same data validation-qualified analytical results in table format. The following sections discuss the data package and provide

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an overall assessment of the data. This discussion concentrates on the irregularities associated with the various parameters.

DATA COMPLETENESS

The data packages for laboratory work order Nos. JB16010 and JC07005 were complete.

SAMPLE PRESERVATION, SAMPLE RECEIPT, AND HOLDING TIMES

There were no discrepancies observed in the sample preservation, sample receipt or method-specified holding times with one exception. The 14-day extraction holding time was exceeded by 10 days in the re-extraction for chlorinated pesticide sample T13-PR-01. Therefore, all pesticide results from the reanalysis for sample T13-PR-01 were considered estimated (flagged “J” or “UJ”, as appropriate). Sample results for T13-PR-01 were reported from the initial analysis in Enclosure 2.

GC/MS INSTRUMENT PERFORMANCE CHECKS

All GC/MS instrument performance checks for the analysis of samples for VOCs and SVOCs met the acceptance criteria.

GC/ECD INSTRUMENT PERFORMANCE CHECK

All GC/ECD instrument performance checks for the analysis of samples for chlorinated pesticides and PCBs met the acceptance criteria.

DDT/ENDRIN BREAKDOWN

The breakdown percentages for both DDT and endrin for the analysis of samples for chlorinated pesticides met the acceptance criteria.

INITIAL CALIBRATION

The initial calibrations were analyzed at the proper frequencies and concentrations and met all requirements.

CONTINUING CALIBRATIONS

The continuing calibrations were analyzed at the proper frequencies and concentrations and met all requirements, with the following exceptions. In the pesticide and PCB continuing calibrations, a few peaks had excessive percent differences from the average initial calibration results. No qualifications are warranted because only one of the two columns was affected, and results were reported for the column within QC limits.

CALIBRATION VERIFICATION

The second source calibration verifications for the organic analyses and the Contract Required Quantitation Limit (CRQL) Check Standard (CRI) for the inorganic analyses were analyzed at the proper frequencies and concentrations and met all requirements.

INITIAL AND CONTINUING CALIBRATION VERIFICATION

The initial and continuing calibration verifications for the inorganic analyses were analyzed at the proper frequencies and concentrations and met all requirements with one exception. Recoveries for lead (both 112 percent) were biased high and outside QC limits of 90 to 110 percent in two continuing calibration verifications analyzed on February 20, 2008. No qualifications were warranted because the associated

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samples were reanalyzed with acceptable calibration verifications.

FIELD AND LABORATORY BLANKS

Method blanks and the equipment rinsate blank were free of target analytes with the following exceptions. In the pesticide analysis, beta-BHC was detected above the reporting limit in the aqueous method blanks. Therefore, results for beta-BHC for samples BCX-FL-01 and BCX-EB-01 were qualified as undetected (flagged "U").

In the metals analysis, low-level concentrations of arsenic, antimony, cadmium, iron, lead, silver, and sodium were detected in the calibration blanks. No qualifications were warranted because sample results were much higher than the blank concentrations. Low-level concentrations of thallium and zinc were detected in the aqueous method blank. Therefore, results for thallium for samples BCX-FL-01 and BCX-EB-01 were qualified as undetected (flagged "U"). No further qualifications were warranted because zinc was either not detected or present at more than five times the blank concentration in the associated samples. Low-level concentrations of cadmium, calcium, chromium, cobalt, iron, manganese, silver, and sodium in solid method blank 73549. Low-level concentrations of iron and sodium were also detected in solid method blank 77189. No qualifications were warranted because associated sample results were either not detected or much higher than the method blank concentrations.

Low-level concentrations of copper and zinc were detected in equipment rinsate blank BCX-EB-01. No qualifications were warranted because copper and zinc were not detected in the associated samples or were detected at much higher concentrations.

ICP INTERFERENCE CHECK SAMPLES

All ICSs were within the QC limits.

SYSTEM MONITORING COMPOUNDS (SURROGATES)

All surrogate recoveries were within the laboratory-specified control limits, with the following exceptions. The recovery for toluene-d8 (55 percent) was biased low and outside QC limits of 68 to 124 percent in sample T101-PR-01. Therefore, all VOC results were qualified as estimated (flagged "J" or "UJ", as appropriate) and may be biased low for sample T101-PR-01.

In the diluted SVOC analyses for samples T101-PR-01 and T13-PR-01, the surrogates associated with these dilutions were not evaluated, since the degree of dilution that was applied reduced the surrogate spike concentrations to levels where recoveries could not be calculated.

In the chlorinated pesticide analysis, the recovery for decachlorobiphenyl (144 percent) was biased high and outside QC limits of 50 to 130 percent for sample T13-PR-01 in work order No. JB16010. Therefore, detected results for alpha-BHC, gamma-BHC, 4,4'-DDD, endosulfan II, endrin, endrin aldehyde, heptachlor, and heptachlor epoxide were qualified as estimated (flagged "J") and may be biased high for sample T13-PR-01. In the re-analysis of sample T13-PR-01 in work order No. JC07005, recovery of decachlorobiphenyl was within QC limits; however, the recovery of the other surrogate, 2,3,4,5-tetrachloro-m-xylene, could not be determined due to matrix interference. Therefore, all pesticide results from the reanalysis for sample T13-PR-01 were considered estimated (flagged "J" or "UJ", as appropriate).

In the PCB analysis, the recovery for tetrachloro-m-xylene (168 percent) was biased high and outside QC limits of 50 to 130 percent in sample T13-PR-01. No qualifications were warranted, because PCBs were not detected in the sample. The retention time for surrogate 2,3,4,5-tetrachloro-m-xylene for sample

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T13-PR-01 was outside the QC limits of ± 0.02 minutes. No qualifications were warranted because the retention time was within the QC limits of 0.05 minutes specified in the NFG for Superfund Organics Methods Data Review (EPA, July 2007).

MATRIX SPIKE/MATRIX SPIKE DUPLICATES

MS/MSD analyses were performed on sample BCX-FL-01 for mercury and T13-PR-01 and BCX-EB-01 for TAL metals. MS/MSD recoveries and relative percent difference (RPD) results were within the laboratory-specified control limits, with the exceptions indicated below. The results in all associated samples were qualified as indicated.

T13-PR-01:

Compound	MS %R	MSD %R	RPD	Limits (%)	Qualifiers
Lead (undiluted)	136	162	10	75-125; 20	No flag (sample results reported from another analytical batch)
Lead (20-fold dilution)	70	75	2	75-125; 20	J
Nickel	115	128	5	75-125; 20	J
Silver	58	79	31	45-109; 21	J/UJ

Control limits were not applied for calcium, copper, iron, manganese, sodium, and zinc because the sample results were greater than four times the spike concentrations.

In work order No. JC07005, pesticide MS/MSD analyses were performed on sample T13-PR-01. Due to severe matrix interference, all analyte recoveries and all RPDs were outside of the QC limits (50 to 130 percent recovery, 30 percent RPD). Therefore, all pesticide results from the reanalysis for sample T13-PR-01 were considered estimated (flagged "J" or "UJ", as appropriate) and false positives may be possible.

MS/MSD analyses were not performed on samples for VOCs, SVOCs, pesticides (work order No. JB16010 only), PCBs, and mercury (aqueous sample only). No qualifications were warranted for these data gaps.

LABORATORY DUPLICATE SAMPLE ANALYSIS

Laboratory duplicate sample analyses were not performed. Precision was evaluated based on MS/MSD and LCS and LCSD analyses.

SPIKE SAMPLE ANALYSIS

Post digestion spikes were neither required nor performed.

ICP SERIAL DILUTION

An ICP serial dilution was performed for samples TR13-PR-01 and BCX-EB-01 for TAL metals (minus mercury). All percent differences were within the QC limit of 10 percent with the following exceptions. For sample TR13-PR-01, percent differences for antimony (13 percent), arsenic (54 percent), potassium (20 percent), silver (62 percent), sodium (17 percent), thallium (19 percent), and zinc (11 percent) were above the QC limit. For sample BCX-EB-01, percent differences for antimony (13 percent), thallium (19 percent) were above the QC limit. Positive zinc results in all samples were qualified as estimated

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(flagged “J”). No qualifications were required for antimony, arsenic, potassium, silver, sodium, and thallium because the undiluted sample results were less than 50 times the sample detection limits.

FIELD DUPLICATES

No field duplicate samples were collected and provided to the fixed laboratory.

LABORATORY CONTROL SAMPLES (LCS) AND LABORATORY CONTROL SAMPLE DUPLICATES (LCSD)

All LCS and LCSD results were within the QC limits with the following exception. In the VOC solid LCS and LCSD, the RPD for dichlorofluoromethane (37 percent) exceeded the QC limit of 20 percent. No qualifications were warranted because dichlorofluoromethane was not detected in the associated samples.

In the SVOC aqueous LCS and LCSD, the RPD for 2-methylnaphthalene (97 percent) exceeded the QC limit of 40 percent. No qualifications were warranted because 2-methylnaphthalene was not detected in the associated samples.

In the aqueous pesticide LCS and LCSD, recoveries for beta-BHC (205 and 185 percent) were biased high and outside QC limits of 70 to 156 percent. No qualifications were warranted, because positive beta-BHC results were previously qualified as undetected because of method blank.

DILUTION BY ADDITION OF SOLVENT

The VOC fractions for the waste samples were analyzed using the medium-concentration methanol dilution approach, resulting in 100-fold dilutions for the waste samples. This resulted in elevated reporting limits, which are of particular concern regarding the analytes reported as non-detects.

In the SVOC analysis, samples T101-PR-01 and T13-PR-01 were analyzed at 20-fold dilutions to bring in target analytes with the calibration range and to reduce matrix interference. Reporting limits were adjusted accordingly.

In the chlorinated pesticide analysis, sample T101-PR-01 was analyzed at a 40-fold dilution and sample T13-PR-01 was analyzed at a 100-fold dilution to bring target analytes within the calibration range and to reduce matrix interference. The re-analysis of sample T13-PR01 was analyzed at 200- and 400-fold dilutions to bring target analytes within the calibration range and to reduce matrix interference. Reporting limits were adjusted accordingly.

In the PCB analysis, sample T101-PR-01 was analyzed at a 10-fold dilution and sample T13-PR-01 was analyzed at a five-fold dilution to reduce matrix interference. Reporting limits were adjusted accordingly.

In the metals analysis, sample T101-PR-01 was reanalyzed at a five-fold dilution to bring concentrations of lead and sodium with the calibration range. Reporting limits were adjusted accordingly.

DILUTION BY RE-EXTRACTION AND REANALYSIS

In the pesticide analysis, sample T13-PR-01 was re-extracted and re-analyzed under work order No. JC07005 at START's request.

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In the metals analysis, sample T13-PR-01 was redigested and reanalyzed at a 20-fold dilution to bring iron lead, and sodium within the calibration range. Reporting limits were adjusted accordingly.

SECOND COLUMN CONFIRMATION

For the chlorinated pesticide and PCB analyses, the QC limits for confirmation between the primary and secondary columns for detected results were met with the following exceptions. In the chlorinated pesticide analysis, results for gamma-BHC and heptachlor epoxide for sample T13-PR-01 in the original analysis yielded excessive percent differences between the two chromatography columns. In the re-analysis for this sample, results for 4,4'-DDD, beta-BHC, gamma-BHC, and heptachlor yielded similar excessive percent differences. Therefore, results for gamma-BHC and heptachlor epoxide in the original analysis and for 4,4'-DDD, beta-BHC, gamma-BHC, and heptachlor in the re-analysis of sample T13-PR-01 were qualified as estimated (flagged "J") due to apparent interference from non-target compounds.

INTERNAL STANDARDS

For the VOC and SVOC analyses, the internal standard area counts and retention times in the samples were within QC limits established using the associated continuing calibration standard data.

TARGET ANALYTE IDENTIFICATION

The relative retention times (RRT) of the reported compounds in the VOC, SVOC, chlorinated pesticide, and PCB analyses were within ± 0.06 RRT units of the standard RRTs. For each detected analyte in the VOC and SVOC analyses, all ions present in the standard mass spectrum at a relative intensity greater than 10 percent were present in the sample spectrum and agreed within ± 20 percent between the standard and sample spectra.

ANALYTE QUANTITATION AND REPORTED DETECTION LIMITS

Sample results were checked for proper dilution factors, volumes, masses, and adjustments for moisture content. Sample results and reporting limits were correctly calculated. Sample results below the calibration range, or less than the laboratory reporting limits (RL) but greater than the method detection limits (MDL), were qualified (flagged "J") as estimated.

TENTATIVELY IDENTIFIED COMPOUNDS

All tentatively identified compound (TIC) results in the volatile and semivolatile analyses with the exception of unknown compounds were qualified as tentatively identified and estimated, "NJ." Unknown compounds were qualified as estimated, "J." TIC results were checked for proper dilution factors, volumes, masses, and adjustments for moisture content. TIC results were correctly calculated.

SYSTEM PERFORMANCE AND INSTRUMENT STABILITY

No signs of degraded instrument performance were observed. Analytical systems were judged to have been within control and stable during the analyses.

OVERALL ASSESSMENT OF DATA

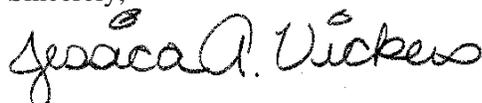
The overall quality of this data package was acceptable, with the following exceptions. No data were rejected based on the data validation. The data validation flags that were assigned based on other quality control issues are detailed below. All data can be used as qualified for any purpose.

Mr. M. Huyser
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Sample Designation	Flag	Analysis	Parameter	Reason
T101-PR-01	J, UJ	VOCs	All Analytes	Surrogate recovery outside limits
T13-PR-01 (re-analysis)	J, UJ	Pesticides	All Analytes	Holding time exceedance
BCX-FL-01, BCX-EB-01	U	Pesticides	beta-BHC	Blank contamination
T13 -PR-01 (original analysis)	J	Pesticides	4,4'-DDD; alpha-BHC; gamma-BHC; Endosulfan II; Endrin; Endrin aldehyde; Heptachlor; Heptachlor epoxide	Surrogate recovery outside limits
T13-PR-01 (re-analysis)	J, UJ	Pesticides	All Analytes	Surrogate recovery outside limits
T13-PR-01 (re-analysis)	J, UJ	Pesticides	All Analytes	Matrix spike irregularities
T13-PR-01 (original analysis)	J	Pesticides	gamma-BHC, Heptachlor epoxide	Second column confirmation irregularity
T13-PR-01 (re-analysis)	J	Pesticides	4,4'-DDD, beta-BHC, gamma-BHC, Heptachlor	Second column confirmation irregularity
BCX-FL-01, BCX-EB-01	U	Metals	Thallium	Blank contamination
T101-PR-01, T13-PR-01	J, UJ	Metals	Lead, nickel, silver	Matrix spike irregularities
BCX-EB-01, T101-PR-01, T13-PR-01	J	Metals	Zinc	Serial dilution irregularities

Please call me at (678) 775-3104 if you have any questions regarding this data validation report.

Sincerely,



Jessica Vickers
 START III Quality Assurance Manager

Enclosures (2)

cc: Katrina Jones, EPA Project Officer
 Darryl Walker, EPA Alternate Project Officer
 Angel Reed, Tetra Tech START III Document Control Coordinator

ENCLOSURE 1

**FIXED LABORATORY ANALYTICAL RESULTS SHEETS WITH HAND-ENTERED DATA
VALIDATION QUALIFIERS FOR SHEALY ENVIRONMENTAL SERVICES, INC. WORK
ORDER NOS. JB16010 AND JC07005**

(39 Pages)

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-001
Description: T101-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1430	% Solids: 43.8 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	100	02/20/2008 1725	LJH		73663	4.73

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		4800 <i>u></i>	1600	ug/kg	1
Benzene	71-43-2	8260B	940	J	1200	260	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		1200 <i>u></i>	410	ug/kg	1
Bromoform	75-25-2	8260B	ND		1200	170	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		1200	430	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		2400	580	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		1200	310	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		1200	430	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		1200	410	ug/kg	1
Chloroethane	75-00-3	8260B	ND		1200	310	ug/kg	1
Chloroform	67-66-3	8260B	ND		1200	200	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1200	240	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		1200	160	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1200	360	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		1200	410	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1200	200	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1200	410	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1200	410	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1200	410	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		1200	380	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		1200	180	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		1200	240	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		1200	410	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1200	180	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1200	360	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		1200	220	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1200	160	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1200 <i>u></i>	200	ug/kg	1
Ethylbenzene	100-41-4	8260B	7300 <i>J</i>		1200	410	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		2400 <i>u></i>	310	ug/kg	1
Isopropylbenzene	98-82-8	8260B	1800 <i>J</i>		1200	190	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		1200 <i>u></i>	160	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	380 <i>J</i>		1200	96	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	3000 <i>J</i>		2400	360	ug/kg	1
Methylcyclohexane	108-87-2	8260B	820 <i>J</i>		1200	150	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		1200 <i>u></i>	630	ug/kg	1
Styrene	100-42-5	8260B	ND		1200 <i>u></i>	260	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1200 <i>u></i>	110	ug/kg	1
Tetrachloroethene	127-18-4	8260B	3100 <i>J</i>		1200	550	ug/kg	1
Toluene	108-88-3	8260B	17000 <i>J</i>		1200	410	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		1200 <i>u></i>	510	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1200	410	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1200 <i>u></i>	200	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1200 <i>u></i>	190	ug/kg	1

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

HOE
 2 Jun 08

Volatile Organic Compounds by GC/MS

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Description: T101-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1430	% Solids: 43.8 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	100	02/20/2008 1725	LJH		73663	4.73

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		1200 <i>W</i>	460	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		1200 <i>W</i>	360	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		1200 <i>W</i>	210	ug/kg	1
Xylenes (total)	1330-20-7	8260B	47000	<i>J</i>	1200	700	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		102	53-142
Bromofluorobenzene		52	47-138
Toluene-d8	N	55	68-124

*HUE
2 Jun 08*

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Library Search

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Date Sampled: 02/15/2008 1430	% Solids: 43.8 02/18/2008 2241
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Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	100	02/20/2008 1725	LJH		73666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Unknown		8260B	43000	J			ug/kg	1
Benzene, 1,2,3-trimethyl-		8260B	2200	NJ			ug/kg	1
Benzene, 1-ethyl-2-methyl-		8260B	3000				ug/kg	1
Benzene, 1,3,5-trimethyl-		8260B	8300				ug/kg	1
D-Limonene		8260B	5700				ug/kg	1
Benzene, 1-methyl-3-propyl-		8260B	3200				ug/kg	1
Benzene, 1,4-diethyl-		8260B	6400				ug/kg	1
Benzene, 2-ethyl-1,4-dimethyl-		8260B	5500				ug/kg	1
Benzene, 1-ethyl-2,4-dimethyl-		8260B	3000				ug/kg	1
Indan, 1-methyl-		8260B	3900	NJ			ug/kg	1

HJG
2 Jun 08

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Library Search

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Date Sampled: 02/15/2008 1430	% Solids: 43.8 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/21/2008 1832	GLR		73790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dodecane		8270C	230000	NJ			ug/kg	1
Tridecane		8270C	270000				ug/kg	1
Tetradecane		8270C	330000				ug/kg	1
Naphthalene, 2,6-dimethyl-		8270C	240000				ug/kg	1
Naphthalene, 2,3-dimethyl-		8270C	580000				ug/kg	1
Pentadecane		8270C	470000				ug/kg	1
Hexadecane		8270C	480000				ug/kg	1
Pentadecane, 2,6,10-trimethyl-		8270C	390000				ug/kg	1
Heptadecane		8270C	560000				ug/kg	1
4,4'-Dimethylbiphenyl		8270C	270000				ug/kg	1
Octadecane		8270C	330000				ug/kg	1
Benzoic acid, 2-hydroxy-, 3-methylbutyl		8270C	420000				ug/kg	1
Nonadecane		8270C	380000				ug/kg	1
Homosalate		8270C	290000				ug/kg	1
Eicosane		8270C	300000				ug/kg	1
Heneicosane		8270C	240000				ug/kg	1
Tricosane		8270C	300000				ug/kg	1
2-Propenoic acid, 3-(4-methoxyphenyl)-,		8270C	590000				ug/kg	1
Octacosane		8270C	340000	NJ			ug/kg	1

HUG
2 JUN 08

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-001
Description: T101-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1430	% Solids: 43.8 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/21/2008 1832	GLR	02/20/2008 2000	73612
2	3550B	8270C	20	02/22/2008 1656	GLR	02/20/2008 2000	73612

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	49000		15000	460	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		15000	600	ug/kg	1
Acetophenone	98-86-2	8270C	ND		15000	890	ug/kg	1
Anthracene	120-12-7	8270C	45000		15000	660	ug/kg	1
Atrazine	1912-24-9	8270C	ND		15000	4500	ug/kg	1
Benzaldehyde	100-52-7	8270C	ND		38000	1200	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	21000		15000	500	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	14000	J	15000	1100	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		15000	1000	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	16000		15000	1000	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		15000	1200	ug/kg	1
1,1'-Biphenyl	92-52-4	8270C	61000		15000	1400	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		15000	640	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	98000		15000	5000	ug/kg	1
Caprolactam	105-60-2	8270C	ND		38000	1100	ug/kg	1
Carbazole	86-74-8	8270C	ND		15000	440	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		15000	840	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		15000	780	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		15000	660	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		15000	630	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		15000	570	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		15000	720	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		15000	630	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		15000	600	ug/kg	1
Chrysene	218-01-9	8270C	27000		15000	470	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	ND		15000	5000	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		15000	5000	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		15000	1000	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		15000	590	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		38000	2600	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		15000	610	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		15000	5000	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		15000	5000	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		15000	780	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		38000	1700	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		38000	300	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		15000	1100	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		15000	1300	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	38000		15000	5000	ug/kg	1
Fluoranthene	206-44-0	8270C	ND		15000	470	ug/kg	1
Fluorene	86-73-7	8270C	54000		15000	580	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		15000	600	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		15000	610	ug/kg	1

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1	3550B	8270C	20	02/21/2008 1832	GLR	02/20/2008 2000	73612
2	3550B	8270C	20	02/22/2008 1656	GLR	02/20/2008 2000	73612

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270C	ND		38000	2900	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		15000	740	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		15000	1400	ug/kg	1
Isophorone	78-59-1	8270C	ND		15000	710	ug/kg	1
2-Methylnaphthalene	91-57-6	8270C	240000		15000	540	ug/kg	2
2-Methylphenol	95-48-7	8270C	ND		15000	840	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		30000	1400	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		15000	770	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		15000	500	ug/kg	1
Naphthalene	91-20-3	8270C	150000		15000	630	ug/kg	1
2-Nitroaniline	88-74-4	8270C	ND		15000	1000	ug/kg	1
3-Nitroaniline	99-09-2	8270C	ND		15000	1100	ug/kg	1
4-Nitroaniline	100-01-6	8270C	ND		15000	890	ug/kg	1
Nitrobenzene	98-95-3	8270C	ND		15000	690	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		15000	1600	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		38000	6500	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		38000	1600	ug/kg	1
Phenanthrene	85-01-8	8270C	180000		15000	610	ug/kg	1
Phenol	108-95-2	8270C	ND		15000	720	ug/kg	1
Pyrene	129-00-0	8270C	73000		15000	650	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		15000	770	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		15000	830	ug/kg	1

Surrogate	Q	Run 1		Q	Run 2	
		% Recovery	Acceptance Limits		% Recovery	Acceptance Limits
2,4,6-Tribromophenol	N	0.0	30-117		31	30-117
2-Fluorobiphenyl	N	0.0	33-102		44	33-102
2-Fluorophenol	N	0.0	28-104	N	26	28-104
Nitrobenzene-d5	N	0.0	22-109		34	22-109
Phenol-d5	N	0.0	27-103	N	25	27-103
Terphenyl-d14	N	0.0	41-120		52	41-120

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

PCBs by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-001
Description: T101-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1430	% Solids: 43.8 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8082	10	02/25/2008 1240	JCG	02/21/2008 1911	73704

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aroclor 1016	12674-11-2	8082	ND		380	25	ug/kg	1
Aroclor 1221	11104-28-2	8082	ND		380	220	ug/kg	1
Aroclor 1232	11141-16-5	8082	ND		380	74	ug/kg	1
Aroclor 1242	53469-21-9	8082	ND		380	52	ug/kg	1
Aroclor 1248	12672-29-6	8082	ND		380	85	ug/kg	1
Aroclor 1254	11097-69-1	8082	ND		380	40	ug/kg	1
Aroclor 1260	11096-82-5	8082	ND		380	130	ug/kg	1
Aroclor 1262	37324-23-5	8082	ND		380	180	ug/kg	1
Aroclor 1268	11100-14-4	8082	ND		380	180	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		76	50-130
Tetrachloro-m-xylene		60	50-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-001
Description: T101-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1430	% Solids: 43.8 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8081A	40	02/22/2008 1728	JCG	02/21/2008 1911	73703

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	140	J	150	30	ug/kg	1
alpha-BHC	319-84-6	8081A	100	J	150	35	ug/kg	1
beta-BHC	319-85-7	8081A	ND		150	27	ug/kg	1
delta-BHC	319-86-8	8081A	ND		150	29	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081A	ND		150	32	ug/kg	1
alpha-Chlordane	5103-71-9	8081A	28	J	150	26	ug/kg	1
gamma-Chlordane	5103-74-2	8081A	ND		150	22	ug/kg	1
4,4'-DDD	72-54-8	8081A	74	J	150	22	ug/kg	1
4,4'-DDE	72-55-9	8081A	ND		150	29	ug/kg	1
4,4'-DDT	50-29-3	8081A	ND		150	25	ug/kg	1
Dieldrin	60-57-1	8081A	ND		150	30	ug/kg	1
Endosulfan I	959-98-8	8081A	ND		150	30	ug/kg	1
Endosulfan II	33213-65-9	8081A	58	J	150	22	ug/kg	1
Endosulfan sulfate	1031-07-8	8081A	71	J	150	21	ug/kg	1
Endrin	72-20-8	8081A	60	J	150	30	ug/kg	1
Endrin aldehyde	7421-93-4	8081A	120	J	150	27	ug/kg	1
Endrin ketone	53494-70-5	8081A	77	J	150	20	ug/kg	1
Heptachlor	76-44-8	8081A	54	J	150	35	ug/kg	1
Heptachlor epoxide	1024-57-3	8081A	100	J	150	28	ug/kg	1
Methoxychlor	72-43-5	8081A	ND		600	120	ug/kg	1
Toxaphene	8001-35-2	8081A	ND		7400	820	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		77	50-130
Tetrachloro-m-xylene		95	50-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-001
Description: T101-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1430	% Solids: 43.8 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7471A	1	02/19/2008 2135	FLW	02/19/2008 1930	73574
1	3050B	6010B	1	02/20/2008 1759	MNM	02/18/2008 1344	73549
2	3050B	6010B	5	02/21/2008 1923	FTS	02/18/2008 1344	73549

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	40000		23	2.9	mg/kg	1
Antimony	7440-36-0	6010B	16		1.1	0.41	mg/kg	1
Arsenic	7440-38-2	6010B	10		1.1	0.43	mg/kg	1
Barium	7440-39-3	6010B	520		3.0	0.21	mg/kg	1
Beryllium	7440-41-7	6010B	0.26	J	0.46	0.064	mg/kg	1
Cadmium	7440-43-9	6010B	9.0	B	0.23	0.024	mg/kg	1
Calcium	7440-70-2	6010B	11000	B	570	40	mg/kg	1
Chromium	7440-47-3	6010B	60	B	0.57	0.12	mg/kg	1
Cobalt	7440-48-4	6010B	9.4	B	3.0	0.21	mg/kg	1
Copper	7440-50-8	6010B	640		0.57	0.11	mg/kg	1
Iron	7439-89-6	6010B	15000	B	11	3.8	mg/kg	1
Lead	7439-92-1	6010B	86	J	5.7	1.0	mg/kg	2
Magnesium	7439-95-4	6010B	6800		570	42	mg/kg	1
Manganese	7439-96-5	6010B	130	B	1.7	0.13	mg/kg	1
Mercury	7439-97-6	7471A	0.20		0.19	0.013	mg/kg	1
Nickel	7440-02-0	6010B	160	J	4.6	0.34	mg/kg	1
Potassium	7440-09-7	6010B	4900		570	25	mg/kg	1
Selenium	7782-49-2	6010B	3.0		1.1	0.40	mg/kg	1
Silver	7440-22-4	6010B	ND	J	0.57	0.096	mg/kg	1
Sodium	7440-23-5	6010B	77000	B	2800	200	mg/kg	2
Thallium	7440-28-0	6010B	1.6	J	5.7	0.58	mg/kg	1
Vanadium	7440-62-2	6010B	240		5.7	0.34	mg/kg	1
Zinc	7440-66-6	6010B	1800	J	5.7	0.78	mg/kg	1

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PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	200	02/20/2008 1749	LJH		73663	4.64

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		5600	1900	ug/kg	1
Benzene	71-43-2	8260B	530	J	1400	310	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		1400	470	ug/kg	1
Bromoform	75-25-2	8260B	ND		1400	200	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		1400	500	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		2800	670	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		1400	360	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		1400	500	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		1400	470	ug/kg	1
Chloroethane	75-00-3	8260B	ND		1400	360	ug/kg	1
Chloroform	67-66-3	8260B	ND		1400	230	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		1400	280	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		1400	190	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		1400	420	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		1400	470	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		1400	240	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		1400	470	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		1400	470	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		1400	470	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		1400	450	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		1400	200	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		1400	280	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		1400	470	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		1400	210	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		1400	420	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		1400	250	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		1400	190	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		1400	230	ug/kg	1
Ethylbenzene	100-41-4	8260B	9700		1400	470	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		2800	360	ug/kg	1
Isopropylbenzene	98-82-8	8260B	3100		1400	220	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		1400	190	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	250	J	1400	110	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	1600	J	2800	420	ug/kg	1
Methylcyclohexane	108-87-2	8260B	620	J	1400	170	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		1400	730	ug/kg	1
Styrene	100-42-5	8260B	ND		1400	310	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		1400	130	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		1400	640	ug/kg	1
Toluene	108-88-3	8260B	16000		1400	470	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		1400	590	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		1400	470	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		1400	240	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		1400	220	ug/kg	1

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL
 E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	200	02/20/2008 1749	LJH		73663	4.64

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		1400	530	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		1400	420	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		1400	240	ug/kg	1
Xylenes (total)	1330-20-7	8260B	57000		1400	810	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		98	53-142
Bromofluorobenzene		72	47-138
Toluene-d8		68	68-124

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	200	02/20/2008 1749	LJH		73666

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Unknown		8260B	74000	J			ug/kg	1
Benzene, 1-ethyl-3-methyl-		8260B	18000	NJ			ug/kg	1
Benzene, 1-ethyl-2-methyl-		8260B	6400				ug/kg	1
Benzene, 1,3,5-trimethyl-		8260B	24000				ug/kg	1
Benzene, 1,3-diethyl-		8260B	17000				ug/kg	1
Benzene, 2-ethyl-1,4-dimethyl-		8260B	12000				ug/kg	1
Benzene, 1-ethyl-2,4-dimethyl-		8260B	8200				ug/kg	1
Benzene, (1-methyl-1-propenyl)-, (E)-		8260B	7400				ug/kg	1
Benzene, 1,2,3,5-tetramethyl-		8260B	9900				ug/kg	1
1-Phenyl-1-butene		8260B	10000	NJ			ug/kg	1

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PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/21/2008 1930	GLR		73790

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Tridecane		8270C	180000	NS			ug/kg	1
Tetradecane		8270C	200000				ug/kg	1
Pentadecane		8270C	320000				ug/kg	1
Hexadecane		8270C	230000				ug/kg	1
Tridecane, 5-propyl-		8270C	160000				ug/kg	1
Heptadecane		8270C	600000				ug/kg	1
Octadecane		8270C	360000				ug/kg	1
n-Hexyl salicylate		8270C	240000				ug/kg	1
Nonadecane		8270C	470000				ug/kg	1
n-Hexadecanoic acid		8270C	250000				ug/kg	1
Phenanthrene, 2-methyl-		8270C	250000				ug/kg	1
Eicosane		8270C	370000				ug/kg	1
Heneicosane		8270C	290000				ug/kg	1
Docosane		8270C	130000				ug/kg	1
2-Propenoic acid, 3-(4-methoxyphenyl)-		8270C	240000				ug/kg	1
Octadecane, 2-methyl-		8270C	160000				ug/kg	1
Tetracosane		8270C	210000				ug/kg	1
Hexacosane		8270C	110000				ug/kg	1
Octadecane, 1-iodo-		8270C	130000	NS			ug/kg	1

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PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/21/2008 1930	GLR	02/20/2008 2000	73612

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	23000		8500	260	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		8500	340	ug/kg	1
Acetophenone	98-86-2	8270C	ND		8500	500	ug/kg	1
Anthracene	120-12-7	8270C	40000		8500	380	ug/kg	1
Atrazine	1912-24-9	8270C	ND		8500	2600	ug/kg	1
Benzaldehyde	100-52-7	8270C	ND		21000	680	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	5600	J	8500	280	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		8500	620	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		8500	570	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		8500	580	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		8500	700	ug/kg	1
1,1'-Biphenyl	92-52-4	8270C	ND		8500	780	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		8500	360	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	75000		8500	2800	ug/kg	1
Caprolactam	105-60-2	8270C	ND		21000	630	ug/kg	1
Carbazole	86-74-8	8270C	ND		8500	250	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		8500	470	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		8500	440	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		8500	380	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		8500	360	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		8500	320	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		8500	410	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		8500	360	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		8500	340	ug/kg	1
Chrysene	218-01-9	8270C	10000		8500	260	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	ND		8500	2800	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		8500	2800	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		8500	560	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		8500	330	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		21000	1500	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		8500	340	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		8500	2800	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		8500	2800	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		8500	440	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		21000	990	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		21000	170	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		8500	620	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		8500	740	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	48000		8500	2800	ug/kg	1
Fluoranthene	206-44-0	8270C	14000		8500	270	ug/kg	1
Fluorene	86-73-7	8270C	32000		8500	330	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		8500	340	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		8500	350	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		21000	1600	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/21/2008 1930	GLR	02/20/2008 2000	73612

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270C	ND		8500	420	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		8500	770	ug/kg	1
Isophorone	78-59-1	8270C	ND		8500	400	ug/kg	1
2-Methylnaphthalene	91-57-6	8270C	190000		8500	310	ug/kg	1
2-Methylphenol	95-48-7	8270C	ND		8500	480	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		17000	800	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		8500	440	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		8500	280	ug/kg	1
Naphthalene	91-20-3	8270C	63000		8500	360	ug/kg	1
2-Nitroaniline	88-74-4	8270C	ND		8500	600	ug/kg	1
3-Nitroaniline	99-09-2	8270C	ND		8500	610	ug/kg	1
4-Nitroaniline	100-01-6	8270C	ND		8500	500	ug/kg	1
Nitrobenzene	98-95-3	8270C	ND		8500	390	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		8500	920	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		21000	3700	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		21000	900	ug/kg	1
Phenanthrene	85-01-8	8270C	94000		8500	340	ug/kg	1
Phenol	108-95-2	8270C	3000	J	8500	410	ug/kg	1
Pyrene	129-00-0	8270C	26000		8500	370	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		8500	440	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		8500	470	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol	N	0.0	30-117
2-Fluorobiphenyl	N	0.0	33-102
2-Fluorophenol	N	0.0	28-104
Nitrobenzene-d5	N	0.0	22-109
Phenol-d5	N	0.0	27-103
Terphenyl-d14	N	0.0	41-120

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

PCBs by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8082	5	02/25/2008 1253	JCG	02/21/2008 1911	73704

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aroclor 1016	12674-11-2	8082	ND		110	7.0	ug/kg	1
Aroclor 1221	11104-28-2	8082	ND		110	62	ug/kg	1
Aroclor 1232	11141-16-5	8082	ND		110	21	ug/kg	1
Aroclor 1242	53469-21-9	8082	ND		110	15	ug/kg	1
Aroclor 1248	12672-29-6	8082	ND		110	24	ug/kg	1
Aroclor 1254	11097-69-1	8082	ND		110	12	ug/kg	1
Aroclor 1260	11096-82-5	8082	ND		110	36	ug/kg	1
Aroclor 1262	37324-23-5	8082	ND		110	51	ug/kg	1
Aroclor 1268	11100-14-4	8082	ND		110	51	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		64	50-130
Tetrachloro-m-xylene	N	168	50-130

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8081A	100	02/22/2008 1745	JCG	02/21/2008 1911	73703

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	ND		220	44	ug/kg	1
alpha-BHC	319-84-6	8081A	110	J	220	50	ug/kg	1
beta-BHC	319-85-7	8081A	ND		220	38	ug/kg	1
delta-BHC	319-86-8	8081A	ND		220	41	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081A	1700	PJ	220	46	ug/kg	1
alpha-Chlordane	5103-71-9	8081A	ND		220	37	ug/kg	1
gamma-Chlordane	5103-74-2	8081A	ND		220	31	ug/kg	1
4,4'-DDD	72-54-8	8081A	170	J	220	32	ug/kg	1
4,4'-DDE	72-55-9	8081A	ND		220	41	ug/kg	1
4,4'-DDT	50-29-3	8081A	ND		220	36	ug/kg	1
Dieldrin	60-57-1	8081A	ND		220	42	ug/kg	1
Endosulfan I	959-98-8	8081A	ND		220	44	ug/kg	1
Endosulfan II	33213-65-9	8081A	87	J	220	32	ug/kg	1
Endosulfan sulfate	1031-07-8	8081A	ND		220	30	ug/kg	1
Endrin	72-20-8	8081A	110	J	220	42	ug/kg	1
Endrin aldehyde	7421-93-4	8081A	330	J	220	38	ug/kg	1
Endrin ketone	53494-70-5	8081A	ND		220	28	ug/kg	1
Heptachlor	76-44-8	8081A	1500	J	220	50	ug/kg	1
Heptachlor epoxide	1024-57-3	8081A	1900	PJ	220	40	ug/kg	1
Methoxychlor	72-43-5	8081A	ND		860	170	ug/kg	1
Toxaphene	8001-35-2	8081A	ND		11000	1200	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	144	50-130
Tetrachloro-m-xylene		108	50-130

HVE
2/22/08

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-002
Description: T13-PR-01/Solid Product	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7471A	1	02/19/2008 2136	FLW	02/19/2008 1930	73574
1	3050B	6010B	1	02/20/2008 1806	MNM	02/18/2008 1344	73549
4	3050B	6010B	20	04/18/2008 1511	MNM	04/16/2008 1620	77189

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	16000		13	1.6	mg/kg	1
Antimony	7440-36-0	6010B	12		0.65	0.23	mg/kg	1
Arsenic	7440-38-2	6010B	0.84		0.65	0.24	mg/kg	1
Barium	7440-39-3	6010B	140		1.7	0.12	mg/kg	1
Beryllium	7440-41-7	6010B	0.31		0.26	0.036	mg/kg	1
Cadmium	7440-43-9	6010B	4.6	B	0.13	0.014	mg/kg	1
Calcium	7440-70-2	6010B	18000	B	320	23	mg/kg	1
Chromium	7440-47-3	6010B	160	B	0.32	0.066	mg/kg	1
Cobalt	7440-48-4	6010B	14	B	1.7	0.12	mg/kg	1
Copper	7440-50-8	6010B	1900	B	0.32	0.063	mg/kg	1
Iron	7439-89-6	6010B	130000	B	130	43	mg/kg	4
Lead	7439-92-1	6010B	350	J	13	2.4	mg/kg	4
Magnesium	7439-95-4	6010B	2700		320	24	mg/kg	1
Manganese	7439-96-5	6010B	630	B	0.97	0.075	mg/kg	1
Mercury	7439-97-6	7471A	ND		0.11	0.0076	mg/kg	1
Nickel	7440-02-0	6010B	190	J	2.6	0.19	mg/kg	1
Potassium	7440-09-7	6010B	1300		320	14	mg/kg	1
Selenium	7782-49-2	6010B	ND		0.65	0.22	mg/kg	1
Silver	7440-22-4	6010B	0.86	J B	0.32	0.054	mg/kg	1
Sodium	7440-23-5	6010B	28000	B	6500	440	mg/kg	4
Thallium	7440-28-0	6010B	18		3.2	0.33	mg/kg	1
Vanadium	7440-62-2	6010B	110	J	3.2	0.19	mg/kg	1
Zinc	7440-66-6	6010B	3100	J	3.2	0.44	mg/kg	1

HUG
2 Jun 08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-003
Description: BCX-TS-02	Matrix: Aqueous
Date Sampled: 02/15/2008 1415	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/18/2008 1732	CMS		73495

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-003
Description: BCX-TS-02	Matrix: Aqueous
Date Sampled: 02/15/2008 1415	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/18/2008 1732	CMS		73495

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		86	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-004
Description: BCX-FL-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/18/2008 1754	CMS		73495

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-004
Description: BCX-FL-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/18/2008 1754	CMS		73495

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		102	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-004
Description: BCX-FL-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1				73527

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
None Detected		8260B					ug/L	1

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and \geq MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-004
Description: BCX-FL-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	02/24/2008 2055	GLR		73891

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Unknown Aldol Condensate		8270C	28				ug/L	1

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and \geq MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.

Laboratory ID: JB16010-004

Description: BCX-FL-01

Matrix: Aqueous

Date Sampled: 02/15/2008 1315

Date Received: 02/16/2008

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3520C	8270C	1	02/24/2008 2055	GLR	02/20/2008 2115	73631			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Acenaphthene	83-32-9	8270C	ND		5.0	1.2	ug/L	1		
Acenaphthylene	208-96-8	8270C	ND		5.0	1.2	ug/L	1		
Acetophenone	98-86-2	8270C	ND		5.0	0.90	ug/L	1		
Anthracene	120-12-7	8270C	ND		5.0	1.1	ug/L	1		
Atrazine	1912-24-9	8270C	ND		5.0	4.2	ug/L	1		
Benzaldehyde	100-52-7	8270C	ND		25	3.0	ug/L	1		
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.60	ug/L	1		
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	0.50	ug/L	1		
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.60	ug/L	1		
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.80	ug/L	1		
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1		
1,1'-Biphenyl	92-52-4	8270C	ND		5.0	1.3	ug/L	1		
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	1.2	ug/L	1		
Butyl benzyl phthalate	85-68-7	8270C	ND		10	3.3	ug/L	1		
Caprolactam	105-60-2	8270C	ND		25	1.2	ug/L	1		
Carbazole	86-74-8	8270C	ND		5.0	1.7	ug/L	1		
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	1.6	ug/L	1		
4-Chloroaniline	106-47-8	8270C	ND		5.0	0.81	ug/L	1		
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	1.5	ug/L	1		
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	1.2	ug/L	1		
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	1.3	ug/L	1		
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	1.3	ug/L	1		
2-Chlorophenol	95-57-8	8270C	ND		5.0	1.4	ug/L	1		
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	1.6	ug/L	1		
Chrysene	218-01-9	8270C	ND		5.0	0.70	ug/L	1		
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.7	ug/L	1		
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	1.7	ug/L	1		
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	1.3	ug/L	1		
Dibenzofuran	132-64-9	8270C	ND		5.0	1.2	ug/L	1		
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	2.6	ug/L	1		
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	1.2	ug/L	1		
Diethylphthalate	84-66-2	8270C	ND		5.0	1.9	ug/L	1		
Dimethyl phthalate	131-11-3	8270C	ND		5.0	1.7	ug/L	1		
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	1.4	ug/L	1		
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	8.1	ug/L	1		
2,4-Dinitrophenol	51-28-5	8270C	ND		25	4.8	ug/L	1		
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	3.8	ug/L	1		
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	3.4	ug/L	1		
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	1.7	ug/L	1		
Fluoranthene	206-44-0	8270C	ND		5.0	1.4	ug/L	1		
Fluorene	86-73-7	8270C	ND		5.0	1.4	ug/L	1		
Hexachlorobenzene	118-74-1	8270C	ND		5.0	1.2	ug/L	1		
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	1.4	ug/L	1		
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	4.0	ug/L	1		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-004
Description: BCX-FL-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	02/24/2008 2055	GLR	02/20/2008 2115	73631

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270C	ND		5.0	1.2	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	2.3	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	1.4	ug/L	1
2-Methylnaphthalene	91-57-6	8270C	ND		5.0	1.5	ug/L	1
2-Methylphenol	95-48-7	8270C	ND		5.0	1.1	ug/L	1
3 & 4-Methylphenol	106-44-5	8270C	ND		10	2.7	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	1.4	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		5.0	1.0	ug/L	1
Naphthalene	91-20-3	8270C	ND		5.0	1.3	ug/L	1
2-Nitroaniline	88-74-4	8270C	ND		10	2.1	ug/L	1
3-Nitroaniline	99-09-2	8270C	ND		10	3.0	ug/L	1
4-Nitroaniline	100-01-6	8270C	ND		10	4.2	ug/L	1
Nitrobenzene	98-95-3	8270C	ND		5.0	1.6	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	2.9	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	9.0	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	5.1	ug/L	1
Phenanthrene	85-01-8	8270C	ND		5.0	1.2	ug/L	1
Phenol	108-95-2	8270C	ND		5.0	1.2	ug/L	1
Pyrene	129-00-0	8270C	ND		5.0	3.1	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		5.0	1.2	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	1.3	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		101	41-144
2-Fluorobiphenyl		103	37-129
2-Fluorophenol		105	24-127
Nitrobenzene-d5		109	38-127
Phenol-d5		107	28-128
Terphenyl-d14		110	10-148

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

PCBs by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-004
Description: BCX-FL-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8082	1	02/25/2008 1914	JCG	02/21/2008 2215	73718

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aroclor 1016	12674-11-2	8082	ND		0.25	0.050	ug/L	1
Aroclor 1221	11104-28-2	8082	ND		0.25	0.14	ug/L	1
Aroclor 1232	11141-16-5	8082	ND		0.25	0.20	ug/L	1
Aroclor 1242	53469-21-9	8082	ND		0.25	0.14	ug/L	1
Aroclor 1248	12672-29-6	8082	ND		0.25	0.15	ug/L	1
Aroclor 1254	11097-69-1	8082	ND		0.25	0.11	ug/L	1
Aroclor 1260	11096-82-5	8082	ND		0.25	0.060	ug/L	1
Aroclor 1262	37324-23-5	8082	ND		0.25	0.10	ug/L	1
Aroclor 1268	11100-14-4	8082	ND		0.25	0.10	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		64	10-156
Tetrachloro-m-xylene		105	48-133

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-004
Description: BCX-FL-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081A	1	02/25/2008 2308	JCG	02/21/2008 2215	73717

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	ND		0.025	0.0020	ug/L	1
alpha-BHC	319-84-6	8081A	ND		0.025	0.0030	ug/L	1
beta-BHC	319-85-7	8081A	0.61 U-BP		0.025	0.019	ug/L	1
delta-BHC	319-86-8	8081A	ND		0.025	0.0080	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081A	ND		0.025	0.0050	ug/L	1
alpha-Chlordane	5103-71-9	8081A	ND		0.025	0.0030	ug/L	1
gamma-Chlordane	5103-74-2	8081A	ND		0.025	0.0030	ug/L	1
4,4'-DDD	72-54-8	8081A	ND		0.025	0.0060	ug/L	1
4,4'-DDE	72-55-9	8081A	ND		0.025	0.0060	ug/L	1
4,4'-DDT	50-29-3	8081A	ND		0.025	0.0030	ug/L	1
Dieldrin	60-57-1	8081A	ND		0.025	0.0040	ug/L	1
Endosulfan I	959-98-8	8081A	ND		0.025	0.0060	ug/L	1
Endosulfan II	33213-65-9	8081A	ND		0.025	0.024	ug/L	1
Endosulfan sulfate	1031-07-8	8081A	ND		0.025	0.0030	ug/L	1
Endrin	72-20-8	8081A	ND		0.025	0.0050	ug/L	1
Endrin aldehyde	7421-93-4	8081A	ND		0.025	0.0030	ug/L	1
Endrin ketone	53494-70-5	8081A	ND		0.025	0.0040	ug/L	1
Heptachlor	76-44-8	8081A	ND		0.025	0.020	ug/L	1
Heptachlor epoxide	1024-57-3	8081A	ND		0.025	0.0030	ug/L	1
Methoxychlor	72-43-5	8081A	ND		0.10	0.014	ug/L	1
Toxaphene	8001-35-2	8081A	ND		0.25	0.030	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		65	10-156
Tetrachloro-m-xylene		109	48-133

HOE
2 Jun 08

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-004
Description: BCX-FL-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	02/18/2008 2153	FLW	02/18/2008 1712	73509
1	3005A	6010B	1	02/20/2008 2140	MNM	02/18/2008 1944	73514

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	ND		0.20	0.044	mg/L	1
Antimony	7440-36-0	6010B	ND		0.010	0.0028	mg/L	1
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010B	ND		0.025	0.0075	mg/L	1
Beryllium	7440-41-7	6010B	ND		0.0040	0.0012	mg/L	1
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Calcium	7440-70-2	6010B	ND		5.0	1.0	mg/L	1
Chromium	7440-47-3	6010B	ND		0.0050	0.0021	mg/L	1
Cobalt	7440-48-4	6010B	ND		0.025	0.0062	mg/L	1
Copper	7440-50-8	6010B	ND		0.0050	0.0015	mg/L	1
Iron	7439-89-6	6010B	ND		0.10	0.023	mg/L	1
Lead	7439-92-1	6010B	ND		0.010	0.0019	mg/L	1
Magnesium	7439-95-4	6010B	ND		5.0	1.2	mg/L	1
Manganese	7439-96-5	6010B	ND		0.015	0.0049	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Nickel	7440-02-0	6010B	ND		0.040	0.010	mg/L	1
Potassium	7440-09-7	6010B	ND		5.0	1.1	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1
Sodium	7440-23-5	6010B	ND		5.0	1.2	mg/L	1
Thallium	7440-28-0	6010B	0.0074	U-BJ	0.050	0.0045	mg/L	1
Vanadium	7440-62-2	6010B	ND		0.050	0.013	mg/L	1
Zinc	7440-66-6	6010B	ND		0.020	0.0045	mg/L	1

HUG
2 Jun 08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-005
Description: BCX-EB-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	02/18/2008 1815	CMS		73495			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1		
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1		
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1		
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1		
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1		
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1		
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1		
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1		
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1		
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1		
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1		
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1		
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1		
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1		
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1		
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1		
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1		
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1		
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1		
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1		
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1		
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1		
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1		
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1		
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1		
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1		
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1		
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1		
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1		
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1		
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1		
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1		
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1		

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-005
Description: BCX-EB-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/18/2008 1815	CMS		73495

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		87	70-130
Bromofluorobenzene		103	70-130
Toluene-d8		98	70-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-005
Description: BCX-EB-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/18/2008 1815	DLB		73527

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Unknown		8260B	55	J			ug/L	1
Ethane, 1,1-difluoro-		8260B	52	NJ			ug/L	1

HV6
 2 Jun 08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-005
Description: BCX-EB-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1				73891

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
None Detected		8270C					ug/L	1

PQL = Practical quantitation limit
ND = Not detected at or above the MDL
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
J = Estimated result < PQL and \geq MDL

E = Quantitation of compound exceeded the calibration range
P = The RPD between two GC columns exceeds 40%
N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.

Laboratory ID: JB16010-005

Description: BCX-EB-01

Matrix: Aqueous

Date Sampled: 02/15/2008 1315

Date Received: 02/16/2008

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3520C	8270C	1	02/24/2008 2114	GLR	02/20/2008 2115	73631			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Acenaphthene	83-32-9	8270C	ND		5.0	1.2	ug/L	1		
Acenaphthylene	208-96-8	8270C	ND		5.0	1.2	ug/L	1		
Acetophenone	98-86-2	8270C	ND		5.0	0.90	ug/L	1		
Anthracene	120-12-7	8270C	ND		5.0	1.1	ug/L	1		
Atrazine	1912-24-9	8270C	ND		5.0	4.2	ug/L	1		
Benzaldehyde	100-52-7	8270C	ND		25	3.0	ug/L	1		
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.60	ug/L	1		
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	0.50	ug/L	1		
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.60	ug/L	1		
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.80	ug/L	1		
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1		
1,1'-Biphenyl	92-52-4	8270C	ND		5.0	1.3	ug/L	1		
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	1.2	ug/L	1		
Butyl benzyl phthalate	85-68-7	8270C	ND		10	3.3	ug/L	1		
Caprolactam	105-60-2	8270C	ND		25	1.2	ug/L	1		
Carbazole	86-74-8	8270C	ND		5.0	1.7	ug/L	1		
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	1.6	ug/L	1		
4-Chloroaniline	106-47-8	8270C	ND		5.0	0.81	ug/L	1		
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	1.5	ug/L	1		
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	1.2	ug/L	1		
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	1.3	ug/L	1		
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	1.3	ug/L	1		
2-Chlorophenol	95-57-8	8270C	ND		5.0	1.4	ug/L	1		
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	1.6	ug/L	1		
Chrysene	218-01-9	8270C	ND		5.0	0.70	ug/L	1		
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.7	ug/L	1		
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	1.7	ug/L	1		
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	1.3	ug/L	1		
Dibenzofuran	132-64-9	8270C	ND		5.0	1.2	ug/L	1		
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	2.6	ug/L	1		
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	1.2	ug/L	1		
Diethylphthalate	84-66-2	8270C	ND		5.0	1.9	ug/L	1		
Dimethyl phthalate	131-11-3	8270C	ND		5.0	1.7	ug/L	1		
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	1.4	ug/L	1		
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	8.1	ug/L	1		
2,4-Dinitrophenol	51-28-5	8270C	ND		25	4.8	ug/L	1		
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	3.8	ug/L	1		
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	3.4	ug/L	1		
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	ND		5.0	1.7	ug/L	1		
Fluoranthene	206-44-0	8270C	ND		5.0	1.4	ug/L	1		
Fluorene	86-73-7	8270C	ND		5.0	1.4	ug/L	1		
Hexachlorobenzene	118-74-1	8270C	ND		5.0	1.2	ug/L	1		
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	1.4	ug/L	1		
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	4.0	ug/L	1		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-005
Description: BCX-EB-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	02/24/2008 2114	GLR	02/20/2008 2115	73631

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270C	ND		5.0	1.2	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	2.3	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	1.4	ug/L	1
2-Methylnaphthalene	91-57-6	8270C	ND		5.0	1.5	ug/L	1
2-Methylphenol	95-48-7	8270C	ND		5.0	1.1	ug/L	1
3 & 4-Methylphenol	106-44-5	8270C	ND		10	2.7	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	1.4	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		5.0	1.0	ug/L	1
Naphthalene	91-20-3	8270C	ND		5.0	1.3	ug/L	1
2-Nitroaniline	88-74-4	8270C	ND		10	2.1	ug/L	1
3-Nitroaniline	99-09-2	8270C	ND		10	3.0	ug/L	1
4-Nitroaniline	100-01-6	8270C	ND		10	4.2	ug/L	1
Nitrobenzene	98-95-3	8270C	ND		5.0	1.6	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	2.9	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	9.0	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	5.1	ug/L	1
Phenanthrene	85-01-8	8270C	ND		5.0	1.2	ug/L	1
Phenol	108-95-2	8270C	ND		5.0	1.2	ug/L	1
Pyrene	129-00-0	8270C	ND		5.0	3.1	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		5.0	1.2	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	1.3	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		95	41-144
2-Fluorobiphenyl		94	37-129
2-Fluorophenol		90	24-127
Nitrobenzene-d5		95	38-127
Phenol-d5		92	28-128
Terphenyl-d14		118	10-148

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

PCBs by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-005
Description: BCX-EB-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8082	1	02/25/2008 1927	JCG	02/21/2008 2215	73718

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aroclor 1016	12674-11-2	8082	ND		0.25	0.050	ug/L	1
Aroclor 1221	11104-28-2	8082	ND		0.25	0.14	ug/L	1
Aroclor 1232	11141-16-5	8082	ND		0.25	0.20	ug/L	1
Aroclor 1242	53469-21-9	8082	ND		0.25	0.14	ug/L	1
Aroclor 1248	12672-29-6	8082	ND		0.25	0.15	ug/L	1
Aroclor 1254	11097-69-1	8082	ND		0.25	0.11	ug/L	1
Aroclor 1260	11096-82-5	8082	ND		0.25	0.060	ug/L	1
Aroclor 1262	37324-23-5	8082	ND		0.25	0.10	ug/L	1
Aroclor 1268	11100-14-4	8082	ND		0.25	0.10	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		74	10-156
Tetrachloro-m-xylene		95	48-133

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-005
Description: BCX-EB-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8081A	1	02/25/2008 2325	JCG	02/21/2008 2215	73717

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	ND		0.025	0.0020	ug/L	1
alpha-BHC	319-84-6	8081A	ND		0.025	0.0030	ug/L	1
beta-BHC	319-85-7	8081A	0.34	U-BP	0.025	0.019	ug/L	1
delta-BHC	319-86-8	8081A	ND		0.025	0.0080	ug/L	1
gamma-BHC (Lindane)	58-89-9	8081A	ND		0.025	0.0050	ug/L	1
alpha-Chlordane	5103-71-9	8081A	ND		0.025	0.0030	ug/L	1
gamma-Chlordane	5103-74-2	8081A	ND		0.025	0.0030	ug/L	1
4,4'-DDD	72-54-8	8081A	ND		0.025	0.0060	ug/L	1
4,4'-DDE	72-55-9	8081A	ND		0.025	0.0060	ug/L	1
4,4'-DDT	50-29-3	8081A	ND		0.025	0.0030	ug/L	1
Dieldrin	60-57-1	8081A	ND		0.025	0.0040	ug/L	1
Endosulfan I	959-98-8	8081A	ND		0.025	0.0060	ug/L	1
Endosulfan II	33213-65-9	8081A	ND		0.025	0.024	ug/L	1
Endosulfan sulfate	1031-07-8	8081A	ND		0.025	0.0030	ug/L	1
Endrin	72-20-8	8081A	ND		0.025	0.0050	ug/L	1
Endrin aldehyde	7421-93-4	8081A	ND		0.025	0.0030	ug/L	1
Endrin ketone	53494-70-5	8081A	ND		0.025	0.0040	ug/L	1
Heptachlor	76-44-8	8081A	ND		0.025	0.020	ug/L	1
Heptachlor epoxide	1024-57-3	8081A	ND		0.025	0.0030	ug/L	1
Methoxychlor	72-43-5	8081A	ND		0.10	0.014	ug/L	1
Toxaphene	8001-35-2	8081A	ND		0.25	0.030	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		74	10-156
Tetrachloro-m-xylene		101	48-133

HUG
2 Jun 08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JB16010-005
Description: BCX-EB-01	Matrix: Aqueous
Date Sampled: 02/15/2008 1315	
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	02/18/2008 2157	FLW	02/18/2008 1712	73509
1	3005A	6010B	1	02/20/2008 2144	MNM	02/18/2008 1944	73514

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	ND		0.20	0.044	mg/L	1
Antimony	7440-36-0	6010B	ND		0.010	0.0028	mg/L	1
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010B	ND		0.025	0.0075	mg/L	1
Beryllium	7440-41-7	6010B	ND		0.0040	0.0012	mg/L	1
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Calcium	7440-70-2	6010B	ND		5.0	1.0	mg/L	1
Chromium	7440-47-3	6010B	ND		0.0050	0.0021	mg/L	1
Cobalt	7440-48-4	6010B	ND		0.025	0.0062	mg/L	1
Copper	7440-50-8	6010B	0.0040	J	0.0050	0.0015	mg/L	1
Iron	7439-89-6	6010B	ND		0.10	0.023	mg/L	1
Lead	7439-92-1	6010B	ND		0.010	0.0019	mg/L	1
Magnesium	7439-95-4	6010B	ND		5.0	1.2	mg/L	1
Manganese	7439-96-5	6010B	ND		0.015	0.0049	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Nickel	7440-02-0	6010B	ND		0.040	0.010	mg/L	1
Potassium	7440-09-7	6010B	ND		5.0	1.1	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	ND		0.0050	0.00040	mg/L	1
Sodium	7440-23-5	6010B	ND		5.0	1.2	mg/L	1
Thallium	7440-28-0	6010B	0.0057	U-B	0.050	0.0045	mg/L	1
Vanadium	7440-62-2	6010B	ND		0.050	0.013	mg/L	1
Zinc	7440-66-6	6010B	0.028	J-B	0.020	0.0045	mg/L	1

HVE
2 Jun 08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JC07005-001
Description: T13-PR-01	Matrix: Solid
Date Sampled: 02/15/2008 1415	% Solids: 77.1 02/18/2008 2241
Date Received: 02/16/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8081A	200	03/13/2008 1405	JCG	03/10/2008 1457	74815
2	3550B	8081A	400	03/13/2008 1700	JCG	03/10/2008 1457	74815

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	ND		440 <i>u</i>	88	ug/kg	1
alpha-BHC	319-84-6	8081A	ND		440 <i>u</i>	100	ug/kg	1
beta-BHC	319-85-7	8081A	550	B	440	78	ug/kg	1
delta-BHC	319-86-8	8081A	ND		440 <i>u</i>	83	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081A	1000	B	440	93	ug/kg	1
alpha-Chlordane	5103-71-9	8081A	ND		440 <i>u</i>	75	ug/kg	1
gamma-Chlordane	5103-74-2	8081A	ND		880 <i>u</i>	120	ug/kg	2
4,4'-DDD	72-54-8	8081A	900	B	440	64	ug/kg	1
4,4'-DDE	72-55-9	8081A	ND		440 <i>u</i>	83	ug/kg	1
4,4'-DDT	50-29-3	8081A	ND		880	140	ug/kg	2
Dieldrin	60-57-1	8081A	ND		440	85	ug/kg	1
Endosulfan I	959-98-8	8081A	ND		440	88	ug/kg	1
Endosulfan II	33213-65-9	8081A	ND		440	64	ug/kg	1
Endosulfan sulfate	1031-07-8	8081A	ND		440	59	ug/kg	1
Endrin	72-20-8	8081A	ND		440	85	ug/kg	1
Endrin aldehyde	7421-93-4	8081A	ND		440	78	ug/kg	1
Endrin ketone	53494-70-5	8081A	ND		440 <i>u</i>	57	ug/kg	1
Heptachlor	76-44-8	8081A	480	B	440	100	ug/kg	1
Heptachlor epoxide	1024-57-3	8081A	ND		440 <i>u</i>	80	ug/kg	1
Methoxychlor	72-43-5	8081A	ND		1700 <i>u</i>	350	ug/kg	1
Toxaphene	8001-35-2	8081A	ND		21000 <i>u</i>	2400	ug/kg	1

Surrogate	Q	Run 1		Q	Run 2	
		% Recovery	Acceptance Limits		% Recovery	Acceptance Limits
Decachlorobiphenyl		92	50-130		94	50-130
Tetrachloro-m-xylene	N	0.0	50-130	N	0.0	50-130

HVE
2 Jun 08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

ENCLOSURE 2

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR
SHEALY ENVIRONMENTAL SERVICES, INC. WORK ORDER NOS. JB16010 AND JC07005**

(7 Pages)

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB16010**

Sample Designation:	BCX-EB-01	BCX-FL-01	BCX-TS-02	T101-PR-01/Solid Product	T13-PR-01/Solid Product
Sample Collection Date:	2/15/2008	2/15/2008	2/15/2008	2/15/2008	2/15/2008
Field Quality Control:	Rinsate Blank	Field Blank	Trip Blank		
Percent Solids				%	%
Percent Solids	NA	NA	NA	43.8	77.1
Volatile Organic Compounds	µg/L	µg/L	µg/L	µg/kg, dry weight	µg/kg, dry weight
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,2-Dibromoethane (EDB)	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
2-Butanone (MEK)	10 U	10 U	10 U	2400 UJ	2800 U
2-Hexanone	10 U	10 U	10 U	2400 UJ	2800 U
4-Methyl-2-pentanone	10 U	10 U	10 U	3000 J	1600 J
Acetone	20 U	20 U	20 U	4800 UJ	5600 U
Benzene	5.0 U	5.0 U	5.0 U	940 J	530 J
Bromodichloromethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Bromoform	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Bromomethane (Methyl bromide)	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Carbon disulfide	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Carbon tetrachloride	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Chloroethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Chloroform	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Chloromethane (Methyl chloride)	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Cyclohexane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB16010**

Sample Designation:	BCX-EB-01	BCX-FL-01	BCX-TS-02	T101-PR-01/Solid Product	T13-PR-01/Solid Product
Sample Collection Date:	2/15/2008	2/15/2008	2/15/2008	2/15/2008	2/15/2008
Field Quality Control:	Rinsate Blank	Field Blank	Trip Blank		
Volatile Organic Compounds (cont'd)	µg/L	µg/L	µg/L	µg/kg, dry weight	µg/kg, dry weight
Dibromochloromethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Dichlorodifluoromethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	7300 J	9700
Isopropylbenzene	5.0 U	5.0 U	5.0 U	1800 J	3100
Methyl acetate	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Methyl tertiary butyl ether (MTBE)	5.0 U	5.0 U	5.0 U	380 J	250 J
Methylcyclohexane	5.0 U	5.0 U	5.0 U	820 J	620 J
Methylene chloride	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Styrene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	3100 J	1400 U
Toluene	5.0 U	5.0 U	5.0 U	17000 J	16000
trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Trichloroethene	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Trichlorofluoromethane	5.0 U	5.0 U	5.0 U	1200 UJ	1400 U
Vinyl chloride	2.0 U	2.0 U	2.0 U	1200 UJ	1400 U
Xylenes (total)	5.0 U	5.0 U	5.0 U	47000 J	57000
Semivolatile Organic Compounds	µg/L	µg/L		µg/kg, dry weight	µg/kg, dry weight
1,1'-Biphenyl	5.0 U	5.0 U	NA	61000	8500 U
2,4,5-Trichlorophenol	5.0 U	5.0 U	NA	15000 U	8500 U
2,4,6-Trichlorophenol	5.0 U	5.0 U	NA	15000 U	8500 U
2,4-Dichlorophenol	5.0 U	5.0 U	NA	15000 U	8500 U
2,4-Dimethylphenol	5.0 U	5.0 U	NA	15000 U	8500 U
2,4-Dinitrophenol	25 U	25 U	NA	38000 U	21000 U
2,4-Dinitrotoluene	10 U	10 U	NA	15000 U	8500 U
2,6-Dinitrotoluene	10 U	10 U	NA	15000 U	8500 U
2-Chloronaphthalene	5.0 U	5.0 U	NA	15000 U	8500 U
2-Chlorophenol	5.0 U	5.0 U	NA	15000 U	8500 U
2-Methylnaphthalene	5.0 U	5.0 U	NA	240000	190000
2-Methylphenol	5.0 U	5.0 U	NA	15000 U	8500 U
2-Nitroaniline	10 U	10 U	NA	15000 U	8500 U
2-Nitrophenol	10 U	10 U	NA	15000 U	8500 U
3 & 4-Methylphenol	10 U	10 U	NA	30000 U	17000 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB16010**

Sample Designation:	BCX-EB-01	BCX-FL-01	BCX-TS-02	T101-PR-01/Solid Product	T13-PR-01/Solid Product
Sample Collection Date:	2/15/2008	2/15/2008	2/15/2008	2/15/2008	2/15/2008
Field Quality Control:	Rinsate Blank	Field Blank	Trip Blank		
Semivolatle Organic Compounds (cont'd)	µg/L	µg/L		µg/kg, dry weight	µg/kg, dry weight
3,3'-Dichlorobenzidine	25 U	25 U	NA	38000 U	21000 U
3-Nitroaniline	10 U	10 U	NA	15000 U	8500 U
4,6-Dinitro-2-methylphenol	25 U	25 U	NA	38000 U	21000 U
4-Bromophenyl phenyl ether	5.0 U	5.0 U	NA	15000 U	8500 U
4-Chloro-3-methyl phenol	5.0 U	5.0 U	NA	15000 U	8500 U
4-Chloroaniline	5.0 U	5.0 U	NA	15000 U	8500 U
4-Chlorophenyl phenyl ether	5.0 U	5.0 U	NA	15000 U	8500 U
4-Nitroaniline	10 U	10 U	NA	15000 U	8500 U
4-Nitrophenol	25 U	25 U	NA	38000 U	21000 U
Acenaphthene	5.0 U	5.0 U	NA	49000	23000
Acenaphthylene	5.0 U	5.0 U	NA	15000 U	8500 U
Acetophenone	5.0 U	5.0 U	NA	15000 U	8500 U
Anthracene	5.0 U	5.0 U	NA	45000	40000
Atrazine	5.0 U	5.0 U	NA	15000 U	8500 U
Benzaldehyde	25 U	25 U	NA	38000 U	21000 U
Benzo(a)anthracene	5.0 U	5.0 U	NA	21000	5600 J
Benzo(a)pyrene	5.0 U	5.0 U	NA	14000 J	8500 U
Benzo(b)fluoranthene	5.0 U	5.0 U	NA	15000 U	8500 U
Benzo(g,h,i)perylene	5.0 U	5.0 U	NA	16000	8500 U
Benzo(k)fluoranthene	5.0 U	5.0 U	NA	15000 U	8500 U
bis(2-Chloroethoxy)methane	5.0 U	5.0 U	NA	15000 U	8500 U
bis(2-Chloroethyl)ether	5.0 U	5.0 U	NA	15000 U	8500 U
bis(2-Chloroisopropyl)ether	5.0 U	5.0 U	NA	15000 U	8500 U
bis(2-Ethylhexyl)phthalate	5.0 U	5.0 U	NA	38000	48000
Butyl benzyl phthalate	10 U	10 U	NA	98000	75000
Caprolactam	25 U	25 U	NA	38000 U	21000 U
Carbazole	5.0 U	5.0 U	NA	15000 U	8500 U
Chrysene	5.0 U	5.0 U	NA	27000	10000
Dibenzo(a,h)anthracene	5.0 U	5.0 U	NA	15000 U	8500 U
Dibenzofuran	5.0 U	5.0 U	NA	15000 U	8500 U
Diethylphthalate	5.0 U	5.0 U	NA	15000 U	8500 U
Dimethyl phthalate	5.0 U	5.0 U	NA	15000 U	8500 U
Di-n-butyl phthalate	5.0 U	5.0 U	NA	15000 U	8500 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB16010**

Sample Designation:	BCX-EB-01	BCX-FL-01	BCX-TS-02	T101-PR-01/Solid Product	T13-PR-01/Solid Product
Sample Collection Date:	2/15/2008	2/15/2008	2/15/2008	2/15/2008	2/15/2008
Field Quality Control:	Rinsate Blank	Field Blank	Trip Blank		
Semivolatile Organic Compounds (cont'd)	µg/L	µg/L		µg/kg, dry weight	µg/kg, dry weight
Di-n-octylphthalate	5.0 U	5.0 U	NA	15000 U	8500 U
Fluoranthene	5.0 U	5.0 U	NA	15000 U	14000
Fluorene	5.0 U	5.0 U	NA	54000	32000
Hexachlorobenzene	5.0 U	5.0 U	NA	15000 U	8500 U
Hexachlorobutadiene	5.0 U	5.0 U	NA	15000 U	8500 U
Hexachlorocyclopentadiene	25 U	25 U	NA	38000 U	21000 U
Hexachloroethane	5.0 U	5.0 U	NA	15000 U	8500 U
Indeno(1,2,3-c,d)pyrene	5.0 U	5.0 U	NA	15000 U	8500 U
Isophorone	5.0 U	5.0 U	NA	15000 U	8500 U
Naphthalene	5.0 U	5.0 U	NA	150000	63000
Nitrobenzene	5.0 U	5.0 U	NA	15000 U	8500 U
N-Nitrosodi-n-propylamine	5.0 U	5.0 U	NA	15000 U	8500 U
N-Nitrosodiphenylamine/Diphenylamine	5.0 U	5.0 U	NA	15000 U	8500 U
Pentachlorophenol	25 U	25 U	NA	38000 U	21000 U
Phenanthrene	5.0 U	5.0 U	NA	180000	94000
Phenol	5.0 U	5.0 U	NA	15000 U	3000 J
Pyrene	5.0 U	5.0 U	NA	73000	26000
Pesticides	µg/L	µg/L		µg/kg, dry weight	µg/kg, dry weight
4,4'-DDD	0.025 U	0.025 U	NA	74 J	170 J
4,4'-DDE	0.025 U	0.025 U	NA	150 U	220 U
4,4'-DDT	0.025 U	0.025 U	NA	150 U	220 U
Aldrin	0.025 U	0.025 U	NA	140 J	220 U
alpha-BHC	0.025 U	0.025 U	NA	100 J	110 J
alpha-Chlordane	0.025 U	0.025 U	NA	28 J	220 U
beta-BHC	0.34 U	0.61 U	NA	150 U	220 U
delta-BHC	0.025 U	0.025 U	NA	150 U	220 U
Dieldrin	0.025 U	0.025 U	NA	150 U	220 U
Endosulfan I	0.025 U	0.025 U	NA	150 U	220 U
Endosulfan II	0.025 U	0.025 U	NA	58 J	87 J
Endosulfan sulfate	0.025 U	0.025 U	NA	71 J	220 U
Endrin	0.025 U	0.025 U	NA	60 J	110 J
Endrin aldehyde	0.025 U	0.025 U	NA	120 J	330 J
Endrin ketone	0.025 U	0.025 U	NA	77 J	220 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB16010**

Sample Designation:	BCX-EB-01	BCX-FL-01	BCX-TS-02	T101-PR-01/Solid Product	T13-PR-01/Solid Product
Sample Collection Date:	2/15/2008	2/15/2008	2/15/2008	2/15/2008	2/15/2008
Field Quality Control:	Rinsate Blank	Field Blank	Trip Blank		
Pesticides (cont'd)	µg/L	µg/L		µg/kg, dry weight	µg/kg, dry weight
gamma-BHC (Lindane)	0.025 U	0.025 U	NA	150 U	1700 J
gamma-Chlordane	0.025 U	0.025 U	NA	150 U	220 U
Heptachlor	0.025 U	0.025 U	NA	54 J	1500 J
Heptachlor epoxide	0.025 U	0.025 U	NA	100 J	1900 J
Methoxychlor	0.10 U	0.10 U	NA	600 U	860 U
Toxaphene	0.25 U	0.25 U	NA	7400 U	11000 U
Polychlorinated Biphenyls	µg/L	µg/L		µg/kg, dry weight	µg/kg, dry weight
Aroclor-1016	0.25 U	0.25 U	NA	380 U	110 U
Aroclor-1221	0.25 U	0.25 U	NA	380 U	110 U
Aroclor-1232	0.25 U	0.25 U	NA	380 U	110 U
Aroclor-1242	0.25 U	0.25 U	NA	380 U	110 U
Aroclor-1248	0.25 U	0.25 U	NA	380 U	110 U
Aroclor-1254	0.25 U	0.25 U	NA	380 U	110 U
Aroclor-1260	0.25 U	0.25 U	NA	380 U	110 U
Aroclor-1262	0.25 U	0.25 U	NA	380 U	110 U
Aroclor-1268	0.25 U	0.25 U	NA	380 U	110 U
Metals	mg/L	mg/L		mg/kg, dry weight	mg/kg, dry weight
Aluminum	0.20 U	0.20 U	NA	40000	16000
Antimony	0.010 U	0.010 U	NA	16	12
Arsenic	0.010 U	0.010 U	NA	10	0.84
Barium	0.025 U	0.025 U	NA	520	140
Beryllium	0.0040 U	0.0040 U	NA	0.26 J	0.31
Cadmium	0.0020 U	0.0020 U	NA	9.0	4.6
Calcium	5.0 U	5.0 U	NA	11000	18000
Chromium	0.0050 U	0.0050 U	NA	60	160
Cobalt	0.025 U	0.025 U	NA	9.4	14
Copper	0.0040 J	0.0050 U	NA	640	1900
Iron	0.10 U	0.10 U	NA	15000	130000
Lead	0.010 U	0.010 U	NA	86 J	350 J
Magnesium	5.0 U	5.0 U	NA	6800	2700
Manganese	0.015 U	0.015 U	NA	130	630
Mercury	0.00010 U	0.00010 U	NA	0.20	0.11 U
Nickel	0.040 U	0.040 U	NA	160 J	190 J

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB16010**

Sample Designation:	BCX-EB-01	BCX-FL-01	BCX-TS-02	T101-PR-01/Solid Product	T13-PR-01/Solid Product
Sample Collection Date:	2/15/2008	2/15/2008	2/15/2008	2/15/2008	2/15/2008
Field Quality Control:	Rinsate Blank	Field Blank	Trip Blank		
Metals (cont'd)	mg/L	mg/L		mg/kg, dry weight	mg/kg, dry weight
Potassium	5.0 U	5.0 U	NA	4900	1300
Selenium	0.010 U	0.010 U	NA	3.0	0.65 U
Silver	0.0050 U	0.0050 U	NA	0.57 UJ	0.86 J
Sodium	5.0 U	5.0 U	NA	77000	28000
Thallium	0.0057 U	0.0074 U	NA	1.6 J	18
Vanadium	0.050 U	0.050 U	NA	240	110
Zinc	0.028 J	0.020 U	NA	1800 J	3100 J

Notes:

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

µg/kg = Micrograms per kilogram

µg/L = Micrograms per liter

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.

NA = The sample was not analyzed for this analyte.

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JC07005**

Sample Designation:	T13-PR-01/Solid Product
Sample Collection Date:	2/15/2008
Field Quality Control:	Reanalysis
Percent Solids	%
Percent Solids	77.1
Pesticides	µg/kg, dry weight
4,4'-DDD	900 J
4,4'-DDE	440 UJ
4,4'-DDT	880 UJ
Aldrin	440 UJ
alpha-BHC	440 UJ
alpha-Chlordane	440 UJ
beta-BHC	550 J
delta-BHC	440 UJ
Dieldrin	440 UJ
Endosulfan I	440 UJ
Endosulfan II	440 UJ
Endosulfan sulfate	440 UJ
Endrin	440 UJ
Endrin aldehyde	440 UJ
Endrin ketone	440 UJ
gamma-BHC (Lindane)	1000 J
gamma-Chlordane	880 UJ
Heptachlor	480 J
Heptachlor epoxide	440 UJ
Methoxychlor	1700 UJ
Toxaphene	21000 UJ

Notes:

µg/kg = Micrograms per kilogram

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.

NA = The sample was not analyzed for this analyte.



July 21, 2008

Mr. Matthew Huyser
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street SW, 11th Floor
Atlanta, Georgia 30303

**Subject: BCX Tank Site
Technical Direction Document Number TTEMI-05-003-0023
Contract No. EP-W-05-054 (START III Region 4)
Cursory Data Validation Report
Shealy Environmental Services, Inc., Reports Nos. JB21009 and JB22005
Analytical Parameters: Volatile organic compounds (VOC), Semivolatile organic
compounds (SVOC), Organochlorine pesticides, Polychlorinated biphenyls (PCB),
and Metals**

Laboratory Report No.	Samples	Field Duplicate Pairs	Field Quality Control Samples
JB21009	T114/115-PR-01	None	BCX-TS-03
JB22005	T12-PR-01	T12-PR-01 and T12-PR-01 DUP	BCX-TS-04

Dear Mr. Huyser:

The Tetra Tech Superfund Technical Assessment and Response Team (START) conducted data validation on the analytical results for three product samples (including a field duplicate sample) and two aqueous quality control (QC) samples (trip blanks) that were collected at the BCX Tank Site in Jacksonville, Florida, on February 19 through 21, 2008. The samples were analyzed under laboratory reports numbers JB21009 and JB22005 by Shealy Environmental Services, Inc. (Shealy), of West Columbia, South Carolina. The soil samples were analyzed for TCL VOCs by SW-846 Method 8260B, TCL SVOCs by SW-846 Method 8270C, chlorinated pesticides by SW-846 Method 8081A, PCBs by SW-846 Method 8082, and metals by SW-846 Methods 6010B and 7471A.

Analytical data were evaluated in general accordance with all applicable data validation guidance documents, including the following: the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA October 1999) and the NFG for Inorganic Data Review (EPA October 2004). The analytical methods used by Shealy during this project provide guidance on procedures and method acceptance criteria that, in some areas, differ from the NFGs. Where the methods and the NFGs differ, the data validators followed the acceptance criteria in the methods. In addition, if laboratory-derived acceptance criteria were presented in the TestAmerica data package, then these criteria were used to evaluate the data, unless the criteria were considered inadequate.

Data were evaluated based on the following criteria:

- Data Completeness *
- Sample Preservation, Sample Receipt, and Holding Times*
- Laboratory Blanks
- Surrogates

Mr. M. Huyser
July 21, 2008

- Laboratory Control Samples (LCS) and Laboratory Control Sample Duplicates (LCSD)*
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Laboratory Duplicate Samples *
- Field Duplicate Results
- Dilution and Reported Detection Limits
- Analyte Quantitation

* All QC criteria were met for this evaluated parameter. Those criteria without an asterisk (*) displayed a deficiency that is described later in this report.

The following efficient and effective data validation approach was used for providing an abbreviated assessment of the quality of the set of data. Data evaluation consisted of a review of the data with a focus on the available review parameters present in the summary data package (which typically does not include the raw data). This review was not a complete assessment of all possible quality control parameters or even of each quality control parameter that was reviewed. The review, rather, was intended to efficiently identify and focus on those problems and quality control deficiencies that could be readily identified from the summary data package. Because of the nature of this approach, some problems and deficiencies may not have been identified; as such, this approach may not support some critical uses and required limits on decision-making uncertainty for the data.

Enclosure 1 presents copies of the sample results sheets from the laboratory data packages, with hand-entered qualifications from the data validation effort. Enclosure 2 presents the same data validation-qualified analytical results in table format. The following sections discuss the data package and provide an overall assessment of the data. This discussion concentrates on the irregularities associated with the various parameters as indicated above.

LABORATORY BLANKS

There were no analytes detected in most laboratory blanks. However, the SVOC method blank associated with report No. JB22005 contained a low-level concentration of the common laboratory contaminant bis(2-ethylhexyl)phthalate. The associated samples contained much higher concentrations, so no qualifications are warranted.

The metals method blank associated with report No. JB21009 contained a low-level concentration of zinc while the method blank associated with report No. JB22005 contained low-level concentrations of aluminum, calcium, chromium, copper, sodium, and thallium. In report No. JB22005, samples T12-PR-01 and T12-PR-01 DUP contained similar concentrations of thallium, so those results are qualified as undetected (flagged "U"). The associated samples contained much higher concentrations of the other metals, so no further qualifications are warranted.

One trip blank (BCX-TS-04) contained a low concentration of the common drinking water contaminant chloroform. That compound was not detected in the associated product samples, so no qualifications were applied.

SURROGATES

All surrogate recoveries from the trip blanks were within the laboratory-established limits. However, there were significant problems with the surrogates in the product samples for all organic analyses.

Mr. M. Huyser
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In the VOC analyses, sample T114/115-PR-01 had excessively high recoveries for all three surrogates, while samples T12-PR-01 and T12-PR-01 DUP had excessively low recoveries for two of the three surrogates. No qualifications were warranted because the surrogates were diluted out.

In the SVOC analyses, sample T114/115-PR-01 had excessively high recoveries for two of the three base/neutral surrogates. No qualifications were warranted because the surrogates were diluted out. Sample T12-PR-01 had excessively high recoveries for one acidic surrogate and excessively low recoveries for the other two acidic surrogates and one base/neutral surrogate. No qualifications were applied because the surrogates were diluted out and only one acidic surrogate was outside QC limits.

In the organochlorine pesticide analyses, samples T114/115-PR-01 and T12-PR-01 had excessively low recoveries for one surrogate. However, sample T12-PR-01 DUP had low recoveries for both surrogates. No qualifications were warranted because the surrogates were diluted out.

In the PCB analyses, samples T114/115-PR-01 and T12-PR-01 DUP had excessively low recoveries for both surrogates. No qualifications were warranted because the surrogates were diluted out.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

MS/MSD analyses were performed on sample T114/115-PR-01 and there were irregularities in all analysis. In the VOC MS/MSD analyses, recoveries could not be determined for the analytes detected in the unspiked sample, because their concentrations were much higher than the spikes. No qualifications are warranted for this data gap. However, almost all of the other analytes had recoveries below their respective QC limits. Because of this pervasive matrix interference, all VOC results for sample T114/115-PR-01 were qualified as estimated (flagged “J” or “UJ”, as appropriate) due to matrix interference.

In the SVOC MS/MSD analyses, recoveries could not be determined for the analytes detected in the unspiked sample, because their concentrations were much higher than the spikes. No qualifications are warranted for this data gap. However, almost all of the other analytes had recoveries outside the laboratory QC limits of 30 to 130 percent. For instance, recoveries of acenaphthylene were 0 and 0 percent, those of benzo(a)pyrene were 245 and 247 percent, and those of phenol were 172 and 216 percent. Because of this pervasive matrix interference, all SVOC results for sample T114/115-PR-01 were qualified as estimated (flagged “J” or “UJ”, as appropriate) due to matrix interference.

The organochlorine pesticide MS/MSD analyses showed similar irregular recoveries, with almost all recoveries outside the laboratory QC limits of 50 to 130 percent. For instance, recoveries of gamma-BHC (lindane) were 0 and 0 percent and those of gamma-chlordane were 947 and 514 percent. Because of this pervasive matrix interference, all pesticide results for sample T114/115-PR-01 were qualified as estimated (flagged “UJ”) due to matrix interference.

The PCB MS/MSD analyses also showed irregular recoveries. For Aroclor 1016, the recoveries were 272 and 604 percent, versus QC limits of 42 to 149 percent. For Aroclor 1260, the recoveries were 97 and 231 percent, versus QC limits of 34 to 160 percent. Because of this pervasive matrix interference, all PCB results for sample T114/115-PR-01 were qualified as estimated (flagged “UJ”) due to matrix interference.

In the metals MS/MSD analyses, recoveries of aluminum, calcium, copper, iron, and zinc could not be determined because the unspiked sample contained much more than the spikes. No qualifications are warranted for this data gap. However, barium had negative recoveries (lower concentrations in the spiked

samples than in the unspiked sample) and mercury had recoveries of 74 and 47 percent, below the QC limits of 75 to 125 percent. Therefore, results for barium and mercury in sample T114/115-PR-01 were qualified as estimated (flagged “J”) due to matrix interference.

Although no MS/MSD analyses were performed on the samples in report No. JB22005, the possibility exists that those samples may show similar matrix interference.

FIELD DUPLICATE RESULTS

Samples T12-PR-01 and T12-PR-01-DUP were collected as a field duplicate pair. All RPDs were within the QC guideline of 50 percent with the exceptions presented below. The associated results were qualified as indicated.

Field Sample	Duplicate	Compound	Parameter	RPD	Qualifier
T12-PR-01	T12-PR-01-DUP	Acetone	VOC	200	J for T12-PR-01 UJ for T12-PR-01 DUP
		beta-BHC	Pesticide	200	J for T12-PR-01 UJ for T12-PR-01 DUP
		Carbon disulfide	VOC	51	J for both samples
		Isopropylbenzene	VOC	200	J for T12-PR-01 UJ for T12-PR-01 DUP
		Ethylbenzene	VOC	92	J for both samples
		4-Methyl-2-pentanone	VOC	54	J for both samples
		Toluene	VOC	80	J for both samples
		Xylenes (total)	VOC	89	J for both samples

DILUTION AND REQUIRED REPORTING LIMITS

Required reporting limits were met. However, all organic analyses were performed at dilutions ranging from 10-fold (PCBs in sample T12-PR-01-DUP) to 2,000-fold (VOCs in sample T114/115-PR-01) due to the very high concentrations of target and non-target organic compounds in the samples. The sample reporting limits were raised accordingly. The SVOC extract of sample T12-PR-01 DUP was reanalyzed at a second dilution (40-fold, in addition to 20-fold for the other analytes) to bring the concentration of 2-methylnaphthalene within calibration range. In the metals analyses, several metals in all samples were analyzed at 2-fold or 5-fold dilutions to minimize matrix interference or to bring the high concentrations within calibration range. No qualifications were made for these dilutions.

ANALYTE QUANTITATION

In the pesticide analysis of sample TR12-PR-01, the quantitative results for beta-BHC between the two chromatographic columns were considerably different (the percent difference was greater than 40 percent), apparently due to varying amounts of matrix interference. Therefore, the result for beta-BHC for sample TR12-PR-01 was qualified as estimated (flagged “J”) and the possibility of a false positive exists.

Some sample results were below the calibration range (indicated as “PQL” on the laboratory results sheets), but above the sample detection limit (indicated as “MDL”). The laboratory qualified these extrapolations as estimated (flagged “J”).

Mr. M. Huyser
July 21, 2008

OVERALL ASSESSMENT OF DATA

The overall quality of this data package was acceptable, with the following exceptions. No data were rejected based on the data validation. The data validation flags required due to estimation of data are detailed below. All data can be used as qualified for any purpose.

Sample Designation	Flag	Compound	Reason
TR12-PR-01 TR12-PR-01 DUP	U	Thallium	Method blank contamination
T114/115-PR-01	J, UJ	All VOCs, SVOCs, Pesticides, and PCBs	MS/MSD Recovery and RPD exceedances
TR12-PR-01	J	Acetone beta-BHC Carbon disulfide Isopropylbenzene Ethylbenzene 4-Methyl-2-pentanone Toluene Xylenes (total)	Field duplicate precision exceedances
TR12-PR-01 DUP	J	beta-BHC Carbon disulfide Isopropylbenzene Ethylbenzene 4-Methyl-2-pentanone Toluene Xylenes (total)	Field duplicate precision exceedances
TR12-PR-01 DUP	UJ	Acetone beta-BHC Isopropylbenzene	Field duplicate precision exceedances

Please call me at (678) 775-3104 if you have any questions regarding this data validation report.

Sincerely,



Jessica Vickers
START III Quality Assurance Manager

Enclosures (2)

cc: Katrina Jones, EPA Project Officer
Darryl Walker, EPA Alternate Project Officer
Angel Reed, Tetra Tech START III Document Control Coordinator



ENCLOSURE 1

**FIXED LABORATORY ANALYTICAL RESULTS SHEETS WITH HAND-ENTERED DATA
VALIDATION QUALIFIERS FOR SHEALY ENVIRONMENTAL SERVICES, INC. WORK
ORDER NOS. JB21009 AND JB22005**

(31 Pages)

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-001
Description: T114/115-PR-01	Matrix: Solid
Date Sampled: 02/20/2008 1011	% Solids: 67.0 02/21/2008 2255
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	2000	02/25/2008 1854	LJH		73923	2.16

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		140000	46000	ug/kg	1
Benzene	71-43-2	8260B	57000	J	34000	7600	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		34000	12000	ug/kg	1
Bromoform	75-25-2	8260B	ND		34000	4800	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		34000	12000	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		69000	16000	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		34000	9000	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		34000	12000	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		34000	12000	ug/kg	1
Chloroethane	75-00-3	8260B	ND		34000	9000	ug/kg	1
Chloroform	67-66-3	8260B	ND		34000	5700	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		34000	6900	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		34000	4600	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		34000	10000	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		34000	12000	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		34000	5900	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		34000	12000	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		34000	12000	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		34000	12000	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		34000	11000	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		34000	5000	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		34000	6900	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		34000	12000	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		34000	5200	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		34000	10000	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		34000	6300	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		34000	4700	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		34000	5700	ug/kg	1
Ethylbenzene	100-41-4	8260B	210000	J	34000	12000	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		69000	9000	ug/kg	1
Isopropylbenzene	98-82-8	8260B	41000	J	34000	5500	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		34000	4600	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	12000	J	34000	2800	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		69000	10000	ug/kg	1
Methylcyclohexane	108-87-2	8260B	37000	J	34000	4200	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		34000	18000	ug/kg	1
Styrene	100-42-5	8260B	22000	J	34000	7600	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		34000	3200	ug/kg	1
Tetrachloroethene	127-18-4	8260B	31000	J	34000	16000	ug/kg	1
Toluene	108-88-3	8260B	700000	J	34000	12000	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		34000	14000	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		34000	12000	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		34000	5900	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		34000	5400	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

HVE
5 JUN 08

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-001
Description: T114/115-PR-01	Matrix: Solid
Date Sampled: 02/20/2008 1011	% Solids: 67.0 02/21/2008 2255
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	2000	02/25/2008 1854	LJH		73923	2.16

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		34000	13000	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		34000	10000	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		34000	5900	ug/kg	1
Xylenes (total)	1330-20-7	8260B	1100000	J	34000	20000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4	N	183	53-142
Bromofluorobenzene	N	151	47-138
Toluene-d8	N	326	68-124

AUG
5 Jun 08

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 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-001
Description: T114/115-PR-01	Matrix: Solid
Date Sampled: 02/20/2008 1011	% Solids: 67.0 02/21/2008 2255
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	2000	02/25/2008 1854	CMS		74113

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Benzene, 1-methyl-3-(1-methylethyl)-		8260B	68000	N			ug/kg	1
Benzene, 1-methyl-3-propyl-		8260B	100000				ug/kg	1
Benzene, 2-ethyl-1,4-dimethyl-		8260B	140000				ug/kg	1
Benzene, 4-ethyl-1,2-dimethyl-		8260B	87000				ug/kg	1
Benzene, (2-methyl-1-propenyl)-		8260B	110000				ug/kg	1
Benzene, 1-methyl-2-(1-methylethyl)-		8260B	85000				ug/kg	1
Benzene, 1,2,3,4-tetramethyl-		8260B	75000	N			ug/kg	1
Unknown		8260B	150000	J			ug/kg	1
Unknown		8260B	81000	J			ug/kg	1
1-Phenyl-1-butene		8260B	230000	N			ug/kg	1

HJE
5 Jun 08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
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Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-001
Description: T114/115-PR-01	Matrix: Solid
Date Sampled: 02/20/2008 1011	% Solids: 67.0 02/21/2008 2255
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	40	02/28/2008 2331	GLR		74241

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dodecane		8270C	930000	NJ			ug/kg	1
Tridecane		8270C	1200000				ug/kg	1
Tetradecane		8270C	2000000				ug/kg	1
Naphthalene, 2,3-dimethyl-		8270C	770000				ug/kg	1
Pentadecane		8270C	2000000				ug/kg	1
10-Methylnonadecane		8270C	960000				ug/kg	1
Hexadecane		8270C	2400000				ug/kg	1
Tridecane, 5-propyl-		8270C	1600000				ug/kg	1
Heptadecane		8270C	3300000				ug/kg	1
Octadecane		8270C	1700000				ug/kg	1
Hexadecane, 2,6,10,14-tetramethyl-		8270C	860000				ug/kg	1
1H-Cyclopropa[1]phenanthrene,1a,9b-dihyd		8270C	1200000				ug/kg	1
Heneicosane		8270C	1100000				ug/kg	1
2-Propenoic acid, 3-(4-methoxyphenyl)-,		8270C	750000				ug/kg	1
Hexacosane		8270C	600000				ug/kg	1
Tricosane		8270C	660000	NJ			ug/kg	1

HVE
5 Jun 08

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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		
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Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.

Laboratory ID: JB21009-001

Description: T114/115-PR-01

Matrix: Solid

Date Sampled: 02/20/2008 1011

% Solids: 67.0 02/21/2008 2255

Date Received: 02/21/2008

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch		
1	3550B	8270C	40	02/28/2008 2331	GLR	02/28/2008 1115	74131		

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		59000 <i>u</i>	1800	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		59000 <i>u</i>	2300	ug/kg	1
Acetophenone	98-86-2	8270C	ND		59000 <i>u</i>	3500	ug/kg	1
Anthracene	120-12-7	8270C	87000 <i>J</i>		59000	2600	ug/kg	1
Atrazine	1912-24-9	8270C	ND		59000 <i>u</i>	18000	ug/kg	1
Benzaldehyde	100-52-7	8270C	ND		150000	4700	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	ND		59000	2000	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		59000	4300	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		59000	4000	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		59000	4000	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		59000 <i>u</i>	4900	ug/kg	1
1,1'-Biphenyl	92-52-4	8270C	160000 <i>J</i>		59000	5500	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		59000 <i>u</i>	2500	ug/kg	1
Butyl benzy phthalate	85-68-7	8270C	61000 <i>J</i>		59000	20000	ug/kg	1
Caprolactam	105-60-2	8270C	ND		150000 <i>u</i>	4400	ug/kg	1
Carbazole	86-74-8	8270C	110000 <i>S</i>		59000	1800	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		59000 <i>u</i>	3300	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		59000	3100	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		59000	2600	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		59000	2500	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		59000	2200	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		59000	2800	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		59000	2500	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		59000	2300	ug/kg	1
Chrysene	218-01-9	8270C	ND		59000	1800	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	ND		59000	20000	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		59000	20000	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		59000	3900	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		59000	2300	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		150000	10000	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		59000	2400	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		59000	20000	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		59000	20000	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		59000	3100	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		150000	6800	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		150000	1200	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		59000	4400	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		59000 <i>u</i>	5100	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	160000 <i>S</i>		59000	20000	ug/kg	1
Fluoranthene	206-44-0	8270C	44000 <i>S</i>		59000	1900	ug/kg	1
Fluorene	86-73-7	8270C	120000 <i>S</i>		59000	2300	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		59000 <i>u</i>	2400	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		59000 <i>u</i>	2400	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		150000 <i>u</i>	11000	ug/kg	1

PQL = Practical quantitation limit

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P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

H DE
5 Jun 08

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-001
Description: T114/115-PR-01	Matrix: Solid
Date Sampled: 02/20/2008 1011	% Solids: 67.0 02/21/2008 2255
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	40	02/28/2008 2331	GLR	02/28/2008 1115	74131

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270C	ND		59000 ↘	2900	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		59000 ↘	5300	ug/kg	1
Isophorone	78-59-1	8270C	ND		59000 ↘	2800	ug/kg	1
2-Methylnaphthalene	91-57-6	8270C	940000 J		59000 ↘	2100	ug/kg	1
2-Methylphenol	95-48-7	8270C	ND		59000 ↘	3300	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		120000 ↓	5600	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		59000 ↓	3000	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		59000 ↘	2000	ug/kg	1
Naphthalene	91-20-3	8270C	380000 J		59000 ↘	2500	ug/kg	1
2-Nitroaniline	88-74-4	8270C	ND		59000 ↘	4200	ug/kg	1
3-Nitroaniline	99-09-2	8270C	ND		59000 ↓	4300	ug/kg	1
4-Nitroaniline	100-01-6	8270C	ND		59000 ↓	3500	ug/kg	1
Nitrobenzene	98-95-3	8270C	ND		59000 ↓	2700	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		59000 ↓	6400	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		150000 ↓	25000	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		150000 ↘	6300	ug/kg	1
Phenanthrene	85-01-8	8270C	280000 J		59000 ↘	2400	ug/kg	1
Phenol	108-95-2	8270C	36000 J		59000 ↘	2800	ug/kg	1
Pyrene	129-00-0	8270C	80000 J		59000 ↘	2600	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		59000 ↘	3000	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		59000 ↘	3200	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		59	30-117
2-Fluorobiphenyl	N	109	33-102
2-Fluorophenol		80	28-104
Nitrobenzene-d5	N	142	22-109
Phenol-d5		91	27-103
Terphenyl-d14		120	41-120

HVE
5 Jun 08

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

PCBs by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-001
Description: T114/115-PR-01	Matrix: Solid
Date Sampled: 02/20/2008 1011	% Solids: 67.0 02/21/2008 2255
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8082	50	02/29/2008 0025	ASB	02/27/2008 1740	74040

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aroclor 1016	12674-11-2	8082	ND		1300	82	ug/kg	1
Aroclor 1221	11104-28-2	8082	ND		1300	720	ug/kg	1
Aroclor 1232	11141-16-5	8082	ND		1300	250	ug/kg	1
Aroclor 1242	53469-21-9	8082	ND		1300	170	ug/kg	1
Aroclor 1248	12672-29-6	8082	ND		1300	280	ug/kg	1
Aroclor 1254	11097-69-1	8082	ND		1300	130	ug/kg	1
Aroclor 1260	11096-82-5	8082	ND		1300	420	ug/kg	1
Aroclor 1262	37324-23-5	8082	ND		1300	600	ug/kg	1
Aroclor 1268	11100-14-4	8082	ND		1300	600	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	3.8	50-130
Tetrachloro-m-xylene	N	12	50-130

HJE
5 Jun 08

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-001
Description: T114/115-PR-01	Matrix: Solid
Date Sampled: 02/20/2008 1011	% Solids: 67.0 02/21/2008 2255
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8081A	50	03/01/2008 2047	NCM	02/27/2008 1740	74039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	ND		120	25	ug/kg	1
alpha-BHC	319-84-6	8081A	ND		120	29	ug/kg	1
beta-BHC	319-85-7	8081A	ND		120	22	ug/kg	1
delta-BHC	319-86-8	8081A	ND		120	24	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081A	ND		120	26	ug/kg	1
alpha-Chlordane	5103-71-9	8081A	ND		120	21	ug/kg	1
gamma-Chlordane	5103-74-2	8081A	ND		120	18	ug/kg	1
4,4'-DDD	72-54-8	8081A	ND		120	18	ug/kg	1
4,4'-DDE	72-55-9	8081A	ND		120	24	ug/kg	1
4,4'-DDT	50-29-3	8081A	ND		120	21	ug/kg	1
Dieldrin	60-57-1	8081A	ND		120	24	ug/kg	1
Endosulfan I	959-98-8	8081A	ND		120	25	ug/kg	1
Endosulfan II	33213-65-9	8081A	ND		120	18	ug/kg	1
Endosulfan sulfate	1031-07-8	8081A	ND		120	17	ug/kg	1
Endrin	72-20-8	8081A	ND		120	24	ug/kg	1
Endrin aldehyde	7421-93-4	8081A	ND		120	22	ug/kg	1
Endrin ketone	53494-70-5	8081A	ND		120	16	ug/kg	1
Heptachlor	76-44-8	8081A	ND		120	29	ug/kg	1
Heptachlor epoxide	1024-57-3	8081A	ND		120	23	ug/kg	1
Methoxychlor	72-43-5	8081A	ND		490	99	ug/kg	1
Toxaphene	8001-35-2	8081A	ND		6100	670	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		95	50-130
Tetrachloro-m-xylene	N	10	50-130

NJE
5 Jun 08

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
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 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-001
Description: T114/115-PR-01	Matrix: Solid
Date Sampled: 02/20/2008 1011	% Solids: 67.0 02/21/2008 2255
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7471A	1	02/25/2008 2245	FLW	02/25/2008 1914	73916
1	3050B	6010B	5	02/25/2008 2012	MNM	02/21/2008 1723	73726
2	3050B	6010B	1	02/25/2008 2043	MNM	02/21/2008 1723	73726

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	9700		15	1.9	mg/kg	2
Antimony	7440-36-0	6010B	ND		3.7	1.3	mg/kg	1
Arsenic	7440-38-2	6010B	19		3.7	1.4	mg/kg	1
Barium	7440-39-3	6010B	440	J	1.9	0.14	mg/kg	2
Beryllium	7440-41-7	6010B	0.60		0.30	0.042	mg/kg	2
Cadmium	7440-43-9	6010B	6.8		0.75	0.078	mg/kg	1
Calcium	7440-70-2	6010B	17000		370	26	mg/kg	2
Chromium	7440-47-3	6010B	140		1.9	0.38	mg/kg	1
Cobalt	7440-48-4	6010B	22		1.9	0.14	mg/kg	2
Copper	7440-50-8	6010B	4900		1.9	0.36	mg/kg	1
Iron	7439-89-6	6010B	34000	Be	37	12	mg/kg	1
Lead	7439-92-1	6010B	770		3.7	0.69	mg/kg	1
Magnesium	7439-95-4	6010B	1800		370	28	mg/kg	2
Manganese	7439-96-5	6010B	240		5.6	0.43	mg/kg	1
Mercury	7439-97-6	7471A	1.4	J	0.12	0.0088	mg/kg	1
Nickel	7440-02-0	6010B	140		3.0	0.22	mg/kg	2
Potassium	7440-09-7	6010B	420		370	16	mg/kg	2
Selenium	7782-49-2	6010B	1.7	J	3.7	1.3	mg/kg	1
Silver	7440-22-4	6010B	5.2		1.9	0.31	mg/kg	1
Sodium	7440-23-5	6010B	2300		370	26	mg/kg	2
Thallium	7440-28-0	6010B	2.7	J	19	1.9	mg/kg	1
Vanadium	7440-62-2	6010B	260		19	1.1	mg/kg	1
Zinc	7440-66-6	6010B	3600	Be	19	2.5	mg/kg	1

HUE
5 Jun 08

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.

Laboratory ID: JB21009-002

Description: BCX-TS-03

Matrix: Aqueous

Date Sampled: 02/19/2008 1400

Date Received: 02/21/2008

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/22/2008 1638	CMS		73846

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,1,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB21009-002
Description: BCX-TS-03	Matrix: Aqueous
Date Sampled: 02/19/2008 1400	
Date Received: 02/21/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/22/2008 1638	CMS		73846

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		84	70-130
Bromofluorobenzene		100	70-130
Toluene-d8		95	70-130

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-001
Description: T12-PR-01	Matrix: Solid
Date Sampled: 02/21/2008 1029	% Solids: 45.2 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	50	02/28/2008 2003	LJH		74197	4.11

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND	UJ	2700	900	ug/kg	1
Benzene	71-43-2	8260B	ND		670	150	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		670	230	ug/kg	1
Bromoform	75-25-2	8260B	ND		670	94	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		670	240	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	1200	J	1300	320	ug/kg	1
Carbon disulfide	75-15-0	8260B	2700	J	670	170	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		670	240	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		670	230	ug/kg	1
Chloroethane	75-00-3	8260B	ND		670	170	ug/kg	1
Chloroform	67-66-3	8260B	ND		670	110	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		670	130	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		670	91	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		670	200	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		670	230	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		670	110	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		670	230	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		670	230	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		670	230	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		670	220	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		670	98	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		670	130	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		670	230	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		670	100	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		670	200	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		670	120	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		670	92	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		670	110	ug/kg	1
Ethylbenzene	100-41-4	8260B	3800	J	670	230	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		1300	170	ug/kg	1
Isopropylbenzene	98-82-8	8260B	1300	J	670	110	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		670	90	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		670	54	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	2800	J	1300	200	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		670	82	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		670	350	ug/kg	1
Styrene	100-42-5	8260B	ND		670	150	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		670	63	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		670	310	ug/kg	1
Toluene	108-88-3	8260B	6100	J	670	230	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		670	280	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		670	230	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		670	110	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		670	110	ug/kg	1

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL
 E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

(Signature)
 02/10/08

HVE
5 Jun 08

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-001
Description: T12-PR-01	Matrix: Solid
Date Sampled: 02/21/2008 1029	% Solids: 45.2 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	50	02/28/2008 2003	LJH		74197	4.11

Parameter	CAS	Analytical	Result	Q	PQL	MDL	Units	Run
	Number	Method						
Trichloroethene	79-01-6	8260B	ND		670	260	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		670	200	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		670	120	ug/kg	1
Xylenes (total)	1330-20-7	8260B	18000	✓	670	390	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		85	53-142
Bromofluorobenzene	N	40	47-138
Toluene-d8	N	44	68-124

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PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-001
Description: T12-PR-01	Matrix: Solid
Date Sampled: 02/21/2008 1029	% Solids: 45.2 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	50	02/28/2008 2003	LJH		74206

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Unknown		8260B	14000	J			ug/kg	1
Benzene, 1-ethyl-2-methyl-		8260B	2800	N			ug/kg	1
Benzene, 2-ethyl-1,4-dimethyl-		8260B	3800	J			ug/kg	1
Benzene, 2-ethyl-1,4-dimethyl-		8260B	2000				ug/kg	1
Benzene, 1-methyl-4-(2-propenyl)-		8260B	2800				ug/kg	1
Benzene, 4-ethyl-1,2-dimethyl-		8260B	2500				ug/kg	1
Benzene, 1,2,3,4-tetramethyl-		8260B	3700				ug/kg	1
Dodecane		8260B	2300				ug/kg	1
Benzene, 2-ethenyl-1,4-dimethyl-		8260B	1900				ug/kg	1
Benzene, 1-methyl-4-(1-methylpropyl)-		8260B	2000	N			ug/kg	1

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PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
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Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-001
Description: T12-PR-01	Matrix: Solid
Date Sampled: 02/21/2008 1029	% Solids: 45.2 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/28/2008 2113	GLR		74277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dodecane		8270C	220000	NJ			ug/kg	1
Tridecane		8270C	380000				ug/kg	1
Naphthalene, 2,7-dimethyl-		8270C	240000				ug/kg	1
Pentadecane		8270C	510000				ug/kg	1
Naphthalene, 2,3,6-trimethyl-		8270C	290000				ug/kg	1
Hexadecane		8270C	500000				ug/kg	1
2-Bromo dodecane		8270C	510000				ug/kg	1
Octadecane		8270C	560000				ug/kg	1
Heptadecane		8270C	350000				ug/kg	1
2-Ethylhexyl trans-4-methoxycinnamate		8270C	320000				ug/kg	1
Tetracosane		8270C	250000				ug/kg	1
Pentacosane		8270C	270000				ug/kg	1
Hexacosane		8270C	260000	NJ			ug/kg	1

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ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-001
Description: T12-PR-01	Matrix: Solid
Date Sampled: 02/21/2008 1029	% Solids: 45.2 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/28/2008 2113	GLR	02/27/2008 1320	74041

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		14000	440	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		14000	570	ug/kg	1
Acetophenone	98-86-2	8270C	ND		14000	850	ug/kg	1
Anthracene	120-12-7	8270C	150000		14000	640	ug/kg	1
Atrazine	1912-24-9	8270C	ND		14000	4400	ug/kg	1
Benzaldehyde	100-52-7	8270C	ND		36000	1100	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	ND		14000	470	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		14000	1000	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		14000	970	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		14000	980	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		14000	1200	ug/kg	1
1,1'-Biphenyl	92-52-4	8270C	ND		14000	1300	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		14000	610	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	48000		14000	4800	ug/kg	1
Caprolactam	105-60-2	8270C	ND		36000	1100	ug/kg	1
Carbazole	86-74-8	8270C	ND		14000	430	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		14000 <i>W</i>	800	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		14000	740	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		14000	640	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		14000	600	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		14000	550	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		14000	690	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		14000 <i>W</i>	600	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		14000	570	ug/kg	1
Chrysene	218-01-9	8270C	ND		14000	450	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	ND		14000	4800	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		14000	4800	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		14000	950	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		14000	560	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		36000	2500	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		14000 <i>W</i>	580	ug/kg	1
Diethylphthalate	84-86-2	8270C	ND		14000	4800	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		14000	4800	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		14000 <i>W</i>	750	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		36000 <i>W</i>	1700	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		36000 <i>W</i>	290	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		14000	1000	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		14000	1200	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	110000		14000	4800	ug/kg	1
Fluoranthene	206-44-0	8270C	ND		14000	450	ug/kg	1
Fluorene	86-73-7	8270C	ND		14000	550	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		14000	580	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		14000	590	ug/kg	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		36000	2800	ug/kg	1

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 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

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Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-001
Description: T12-PR-01	Matrix: Solid
Date Sampled: 02/21/2008 1029	% Solids: 45.2 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/28/2008 2113	GLR	02/27/2008 1320	74041

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270C	ND		14000	710	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		14000	1300	ug/kg	1
Isophorone	78-59-1	8270C	ND		14000	680	ug/kg	1
2-Methylnaphthalene	91-57-6	8270C	330000		14000	520	ug/kg	1
2-Methylphenol	95-48-7	8270C	ND		14000	810	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		29000	1400	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		14000	740	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		14000	480	ug/kg	1
Naphthalene	91-20-3	8270C	66000		14000	600	ug/kg	1
2-Nitroaniline	88-74-4	8270C	ND		14000	1000	ug/kg	1
3-Nitroaniline	99-09-2	8270C	ND		14000	1000	ug/kg	1
4-Nitroaniline	100-01-6	8270C	ND		14000	850	ug/kg	1
Nitrobenzene	98-95-3	8270C	ND		14000	660	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		14000	1500	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		36000	6200	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		36000	1500	ug/kg	1
Phenanthrene	85-01-8	8270C	150000		14000	580	ug/kg	1
Phenol	108-95-2	8270C	ND		14000	690	ug/kg	1
Pyrene	129-00-0	8270C	ND		14000	620	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		14000	740	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		14000	790	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol	N	168	30-117
2-Fluorobiphenyl		91	33-102
2-Fluorophenol	N	25	28-104
Nitrobenzene-d5	N	0.0	22-109
Phenol-d5	N	0.0	27-103
Terphenyl-d14		94	41-120

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Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-001
Description: T12-PR-01	Matrix: Solid
Date Sampled: 02/21/2008 1029	% Solids: 45.2 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8081A	50	03/01/2008 2140	NCM	02/27/2008 1740	74039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	ND		190	37	ug/kg	1
alpha-BHC	319-84-6	8081A	ND		190	43	ug/kg	1
beta-BHC	319-85-7	8081A	410	<i>PS</i>	190	33	ug/kg	1
delta-BHC	319-86-8	8081A	ND	<i>S</i>	190	35	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081A	ND		190	40	ug/kg	1
alpha-Chlordane	5103-71-9	8081A	ND		190	32	ug/kg	1
gamma-Chlordane	5103-74-2	8081A	ND		190	26	ug/kg	1
4,4'-DDD	72-54-8	8081A	ND		190	28	ug/kg	1
4,4'-DDE	72-55-9	8081A	ND		190	35	ug/kg	1
4,4'-DDT	50-29-3	8081A	ND		190	31	ug/kg	1
Dieldrin	60-57-1	8081A	ND		190	36	ug/kg	1
Endosulfan I	959-98-8	8081A	ND		190	37	ug/kg	1
Endosulfan II	33213-65-9	8081A	ND		190	28	ug/kg	1
Endosulfan sulfate	1031-07-8	8081A	ND		190	25	ug/kg	1
Endrin	72-20-8	8081A	ND		190	36	ug/kg	1
Endrin aldehyde	7421-93-4	8081A	ND		190	33	ug/kg	1
Endrin ketone	53494-70-5	8081A	ND		190	24	ug/kg	1
Heptachlor	76-44-8	8081A	ND		190	43	ug/kg	1
Heptachlor epoxide	1024-57-3	8081A	ND		190	34	ug/kg	1
Methoxychlor	72-43-5	8081A	ND		740	150	ug/kg	1
Toxaphene	8001-35-2	8081A	ND		9200	1000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		60	50-130
Tetrachloro-m-xylene	N	42	50-130

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TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-001
Description: T12-PR-01	Matrix: Solid
Date Sampled: 02/21/2008 1029	% Solids: 45.2 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7471A	1	02/25/2008 2225	FLW	02/25/2008 1914	73916
1	3050B	6010B	5	02/25/2008 1936	MNM	02/23/2008 2021	73828
2	3050B	6010B	1	02/25/2008 1944	MNM	02/23/2008 2021	73828

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	31000	B	22	2.8	mg/kg	2
Antimony	7440-36-0	6010B	6.5		5.5	2.0	mg/kg	1
Arsenic	7440-38-2	6010B	6.9		5.5	2.1	mg/kg	1
Barium	7440-39-3	6010B	460		2.9	0.20	mg/kg	2
Beryllium	7440-41-7	6010B	0.30	J	0.44	0.062	mg/kg	2
Cadmium	7440-43-9	6010B	8.9		1.1	0.12	mg/kg	1
Calcium	7440-70-2	6010B	19000	B	550	39	mg/kg	2
Chromium	7440-47-3	6010B	100	B	2.8	0.56	mg/kg	1
Cobalt	7440-48-4	6010B	15		2.9	0.20	mg/kg	2
Copper	7440-50-8	6010B	1200	B	2.8	0.54	mg/kg	1
Iron	7439-89-6	6010B	42000		55	18	mg/kg	1
Lead	7439-92-1	6010B	110		5.5	1.0	mg/kg	1
Magnesium	7439-95-4	6010B	7400		550	41	mg/kg	2
Manganese	7439-96-5	6010B	240		8.3	0.64	mg/kg	1
Mercury	7439-97-6	7471A	0.31		0.18	0.013	mg/kg	1
Nickel	7440-02-0	6010B	180		4.4	0.33	mg/kg	2
Potassium	7440-09-7	6010B	3700		550	24	mg/kg	2
Selenium	7782-49-2	6010B	3.1	J	5.5	1.9	mg/kg	1
Silver	7440-22-4	6010B	0.70	J	2.8	0.46	mg/kg	1
Sodium	7440-23-5	6010B	50000	B	550	38	mg/kg	2
Thallium	7440-28-0	6010B	2.8	B 4	28	2.8	mg/kg	1
Vanadium	7440-62-2	6010B	76		28	1.7	mg/kg	1
Zinc	7440-66-6	6010B	2400		28	3.8	mg/kg	1

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Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-002
Description: T12-PR-01 DUP	Matrix: Solid
Date Sampled: 02/21/2008 1031	% Solids: 45.9 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	50	02/28/2008 2026	LJH		74197	4.56

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	5400	J	2400	800	ug/kg	1
Benzene	71-43-2	8260B	ND		600	130	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		600	200	ug/kg	1
Bromoform	75-25-2	8260B	ND		600	84	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		600	210	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	1000	J	1200	290	ug/kg	1
Carbon disulfide	75-15-0	8260B	1600	J	600	160	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		600	210	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		600	200	ug/kg	1
Chloroethane	75-00-3	8260B	ND		600	160	ug/kg	1
Chloroform	67-66-3	8260B	ND		600	99	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		600	120	ug/kg	1
Cyclohexane	110-82-7	8260B	ND		600	80	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		600	180	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		600	200	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		600	100	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		600	200	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		600	200	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		600	200	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		600	190	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		600	87	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		600	120	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		600	200	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		600	91	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		600	180	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		600	110	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		600	81	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		600	98	ug/kg	1
Ethylbenzene	100-41-4	8260B	1400	J	600	200	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		1200	160	ug/kg	1
Isopropylbenzene	98-82-8	8260B	ND	W	600	96	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		600	80	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		600	48	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	1600	J	1200	180	ug/kg	1
Methylcyclohexane	108-87-2	8260B	ND		600	73	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		600	310	ug/kg	1
Styrene	100-42-5	8260B	ND		600	130	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		600	56	ug/kg	1
Tetrachloroethene	127-18-4	8260B	ND		600	270	ug/kg	1
Toluene	108-88-3	8260B	2600	J	600	200	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		600	250	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		600	200	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		600	100	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		600	94	ug/kg	1

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 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"
 B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL
 E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

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 07/10/08

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-002
Description: T12-PR-01 DUP	Matrix: Solid
Date Sampled: 02/21/2008 1031	% Solids: 45.9 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	50	02/28/2008 2026	LJH		74197	4.56

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		600	230	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		600	180	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		600	100	ug/kg	1
Xylenes (total)	1330-20-7	8260B	6900	J	600	350	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		71	53-142
Bromofluorobenzene	N	32	47-138
Toluene-d8	N	37	68-124

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PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM inc.	Laboratory ID: JB22005-002
Description: T12-PR-01 DUP	Matrix: Solid
Date Sampled: 02/21/2008 1031	% Solids: 45.9 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	50	02/28/2008 2026	LJH		74206

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Unknown		8260B	17000	H N J P ↓			ug/kg	1
Benzene, 1-ethyl-2-methyl-		8260B	2000				ug/kg	1
Benzene, 2-ethyl-1,4-dimethyl-		8260B	2600				ug/kg	1
Unknown		8260B	1800				ug/kg	1
Benzene, 4-ethyl-1,2-dimethyl-		8260B	1600				ug/kg	1
Benzene, 1,2,4,5-tetramethyl-		8260B	2500				ug/kg	1
Dodecane		8260B	1600				ug/kg	1
Benzene, 1-methyl-4-(2-propenyl)-		8260B	2600				ug/kg	1
Benzene, 1,2,4,5-tetramethyl-		8260B	5200				ug/kg	1
Naphthalene, 1,2,3,4-tetrahydro-		8260B	1800				ug/kg	1


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Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-002
Description: T12-PR-01 DUP	Matrix: Solid
Date Sampled: 02/21/2008 1031	% Solids: 45.9 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/28/2008 2151	GLR		74277

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Dodecane		8270C	200000	<i>NJ</i> 			ug/kg	1
Tridecane, 7-methyl-		8270C	300000				ug/kg	1
Tridecane		8270C	400000				ug/kg	1
Tetradecane		8270C	370000				ug/kg	1
Naphthalene, 2,6-dimethyl-		8270C	240000				ug/kg	1
Pentadecane		8270C	450000				ug/kg	1
Naphthalene, 2,3,6-trimethyl-		8270C	340000				ug/kg	1
Naphthalene, 1,6,7-trimethyl-		8270C	280000				ug/kg	1
Hexadecane		8270C	400000				ug/kg	1
Tridecane, 3-methyl-		8270C	450000				ug/kg	1
Pentadecane, 2,6,10,14-tetramethyl-		8270C	1000000				ug/kg	1
Octadecane		8270C	610000				ug/kg	1
Nonadecane		8270C	340000				ug/kg	1


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Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-002
Description: T12-PR-01 DUP	Matrix: Solid
Date Sampled: 02/21/2008 1031	% Solids: 45.9 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3550B	8270C	20	02/28/2008 2151	GLR	02/27/2008 1320	74041			
2	3550B	8270C	40	03/03/2008 2332	GLR	02/27/2008 1320	74041			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		14000	440	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		14000	570	ug/kg	1
Acetophenone	98-86-2	8270C	ND		14000	850	ug/kg	1
Anthracene	120-12-7	8270C	140000		14000	640	ug/kg	1
Atrazine	1912-24-9	8270C	ND		14000	4400	ug/kg	1
Benzaldehyde	100-52-7	8270C	ND		36000	1100	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	ND		14000	470	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		14000	1000	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		14000	970	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		14000	980	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		14000	1200	ug/kg	1
1,1'-Biphenyl	92-52-4	8270C	ND		14000	1300	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		14000	610	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	48000		14000	4800	ug/kg	1
Caprolactam	105-60-2	8270C	ND		36000	1100	ug/kg	1
Carbazole	86-74-8	8270C	ND		14000	430	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		14000	800	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		14000	740	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		14000	640	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		14000	600	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		14000	550	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		14000	690	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		14000	600	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		14000	570	ug/kg	1
Chrysene	218-01-9	8270C	ND		14000	450	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	ND		14000	4800	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		14000	4800	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		14000	950	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		14000	570	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		36000	2500	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		14000	580	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		14000	4800	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		14000	4800	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		14000	750	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		36000	1700	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		36000	290	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		14000	1000	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		14000	1200	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	110000		14000	4800	ug/kg	1
Fluoranthene	206-44-0	8270C	ND		14000	450	ug/kg	1
Fluorene	86-73-7	8270C	ND		14000	550	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		14000	580	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		14000	590	ug/kg	1

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 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

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Semivolatile Organic Compounds by GC/MS

Client: **Tetra Tech EM Inc.**

Laboratory ID: **JB22005-002**

Description: **T12-PR-01 DUP**

Matrix: **Solid**

Date Sampled: **02/21/2008 1031**

% Solids: **45.9 02/22/2008 2231**

Date Received: **02/22/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	20	02/28/2008 2151	GLR	02/27/2008 1320	74041
2	3550B	8270C	40	03/03/2008 2332	GLR	02/27/2008 1320	74041

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270C	ND		36000	2800	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		14000	710	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		14000	1300	ug/kg	1
Isophorone	78-59-1	8270C	ND		14000	680	ug/kg	1
2-Methylnaphthalene	91-57-6	8270C	380000		29000	1000	ug/kg	2
2-Methylphenol	95-48-7	8270C	ND		14000	810	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		29000	1400	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		14000	740	ug/kg	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		14000	480	ug/kg	1
Naphthalene	91-20-3	8270C	84000		14000	600	ug/kg	1
2-Nitroaniline	88-74-4	8270C	ND		14000	1000	ug/kg	1
3-Nitroaniline	99-09-2	8270C	ND		14000	1000	ug/kg	1
4-Nitroaniline	100-01-6	8270C	ND		14000	850	ug/kg	1
Nitrobenzene	98-95-3	8270C	ND		14000	660	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		14000	1600	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		36000	6200	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		36000	1500	ug/kg	1
Phenanthrene	85-01-8	8270C	140000		14000	580	ug/kg	1
Phenol	108-95-2	8270C	ND		14000	690	ug/kg	1
Pyrene	129-00-0	8270C	ND		14000	620	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		14000	740	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		14000	790	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		116	30-117	N	0.0	30-117
2-Fluorobiphenyl		93	33-102	N	0.0	33-102
2-Fluorophenol		29	28-104	N	0.0	28-104
Nitrobenzene-d5		106	22-109	N	0.0	22-109
Phenol-d5	N	25	27-103	N	0.0	27-103
Terphenyl-d14		80	41-120	N	0.0	41-120

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ND = Not detected at or above the MDL

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P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

PCBs by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-002
Description: T12-PR-01 DUP	Matrix: Solid
Date Sampled: 02/21/2008 1031	% Solids: 45.9 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8082	10	02/29/2008 0051	ASB	02/27/2008 1740	74040

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aroclor 1016	12674-11-2	8082	ND		360	24	ug/kg	1
Aroclor 1221	11104-28-2	8082	ND		360	210	ug/kg	1
Aroclor 1232	11141-16-5	8082	ND		360	71	ug/kg	1
Aroclor 1242	53469-21-9	8082	ND		360	49	ug/kg	1
Aroclor 1248	12672-29-6	8082	ND		360	81	ug/kg	1
Aroclor 1254	11097-69-1	8082	ND		360	38	ug/kg	1
Aroclor 1260	11096-82-5	8082	ND		360	120	ug/kg	1
Aroclor 1262	37324-23-5	8082	ND		360	170	ug/kg	1
Aroclor 1268	11100-14-4	8082	ND		360	170	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	37	50-130
Tetrachloro-m-xylene	N	24	50-130

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Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-002
Description: T12-PR-01 DUP	Matrix: Solid
Date Sampled: 02/21/2008 1031	% Solids: 45.9 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8081A	50	03/01/2008 2157	NCM	02/27/2008 1740	74039

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	ND		180	36	ug/kg	1
alpha-BHC	319-84-6	8081A	ND		180	42	ug/kg	1
beta-BHC	319-85-7	8081A	ND	UJ	180	32	ug/kg	1
delta-BHC	319-86-8	8081A	ND		180	34	ug/kg	1
gamma-BHC (Lindane)	58-89-9	8081A	ND		180	38	ug/kg	1
alpha-Chlordane	5103-71-9	8081A	ND		180	31	ug/kg	1
gamma-Chlordane	5103-74-2	8081A	ND		180	26	ug/kg	1
4,4'-DDD	72-54-8	8081A	ND		180	27	ug/kg	1
4,4'-DDE	72-55-9	8081A	ND		180	34	ug/kg	1
4,4'-DDT	50-29-3	8081A	ND		180	30	ug/kg	1
Dieldrin	60-57-1	8081A	ND		180	35	ug/kg	1
Endosulfan I	959-98-8	8081A	ND		180	36	ug/kg	1
Endosulfan II	33213-65-9	8081A	ND		180	27	ug/kg	1
Endosulfan sulfate	1031-07-8	8081A	ND		180	25	ug/kg	1
Endrin	72-20-8	8081A	ND		180	35	ug/kg	1
Endrin aldehyde	7421-93-4	8081A	ND		180	32	ug/kg	1
Endrin ketone	53494-70-5	8081A	ND		180	24	ug/kg	1
Heptachlor	76-44-8	8081A	ND		180	42	ug/kg	1
Heptachlor epoxide	1024-57-3	8081A	ND		180	33	ug/kg	1
Methoxychlor	72-43-5	8081A	ND		720	140	ug/kg	1
Toxaphene	8001-35-2	8081A	ND		8900	970	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl	N	47	50-130
Tetrachloro-m-xylene	N	42	50-130

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 N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-002
Description: T12-PR-01 DUP	Matrix: Solid
Date Sampled: 02/21/2008 1031	% Solids: 45.9 02/22/2008 2231
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7471A	1	02/25/2008 2229	FLW	02/25/2008 1914	73916
1	3050B	6010B	2	02/25/2008 1940	MNM	02/23/2008 2021	73828
2	3050B	6010B	1	02/25/2008 1948	MNM	02/23/2008 2021	73828

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	27000	B ^e	22	2.8	mg/kg	2
Antimony	7440-36-0	6010B	7.2		2.2	0.78	mg/kg	1
Arsenic	7440-38-2	6010B	5.4		2.2	0.82	mg/kg	1
Barium	7440-39-3	6010B	440		2.8	0.20	mg/kg	2
Beryllium	7440-41-7	6010B	0.29	J	0.44	0.061	mg/kg	2
Cadmium	7440-43-9	6010B	9.2		0.44	0.046	mg/kg	1
Calcium	7440-70-2	6010B	14000	B ^t	540	39	mg/kg	2
Chromium	7440-47-3	6010B	89	B ^e	1.1	0.22	mg/kg	1
Cobalt	7440-48-4	6010B	11		2.8	0.20	mg/kg	2
Copper	7440-50-8	6010B	1000	B ^t	1.1	0.21	mg/kg	1
Iron	7439-89-6	6010B	27000		22	7.2	mg/kg	1
Lead	7439-92-1	6010B	88		2.2	0.40	mg/kg	1
Magnesium	7439-95-4	6010B	6200		540	40	mg/kg	2
Manganese	7439-96-5	6010B	170		3.3	0.25	mg/kg	1
Mercury	7439-97-6	7471A	0.27		0.18	0.013	mg/kg	1
Nickel	7440-02-0	6010B	160		4.4	0.33	mg/kg	2
Potassium	7440-09-7	6010B	3000		540	24	mg/kg	2
Selenium	7782-49-2	6010B	2.9		2.2	0.76	mg/kg	1
Silver	7440-22-4	6010B	0.65	J	1.1	0.18	mg/kg	1
Sodium	7440-23-5	6010B	44000	B ^t	540	37	mg/kg	2
Thallium	7440-28-0	6010B	1.7	B ^d U	11	1.1	mg/kg	1
Vanadium	7440-62-2	6010B	71		11	0.65	mg/kg	1
Zinc	7440-66-6	6010B	2000		11	1.5	mg/kg	1

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 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: **Tetra Tech EM Inc.**

Laboratory ID: **JB22005-003**

Description: **BCX-TS-04**

Matrix: **Aqueous**

Date Sampled: **02/21/2008 1400**

Date Received: **02/22/2008**

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/22/2008 2015	DLB		73836

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	1.9	J	5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JB22005-003
Description: BCX-TS-04	Matrix: Aqueous
Date Sampled: 02/21/2008 1400	
Date Received: 02/22/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	02/22/2008 2015	DLB		73836

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		77	70-130
Bromofluorobenzene		90	70-130
Toluene-d8		96	70-130

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

ENCLOSURE 2

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS FOR
SHEALY ENVIRONMENTAL SERVICES, INC. WORK ORDER NOS. JB21009 AND JB22005**

(8 Pages)

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB21009**

Sample Designation:	BCX-TS-03	T114/115-PR-01
Sample Collection Date:	2/19/2008	2/20/2008
Field Quality Control:	Trip Blank	
Percent Solids		%
Percent Solids	NA	67.0
Volatile Organic Compounds	µg/L	µg/kg, dry weight
1,1,1-Trichloroethane	5.0 U	34000 UJ
1,1,2,2-Tetrachloroethane	5.0 U	34000 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	34000 UJ
1,1,2-Trichloroethane	5.0 U	34000 UJ
1,1-Dichloroethane	5.0 U	34000 UJ
1,1-Dichloroethene	5.0 U	34000 UJ
1,2,4-Trichlorobenzene	5.0 U	34000 UJ
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	34000 UJ
1,2-Dibromoethane (EDB)	5.0 U	34000 UJ
1,2-Dichlorobenzene	5.0 U	34000 UJ
1,2-Dichloroethane	5.0 U	34000 UJ
1,2-Dichloropropane	5.0 U	34000 UJ
1,3-Dichlorobenzene	5.0 U	34000 UJ
1,4-Dichlorobenzene	5.0 U	34000 UJ
2-Butanone (MEK)	10 U	69000 UJ
2-Hexanone	10 U	69000 UJ
4-Methyl-2-pentanone	10 U	69000 UJ
Acetone	20 U	140000 UJ
Benzene	5.0 U	57000 J
Bromodichloromethane	5.0 U	34000 UJ
Bromoform	5.0 U	34000 UJ
Bromomethane (Methyl bromide)	5.0 U	34000 UJ
Carbon disulfide	5.0 U	34000 UJ
Carbon tetrachloride	5.0 U	34000 UJ
Chlorobenzene	5.0 U	34000 UJ
Chloroethane	5.0 U	34000 UJ
Chloroform	5.0 U	34000 UJ
Chloromethane (Methyl chloride)	5.0 U	34000 UJ
cis-1,2-Dichloroethene	5.0 U	34000 UJ
cis-1,3-Dichloropropene	5.0 U	34000 UJ
Cyclohexane	5.0 U	34000 UJ
Dibromochloromethane	5.0 U	34000 UJ
Dichlorodifluoromethane	5.0 U	34000 UJ
Ethylbenzene	5.0 U	210000 J
Isopropylbenzene	5.0 U	41000 J
Methyl acetate	5.0 U	34000 UJ
Methyl tertiary butyl ether (MTBE)	5.0 U	12000 J
Methylcyclohexane	5.0 U	37000 J
Methylene chloride	5.0 U	34000 UJ
Styrene	5.0 U	22000 J
Tetrachloroethene	5.0 U	31000 J
Toluene	5.0 U	700000 J
trans-1,2-Dichloroethene	5.0 U	34000 UJ
trans-1,3-Dichloropropene	5.0 U	34000 UJ

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB21009**

Sample Designation:	BCX-TS-03	T114/115-PR-01
Sample Collection Date:	2/19/2008	2/20/2008
Field Quality Control:	Trip Blank	
Volatile Organic Compounds (cont'd)	µg/L	µg/kg, dry weight
Trichloroethene	5.0 U	34000 UJ
Trichlorofluoromethane	5.0 U	34000 UJ
Vinyl chloride	2.0 U	34000 UJ
Xylenes (total)	5.0 U	110000 J
Semivolatile Organic Compounds		µg/kg, dry weight
1,1'-Biphenyl	NA	160000 J
2,4,5-Trichlorophenol	NA	59000 UJ
2,4,6-Trichlorophenol	NA	59000 UJ
2,4-Dichlorophenol	NA	59000 UJ
2,4-Dimethylphenol	NA	59000 UJ
2,4-Dinitrophenol	NA	150000 UJ
2,4-Dinitrotoluene	NA	59000 UJ
2,6-Dinitrotoluene	NA	59000 UJ
2-Chloronaphthalene	NA	59000 UJ
2-Chlorophenol	NA	59000 UJ
2-Methylnaphthalene	NA	940000 J
2-Methylphenol	NA	59000 UJ
2-Nitroaniline	NA	59000 UJ
2-Nitrophenol	NA	59000 UJ
3 & 4-Methylphenol	NA	120000 UJ
3,3'-Dichlorobenzidine	NA	150000 UJ
3-Nitroaniline	NA	59000 UJ
4,6-Dinitro-2-methylphenol	NA	150000 UJ
4-Bromophenyl phenyl ether	NA	59000 UJ
4-Chloro-3-methyl phenol	NA	59000 UJ
4-Chloroaniline	NA	59000 UJ
4-Chlorophenyl phenyl ether	NA	59000 UJ
4-Nitroaniline	NA	59000 UJ
4-Nitrophenol	NA	150000 UJ
Acenaphthene	NA	59000 UJ
Acenaphthylene	NA	59000 UJ
Acetophenone	NA	59000 UJ
Anthracene	NA	87000 J
Atrazine	NA	59000 UJ
Benzaldehyde	NA	150000 UJ
Benzo(a)anthracene	NA	59000 UJ
Benzo(a)pyrene	NA	59000 UJ
Benzo(b)fluoranthene	NA	59000 UJ
Benzo(g,h,i)perylene	NA	59000 UJ
Benzo(k)fluoranthene	NA	59000 UJ
bis(2-Chloroethoxy)methane	NA	59000 UJ
bis(2-Chloroethyl)ether	NA	59000 UJ
bis(2-Chloroisopropyl)ether	NA	59000 UJ
bis(2-Ethylhexyl)phthalate	NA	160000 J
Butyl benzyl phthalate	NA	61000 J
Caprolactam	NA	150000 UJ

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB21009**

Sample Designation:	BCX-TS-03	T114/115-PR-01
Sample Collection Date:	2/19/2008	2/20/2008
Field Quality Control:	Trip Blank	
Semivolatile Organic Compounds (cont'd)		µg/kg, dry weight
Carbazole	NA	110000 J
Chrysene	NA	59000 UJ
Dibenzo(a,h)anthracene	NA	59000 UJ
Dibenzofuran	NA	59000 UJ
Diethylphthalate	NA	59000 UJ
Dimethyl phthalate	NA	59000 UJ
Di-n-butyl phthalate	NA	59000 UJ
Di-n-octylphthalate	NA	59000 UJ
Fluoranthene	NA	44000 J
Fluorene	NA	120000 J
Hexachlorobenzene	NA	59000 UJ
Hexachlorobutadiene	NA	59000 UJ
Hexachlorocyclopentadiene	NA	150000 UJ
Hexachloroethane	NA	59000 UJ
Indeno(1,2,3-c,d)pyrene	NA	59000 UJ
Isophorone	NA	59000 UJ
Naphthalene	NA	380000 J
Nitrobenzene	NA	59000 UJ
N-Nitrosodi-n-propylamine	NA	59000 UJ
N-Nitrosodiphenylamine/Diphenylamine	NA	59000 UJ
Pentachlorophenol	NA	150000 UJ
Phenanthrene	NA	280000 J
Phenol	NA	36000 J
Pyrene	NA	80000 J
Pesticides		µg/kg, dry weight
4,4'-DDD	NA	120 UJ
4,4'-DDE	NA	120 UJ
4,4'-DDT	NA	120 UJ
Aldrin	NA	120 UJ
alpha-BHC	NA	120 UJ
alpha-Chlordane	NA	120 UJ
beta-BHC	NA	120 UJ
delta-BHC	NA	120 UJ
Dieldrin	NA	120 UJ
Endosulfan I	NA	120 UJ
Endosulfan II	NA	120 UJ
Endosulfan sulfate	NA	120 UJ
Endrin	NA	120 UJ
Endrin aldehyde	NA	120 UJ
Endrin ketone	NA	120 UJ
gamma-BHC (Lindane)	NA	120 UJ
gamma-Chlordane	NA	120 UJ
Heptachlor	NA	120 UJ
Heptachlor epoxide	NA	120 UJ
Methoxychlor	NA	490 UJ
Toxaphene	NA	6100 UJ

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB21009**

Sample Designation:	BCX-TS-03	T114/115-PR-01
Sample Collection Date:	2/19/2008	2/20/2008
Field Quality Control:	Trip Blank	
Polychlorinated Biphenyls		µg/kg, dry weight
Aroclor-1016	NA	1300 UJ
Aroclor-1221	NA	1300 UJ
Aroclor-1232	NA	1300 UJ
Aroclor-1242	NA	1300 UJ
Aroclor-1248	NA	1300 UJ
Aroclor-1254	NA	1300 UJ
Aroclor-1260	NA	1300 UJ
Aroclor-1262	NA	1300 UJ
Aroclor-1268	NA	1300 UJ
Metals		mg/kg, dry weight
Aluminum	NA	9700
Antimony	NA	3.7 U
Arsenic	NA	19
Barium	NA	440 J
Beryllium	NA	0.60
Cadmium	NA	6.8
Calcium	NA	17000
Chromium	NA	140
Cobalt	NA	22
Copper	NA	4900
Iron	NA	34000
Lead	NA	770
Magnesium	NA	1800
Manganese	NA	240
Mercury	NA	1.4 J
Nickel	NA	140
Potassium	NA	420
Selenium	NA	1.7 J
Silver	NA	5.2
Sodium	NA	2300
Thallium	NA	2.7 J
Vanadium	NA	260
Zinc	NA	3600

Notes:

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

µg/kg = Micrograms per kilogram

µg/L = Micrograms per liter

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.

NA = The sample was not analyzed for this analyte.

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB22005**

Sample Designation:	BCX-TS-04	T12-PR-01	T12-PR-01 DUP
Sample Collection Date:	2/21/2008	2/21/2008	2/21/2008
Field Quality Control:	Trip Blank		Field Duplicate
Percent Solids		%	%
Percent Solids	NA	45.2	45.9
Volatile Organic Compounds	µg/L	µg/kg, dry weight	µg/kg, dry weight
1,1,1-Trichloroethane	5.0 U	670 U	600 U
1,1,2,2-Tetrachloroethane	5.0 U	670 U	600 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	670 U	600 U
1,1,2-Trichloroethane	5.0 U	670 U	600 U
1,1-Dichloroethane	5.0 U	670 U	600 U
1,1-Dichloroethene	5.0 U	670 U	600 U
1,2,4-Trichlorobenzene	5.0 U	670 U	600 U
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	670 U	600 U
1,2-Dibromoethane (EDB)	5.0 U	670 U	600 U
1,2-Dichlorobenzene	5.0 U	670 U	600 U
1,2-Dichloroethane	5.0 U	670 U	600 U
1,2-Dichloropropane	5.0 U	670 U	600 U
1,3-Dichlorobenzene	5.0 U	670 U	600 U
1,4-Dichlorobenzene	5.0 U	670 U	600 U
2-Butanone (MEK)	10 U	1200 J	1000 J
2-Hexanone	10 U	1300 U	1200 U
4-Methyl-2-pentanone	10 U	2800 J	1600 J
Acetone	20 U	2700 UJ	5400 J
Benzene	5.0 U	670 U	600 U
Bromodichloromethane	5.0 U	670 U	600 U
Bromoform	5.0 U	670 U	600 U
Bromomethane (Methyl bromide)	5.0 U	670 U	600 U
Carbon disulfide	5.0 U	2700 J	1600 J
Carbon tetrachloride	5.0 U	670 U	600 U
Chlorobenzene	5.0 U	670 U	600 U
Chloroethane	5.0 U	670 U	600 U
Chloroform	1.9 J	670 U	600 U
Chloromethane (Methyl chloride)	5.0 U	670 U	600 U
cis-1,2-Dichloroethene	5.0 U	670 U	600 U
cis-1,3-Dichloropropene	5.0 U	670 U	600 U
Cyclohexane	5.0 U	670 U	600 U
Dibromochloromethane	5.0 U	670 U	600 U
Dichlorodifluoromethane	5.0 U	670 U	600 U
Ethylbenzene	5.0 U	3800 J	1400 J
Isopropylbenzene	5.0 U	1300 J	600 UJ
Methyl acetate	5.0 U	670 U	600 U
Methyl tertiary butyl ether (MTBE)	5.0 U	670 U	600 U
Methylcyclohexane	5.0 U	670 U	600 U
Methylene chloride	5.0 U	670 U	600 U
Styrene	5.0 U	670 U	600 U
Tetrachloroethene	5.0 U	670 U	600 U
Toluene	5.0 U	6100 J	2600 J
trans-1,2-Dichloroethene	5.0 U	670 U	600 U
trans-1,3-Dichloropropene	5.0 U	670 U	600 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB22005**

Sample Designation:	BCX-TS-04	T12-PR-01	T12-PR-01 DUP
Sample Collection Date:	2/21/2008	2/21/2008	2/21/2008
Field Quality Control:	Trip Blank		Field Duplicate
Volatile Organic Compounds (cont'd)	µg/L	µg/kg, dry weight	µg/kg, dry weight
Trichloroethene	5.0 U	670 U	600 U
Trichlorofluoromethane	5.0 U	670 U	600 U
Vinyl chloride	2.0 U	670 U	600 U
Xylenes (total)	5.0 U	18000 J	6900 J
Semivolatile Organic Compounds		µg/kg, dry weight	µg/kg, dry weight
1,1'-Biphenyl	NA	14000 U	14000 U
2,4,5-Trichlorophenol	NA	14000 U	14000 U
2,4,6-Trichlorophenol	NA	14000 U	14000 U
2,4-Dichlorophenol	NA	14000 U	14000 U
2,4-Dimethylphenol	NA	14000 U	14000 U
2,4-Dinitrophenol	NA	36000 U	36000 U
2,4-Dinitrotoluene	NA	14000 U	14000 U
2,6-Dinitrotoluene	NA	14000 U	14000 U
2-Chloronaphthalene	NA	14000 U	14000 U
2-Chlorophenol	NA	14000 U	14000 U
2-Methylnaphthalene	NA	330000	380000
2-Methylphenol	NA	14000 U	14000 U
2-Nitroaniline	NA	14000 U	14000 U
2-Nitrophenol	NA	14000 U	14000 U
3 & 4-Methylphenol	NA	29000 U	29000 U
3,3'-Dichlorobenzidine	NA	36000 U	36000 U
3-Nitroaniline	NA	14000 U	14000 U
4,6-Dinitro-2-methylphenol	NA	36000 U	36000 U
4-Bromophenyl phenyl ether	NA	14000 U	14000 U
4-Chloro-3-methyl phenol	NA	14000 U	14000 U
4-Chloroaniline	NA	14000 U	14000 U
4-Chlorophenyl phenyl ether	NA	14000 U	14000 U
4-Nitroaniline	NA	14000 U	14000 U
4-Nitrophenol	NA	36000 U	36000 U
Acenaphthene	NA	14000 U	14000 U
Acenaphthylene	NA	14000 U	14000 U
Acetophenone	NA	14000 U	14000 U
Anthracene	NA	150000	140000
Atrazine	NA	14000 U	14000 U
Benzaldehyde	NA	36000 U	36000 U
Benzo(a)anthracene	NA	14000 U	14000 U
Benzo(a)pyrene	NA	14000 U	14000 U
Benzo(b)fluoranthene	NA	14000 U	14000 U
Benzo(g,h,i)perylene	NA	14000 U	14000 U
Benzo(k)fluoranthene	NA	14000 U	14000 U
bis(2-Chloroethoxy)methane	NA	14000 U	14000 U
bis(2-Chloroethyl)ether	NA	14000 U	14000 U
bis(2-Chloroisopropyl)ether	NA	14000 U	14000 U
bis(2-Ethylhexyl)phthalate	NA	110000	110000
Butyl benzyl phthalate	NA	48000	48000
Caprolactam	NA	36000 U	36000 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB22005**

Sample Designation:	BCX-TS-04	T12-PR-01	T12-PR-01 DUP
Sample Collection Date:	2/21/2008	2/21/2008	2/21/2008
Field Quality Control:	Trip Blank		Field Duplicate
Semivolatile Organic Compounds (cont'd)		µg/kg, dry weight	µg/kg, dry weight
Carbazole	NA	14000 U	14000 U
Chrysene	NA	14000 U	14000 U
Dibenzo(a,h)anthracene	NA	14000 U	14000 U
Dibenzofuran	NA	14000 U	14000 U
Diethylphthalate	NA	14000 U	14000 U
Dimethyl phthalate	NA	14000 U	14000 U
Di-n-butyl phthalate	NA	14000 U	14000 U
Di-n-octylphthalate	NA	14000 U	14000 U
Fluoranthene	NA	14000 U	14000 U
Fluorene	NA	14000 U	14000 U
Hexachlorobenzene	NA	14000 U	14000 U
Hexachlorobutadiene	NA	14000 U	14000 U
Hexachlorocyclopentadiene	NA	36000 U	36000 U
Hexachloroethane	NA	14000 U	14000 U
Indeno(1,2,3-c,d)pyrene	NA	14000 U	14000 U
Isophorone	NA	14000 U	14000 U
Naphthalene	NA	66000	84000
Nitrobenzene	NA	14000 U	14000 U
N-Nitrosodi-n-propylamine	NA	14000 U	14000 U
N-Nitrosodiphenylamine/Diphenylamine	NA	14000 U	14000 U
Pentachlorophenol	NA	36000 U	36000 U
Phenanthrene	NA	150000	140000
Phenol	NA	14000 U	14000 U
Pyrene	NA	14000 U	14000 U
Pesticides		µg/kg, dry weight	µg/kg, dry weight
4,4'-DDD	NA	190 U	180 U
4,4'-DDE	NA	190 U	180 U
4,4'-DDT	NA	190 U	180 U
Aldrin	NA	190 U	180 U
alpha-BHC	NA	190 U	180 U
alpha-Chlordane	NA	190 U	180 U
beta-BHC	NA	410 J	180 UJ
delta-BHC	NA	190 U	180 U
Dieldrin	NA	190 U	180 U
Endosulfan I	NA	190 U	180 U
Endosulfan II	NA	190 U	180 U
Endosulfan sulfate	NA	190 U	180 U
Endrin	NA	190 U	180 U
Endrin aldehyde	NA	190 U	180 U
Endrin ketone	NA	190 U	180 U
gamma-BHC (Lindane)	NA	190 U	180 U
gamma-Chlordane	NA	190 U	180 U
Heptachlor	NA	190 U	180 U
Heptachlor epoxide	NA	190 U	180 U
Methoxychlor	NA	740 U	720 U
Toxaphene	NA	9200 U	8900 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JB22005**

Sample Designation:	BCX-TS-04	T12-PR-01	T12-PR-01 DUP
Sample Collection Date:	2/21/2008	2/21/2008	2/21/2008
Field Quality Control:	Trip Blank		Field Duplicate
Polychlorinated Biphenyls		µg/kg, dry weight	µg/kg, dry weight
Aroclor-1016	NA	750 U	360 U
Aroclor-1221	NA	750 U	360 U
Aroclor-1232	NA	750 U	360 U
Aroclor-1242	NA	750 U	360 U
Aroclor-1248	NA	750 U	360 U
Aroclor-1254	NA	750 U	360 U
Aroclor-1260	NA	750 U	360 U
Aroclor-1262	NA	750 U	360 U
Aroclor-1268	NA	750 U	360 U
Metals		mg/kg, dry weight	mg/kg, dry weight
Aluminum	NA	31000	27000
Antimony	NA	6.5	7.2
Arsenic	NA	6.9	5.4
Barium	NA	460	440
Beryllium	NA	0.30 J	0.29 J
Cadmium	NA	8.9	9.2
Calcium	NA	19000	14000
Chromium	NA	100	89
Cobalt	NA	15	11
Copper	NA	1200	1000
Iron	NA	42000	27000
Lead	NA	110	88
Magnesium	NA	7400	6200
Manganese	NA	240	170
Mercury	NA	0.31	0.27
Nickel	NA	180	160
Potassium	NA	3700	3000
Selenium	NA	3.1 J	2.9
Silver	NA	0.70 J	0.65 J
Sodium	NA	50000	44000
Thallium	NA	2.8 U	1.7 U
Vanadium	NA	76	71
Zinc	NA	2400	2000

Notes:

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

µg/kg = Micrograms per kilogram

µg/L = Micrograms per liter

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.

NA = The sample was not analyzed for this analyte.



July 21, 2008

Mr. Matthew Huyser
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street SW, 11th Floor
Atlanta, Georgia 30303

**Subject: BCX Tank Site
Technical Direction Document Number (No.) TTEMI-05-001-0051
Contract No. EP-W-05-054 (START III Region 4)
Full Data Validation Report
Shealy Environmental Services, Inc. Work Order Nos. JC05012
Analytical Parameters: Target compound list (TCL) volatile organic compounds (VOC), TCL semivolatile organic compounds (SVOC), chlorinated pesticides, polychlorinated biphenyl compounds (PCB), and target analyte list (TAL) metals**

Laboratory Order No.	Samples	Field Duplicate Pairs	Field Quality Control Samples
JC05012	Waste Sample: T104-PR-01	None	BCX-TS-05

Dear Mr. Huyser:

The Tetra Tech Superfund Technical Assessment and Response Team (START) conducted data validation of the analytical results for one waste sample and one aqueous quality control (QC) sample (one trip blank) that were collected at the BCX Tank Site in Jacksonville, Florida, on March 4, 2008. The samples were analyzed under laboratory work order No. JC05012 by Shealy Environmental Services, Inc. (Shealy), of West Columbia, South Carolina. The samples were analyzed for TCL VOCs by SW-846 Method 8260B, TCL SVOCs by SW-846 Method 8270C, chlorinated pesticides by SW-846 Method 8081A, PCBs by SW-846 Method 8082, and TAL metals by SW-846 Methods 7470A and 7471A for mercury and 6010B for the remaining metals.

Analytical data were evaluated in general accordance with all applicable data validation guidance documents, including the following: the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) National Functional Guidelines (NFG) for Superfund Organic Methods Data Review (EPA, July 2007) and the U.S. EPA CLP NFG for Inorganic Data Review (EPA October 2004). The analytical methods used by the fixed laboratories during this project provide guidance on procedures and method acceptance criteria that, in some areas, differ from the NFGs. Where the methods and the NFGs differ, the data validators followed the acceptance criteria in the methods. In addition, if laboratory-derived acceptance criteria were presented in the fixed laboratory data package, then these criteria were used to evaluate the data unless the criteria were considered inadequate.

Data were evaluated based on the following criteria:

- Data Completeness
- Sample Preservation, Sample Receipt, and Holding Times
- Gas Chromatography and Mass Spectrometry (GC/MS) Instrument Performance Checks
- Gas Chromatograph with Electron Capture Detector (GC/ECD) Instrument Performance Check

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- DDT/Endrin Breakdown (pesticides only)
- Initial Calibration
- Continuing Calibrations
- Calibration Verification
- Initial and Continuing Calibration Verification
- Field and Laboratory Blanks
- Inductively Coupled Plasma (ICP) – Interference Check Samples (ICS)
- System Monitoring Compounds (Surrogates)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD)
- Laboratory Duplicate Sample Analysis
- Spike Sample Analysis
- ICP Serial Dilution
- Field Duplicates
- Laboratory Control Samples (LCS) and Laboratory Control Sample Duplicates (LCSD)
- Dilution by Addition of Solvent
- Dilution by Re-extraction and Reanalysis
- Second Column Confirmation
- Internal Standards
- Target Analyte Identification
- Analyte Quantitation and Reported Detection Limits
- System Performance and Instrument Stability

The following data validation approach was used; it should meet the needs of most data uses and requirements for limits on uncertainty for decision-making using the data. This approach consisted of a review of all of the data, including the raw data. This data validation effort constituted a full validation of the data and involved a 100 percent check against applicable acceptance criteria of all quality control (QC) parameter data, including the parameters listed above. In addition, all data that pertain to analyte identification, such as chromatograms and mass spectra, were checked completely (100 percent) to evaluate the accuracy of analyte identification. This effort involved an in-depth quantitative check of a fraction of the data; this check involved recalculation of QC results (such as percent recoveries [%R] and relative percent difference [RPD] values) and target analyte results from the raw data. Results were recalculated at a frequency of 10 percent for the data that had been transcribed and generated by hand. Results for data calculated by software were recalculated at varying frequencies and to the extent necessary to confirm the adequacy of the software. If errors or discrepancies were encountered when any data were recalculated and checked, the extent of the data check was expanded, as necessary, to identify the full extent of the problem.

Enclosure 1 presents copies of the sample analytical results sheets from the laboratory data package, with hand-entered qualifications from the data validation effort. Enclosure 2 presents the same data validation-qualified analytical results in table format.

The following sections discuss the data package and provide an overall assessment of the data. This discussion concentrates on the irregularities associated with the various parameters.

DATA COMPLETENESS

The data packages for laboratory work order No. JC05012 were complete.

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SAMPLE PRESERVATION, SAMPLE RECEIPT, AND HOLDING TIMES

There were no discrepancies observed in the sample preservation, sample receipt or method-specified holding times.

GC/MS INSTRUMENT PERFORMANCE CHECKS

All GC/MS instrument performance checks for the analysis of samples for VOCs and SVOCs met the acceptance criteria.

GC/ECD INSTRUMENT PERFORMANCE CHECK

All GC/ECD instrument performance checks for the analysis of samples for chlorinated pesticides and PCBs met the acceptance criteria.

DDT/ENDRIN BREAKDOWN

The breakdown percentages for both DDT and endrin for the analysis of samples for chlorinated pesticides met the acceptance criteria.

INITIAL CALIBRATION

The initial calibrations were analyzed at the proper frequencies and concentrations and met all requirements.

CONTINUING CALIBRATIONS

The continuing calibrations were analyzed at the proper frequencies and concentrations and met all requirements, with the following exceptions. In the pesticide and PCB continuing calibrations, a few peaks had excessive percent differences from the average initial calibration results. No qualifications are warranted because only one of the two columns was affected and the results were reported from the column within QC limits.

CALIBRATION VERIFICATION

The second source calibration verifications for the organic analyses and the Contract Required Quantitation Limit (CRQL) Check Standard (CRI) for the inorganic analyses were analyzed at the proper frequencies and concentrations and met all requirements with these exceptions. The SVOC calibration verification had excessive percent differences for 1,1'-biphenyl (98 percent), 3,3'-dichlorobenzidine (66 percent), 4-chloroaniline (37 percent), acetophenone (98 percent), and caprolactam (101 percent). No qualifications were applied because these compounds, and all others, were within QC limits for the continuing calibration analyzed just before the samples.

INITIAL AND CONTINUING CALIBRATION VERIFICATION

The initial and continuing calibration verifications for the inorganic analyses were analyzed at the proper frequencies and concentrations and met all requirements with one exception. The continuing calibration run immediately after sample analysis had an excessive percent difference for cadmium. The sample was reanalyzed for cadmium only a few days later. Since all calibrations were acceptable during the re-analysis, no qualifications are warranted.

FIELD AND LABORATORY BLANKS

Method blanks and the equipment rinsate blank were free of target analytes with the following exceptions. In the SVOC analysis, the method blank contained a low concentration of the common laboratory

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contaminant bis(2-ethylhexyl)phthalate. In the pesticide analysis, endrin and heptachlor were detected above the reporting limit in the method blank. No qualifications were applied because sample T104-PR-01 contained either much higher concentrations or no detectable concentrations of the listed blank contaminants.

In the metals analysis, low-level concentrations of aluminum, arsenic, antimony, beryllium, cobalt, lead, magnesium, potassium, thallium, and other metals were detected in the method and calibration blanks. The similar concentration of beryllium in sample T104-PR-01 was qualified as undetected (flagged "U"). No qualifications were warranted for aluminum, arsenic, antimony, cobalt, lead, magnesium, potassium, thallium, and other metals because sample results were either not detected or present at more than five times the blank concentration.

A low concentration of the common potable water contaminant chloroform was detected in the trip blank. No qualifications were warranted because chloroform was not detected in the product sample.

ICP INTERFERENCE CHECK SAMPLES

All ICSs were within the QC limits.

SYSTEM MONITORING COMPOUNDS (SURROGATES)

All surrogate recoveries were within the laboratory-specified control limits, with the following exceptions. The recovery for toluene-d8 (62 percent) was biased low and outside QC limits of 68 to 124 percent in sample T104-PR-01. Therefore, all VOC results were qualified as estimated (flagged "J" or "UJ", as appropriate) for sample T104-PR-01.

In the SVOC analysis of sample T104-PR-01, the recoveries for 2,4,6-tribromophenol (247 percent, versus 30 to 117 percent), 2-fluorobiphenyl (144 percent, versus 33 to 102 percent), and nitrobenzene-d₅ (137 percent, versus 22 to 109 percent) were biased high and outside their respective QC limits. Therefore all detected base/neutral results in sample T104-PR-01 were qualified as estimated (flagged "J"). No qualifications were applied to the acidic results because only one acidic surrogate was outside QC limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATES

No MS/MSD analyses were performed with these analyses. Duplicate LCS analyses provided adequate information on precision and accuracy, so no qualifications are warranted for this data gap.

LABORATORY DUPLICATE SAMPLE ANALYSIS

Laboratory duplicate sample analyses were not performed. Precision was evaluated based on LCS and LCSD analyses.

SPIKE SAMPLE ANALYSIS

Post digestion spikes were neither required nor performed.

ICP SERIAL DILUTION

An ICP serial dilution was not performed. No qualifications are warranted for this data gap.

FIELD DUPLICATES

No field duplicate samples were collected and provided to the fixed laboratory.

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LABORATORY CONTROL SAMPLES (LCS) AND LABORATORY CONTROL SAMPLE DUPLICATES (LCSD)

All LCS and LCSD results were within the QC limits.

DILUTION BY ADDITION OF SOLVENT

The VOC fraction for the waste sample was analyzed using the medium-concentration methanol dilution approach, resulting in 100-fold dilutions for the waste sample. Reporting limits were adjusted accordingly.

In the SVOC analysis, sample T104-PR-01 was analyzed at a 10-fold dilution to bring in target analytes with the calibration range and to reduce matrix interference. Reporting limits were adjusted accordingly. The sample extract was reanalyzed at a 50-fold dilution to bring the concentration of 2-methylnaphthalene within calibration range. The 2-methylnaphthalene result reported from the dilution was within the calibration range, so no qualifications are warranted.

In the PCB analysis, sample T104-PR-01 was analyzed at a 20-fold dilution to reduce matrix interference. Reporting limits were adjusted accordingly.

In the chlorinated pesticide analysis, sample T104-PR-01 was analyzed at a 200-fold dilution to reduce matrix interference. The sample extract was then reanalyzed at a 400-fold dilution to further decrease matrix interference near the gamma-chlordane peak. Reporting limits were adjusted accordingly.

In the metals analysis, sample T104-PR-01 was analyzed at a five-fold dilution to bring concentrations of iron and sodium with the calibration range. Reporting limits were adjusted accordingly.

DILUTION BY RE-EXTRACTION AND REANALYSIS

No samples were re-extracted and reanalyzed.

SECOND COLUMN CONFIRMATION

For the chlorinated pesticide and PCB analyses, the QC limits for confirmation between the primary and secondary columns for detected results were met in all cases.

INTERNAL STANDARDS

For the VOC and SVOC analyses, the internal standard area counts and retention times in the samples were within QC limits established using the associated continuing calibration standard data.

TARGET ANALYTE IDENTIFICATION

The relative retention times (RRT) of the reported compounds in the VOC, SVOC, chlorinated pesticide, and PCB analyses were within ± 0.06 RRT units of the standard RRTs. For each detected analyte in the VOC and SVOC analyses, all ions present in the standard mass spectrum at a relative intensity greater than 10 percent were present in the sample spectrum and agreed within ± 20 percent between the standard and sample spectra.

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ANALYTE QUANTITATION AND REPORTED DETECTION LIMITS

Sample results were checked for proper dilution factors, volumes, masses, and adjustments for moisture content. Sample results and reporting limits were correctly calculated. Sample results below the calibration range, or less than the laboratory reporting limits (RL) but greater than the method detection limits (MDL), were qualified as estimated (flagged "J").

TENTATIVELY IDENTIFIED COMPOUNDS

All tentatively identified compound (TIC) results in the volatile and semivolatile analyses with the exception of unknown compounds were qualified as tentatively identified and estimated, "NJ." Unknown compounds were qualified as estimated, "J." TIC results were checked for proper dilution factors, volumes, masses, and adjustments for moisture content. TIC results were correctly calculated.

SYSTEM PERFORMANCE AND INSTRUMENT STABILITY

No signs of degraded instrument performance were observed. Analytical systems were judged to have been within control and stable during the analyses.

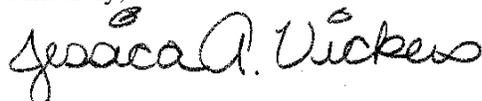
OVERALL ASSESSMENT OF DATA

The overall quality of this data package was acceptable, with the following exceptions. The quality of all data was acceptable. The data validation flags that were assigned based on other quality control issues are detailed below. All data can be used as qualified for any purpose.

Sample Designation	Flag	Analysis	Parameter	Reason
T104 -PR-01	J, UJ	VOC	All analytes	Surrogate recovery outside limits
T104-PR-01	J	SVOC	1,1-Biphenyl; 2-Methylnaphthalene; Anthracene; Benzo(a)anthracene; bis(2-Ethylhexyl)phthalate; Chrysene; Di-n-butylphthalate; Naphthalene	Surrogate recoveries outside limits
T104-PR-01	U	Metals	Beryllium	Blank contamination

Please call me at (678) 775-3104 if you have any questions regarding this data validation report.

Sincerely,



Jessica Vickers
START III Quality Assurance Manager

Enclosures (2)

cc: Katrina Jones, EPA Project Officer
Darryl Walker, EPA Alternate Project Officer
Angel Reed, Tetra Tech START III Document Control Coordinator



ENCLOSURE 1

**FIXED LABORATORY ANALYTICAL RESULTS SHEETS
WITH HAND-ENTERED DATA VALIDATION QUALIFIERS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. WORK ORDER NO. JC05012**

(11 Pages)

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.

Laboratory ID: JC05012-001

Description: T104-PR-01

Matrix: Solid

Date Sampled: 03/04/2008 0930

% Solids: 36.4 03/05/2008 2237

Date Received: 03/05/2008

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	100	03/06/2008 0155	CMS		74593	1.34

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	2300	J	20000	1800	ug/kg	1
Benzene	71-43-2	8260B	3000	J	5100	1100	ug/kg	1
Bromodichloromethane	75-27-4	8260B	ND		5100	1100	ug/kg	1
Bromoform	75-25-2	8260B	ND		5100	720	ug/kg	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5100	1800	ug/kg	1
2-Butanone (MEK)	78-93-3	8260B	ND		10000	2500	ug/kg	1
Carbon disulfide	75-15-0	8260B	ND		5100	1300	ug/kg	1
Carbon tetrachloride	56-23-5	8260B	ND		5100	1800	ug/kg	1
Chlorobenzene	108-90-7	8260B	ND		5100	1500	ug/kg	1
Chloroethane	75-00-3	8260B	ND		5100	1300	ug/kg	1
Chloroform	67-66-3	8260B	ND		5100	850	ug/kg	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5100	1000	ug/kg	1
Cyclohexane	110-82-7	8260B	7000	J	5100	690	ug/kg	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5100	1500	ug/kg	1
Dibromochloromethane	124-48-1	8260B	ND		5100	640	ug/kg	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5100	870	ug/kg	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5100	950	ug/kg	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5100	1300	ug/kg	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5100	1500	ug/kg	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5100	1600	ug/kg	1
1,1-Dichloroethane	75-34-3	8260B	ND		5100	750	ug/kg	1
1,2-Dichloroethane	107-06-2	8260B	ND		5100	1000	ug/kg	1
1,1-Dichloroethene	75-35-4	8260B	ND		5100	1700	ug/kg	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5100	780	ug/kg	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5100	1500	ug/kg	1
1,2-Dichloropropane	78-87-5	8260B	ND		5100	930	ug/kg	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5100	700	ug/kg	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5100	840	ug/kg	1
Ethylbenzene	100-41-4	8260B	18000	J	5100	1100	ug/kg	1
2-Hexanone	591-78-6	8260B	ND		10000	1300	ug/kg	1
Isopropylbenzene	98-82-8	8260B	5100	J	5100	820	ug/kg	1
Methyl acetate	79-20-9	8260B	ND		5100	690	ug/kg	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5100	410	ug/kg	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10000	1500	ug/kg	1
Methylcyclohexane	108-87-2	8260B	4100	J	5100	620	ug/kg	1
Methylene chloride	75-09-2	8260B	ND		5100	2700	ug/kg	1
Styrene	100-42-5	8260B	ND		5100	1100	ug/kg	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5100	480	ug/kg	1
Tetrachloroethene	127-18-4	8260B	3000	J	5100	2400	ug/kg	1
Toluene	108-88-3	8260B	52000	J	5100	1400	ug/kg	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5100	2200	ug/kg	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5100	1000	ug/kg	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5100	870	ug/kg	1
1,1,2-Trichloroethane	79-00-5	8260B	2900	J	5100	810	ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

HVE
3 June 2008

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-001
Description: T104-PR-01	Matrix: Solid
Date Sampled: 03/04/2008 0930	% Solids: 36.4 03/05/2008 2237
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch	Sample Wt.(g)
1	5035	8260B	100	03/06/2008 0155	CMS		74593	1.34

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5100 ^{u)}	1900	ug/kg	1
Trichlorofluoromethane	75-69-4	8260B	ND		5100 ^{u)}	1500	ug/kg	1
Vinyl chloride	75-01-4	8260B	ND		5100 ^{u)}	880	ug/kg	1
Xylenes (total)	1330-20-7	8260B	97000	J	5100	3000	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		62	53-142
Bromofluorobenzene		58	47-138
Toluene-d8	N	62	68-124

HJK
3 June 08

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-001
Description: T104-PR-01	Matrix: Solid
Date Sampled: 03/04/2008 0930	% Solids: 36.4 03/05/2008 2237
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5035	8260B	100	03/06/2008 0155	CMS		74988

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Unknown		8260B	25000	J			ug/kg	1	
Pentane, 2,2,4-trimethyl-		8260B	8300	NJ			ug/kg	1	
Benzene, 1-methyl-4-propyl-		8260B	2300				ug/kg	1	
Benzene, 1-methyl-3-(1-methylethyl)-		8260B	11000				ug/kg	1	
Benzene, 1-methyl-2-(1-methylethyl)-		8260B	2800				ug/kg	1	
Benzene, 1,2,3,4-tetramethyl-		8260B	11000				ug/kg	1	
1-Phenyl-1-butene		8260B	7000				ug/kg	1	
Benzene, 1,2-diethyl-		8260B	13000				ug/kg	1	
Naphthalene, 1,2,3,4-tetrahydro-		8260B	3800				ug/kg	1	
1H-Indene, 2,3-dihydro-1,2-dimethyl-		8260B	14000		N			ug/kg	1

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

Library Search

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-001
Description: T104-PR-01	Matrix: Solid
Date Sampled: 03/04/2008 0930	% Solids: 36.4 03/05/2008 2237
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8270C	10	03/11/2008 1353	GLR		74928

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run	
Dodecane		8270C	150000	NJ			ug/kg	1	
Tridecane		8270C	260000				ug/kg	1	
Tetradecane		8270C	280000				ug/kg	1	
Naphthalene, 2,6-dimethyl-		8270C	180000				ug/kg	1	
Naphthalene, 1,4-dimethyl-		8270C	420000				ug/kg	1	
Naphthalene, 2,3-dimethyl-		8270C	120000				ug/kg	1	
Pentadecane		8270C	290000				ug/kg	1	
Naphthalene, 1,6,7-trimethyl-		8270C	130000				ug/kg	1	
Naphthalene, 2,3,6-trimethyl-		8270C	130000				ug/kg	1	
Hexadecane		8270C	200000				ug/kg	1	
Pentadecane, 2,6,10-trimethyl-		8270C	150000				ug/kg	1	
Benzene, 1-methyl-3-(phenylmethyl)-		8270C	150000				ug/kg	1	
Tetracosane		8270C	720000				ug/kg	1	
Octadecane		8270C	420000				ug/kg	1	
Nonadecane		8270C	270000				ug/kg	1	
2-Propenoic acid, 3-(4-methoxyphenyl)-,		8270C	600000		NJ			ug/kg	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-001
Description: T104-PR-01	Matrix: Solid
Date Sampled: 03/04/2008 0930	% Solids: 36.4 03/05/2008 2237
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3550B	8270C	10	03/11/2008 1353	GLR	03/07/2008 1800	74689			
2	3550B	8270C	50	03/11/2008 1707	GLR	03/07/2008 1800	74689			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		9100 <i>u3</i>	280	ug/kg	1
Acenaphthylene	208-96-8	8270C	ND		9100 <i>u3</i>	360	ug/kg	1
Acetophenone	98-86-2	8270C	ND		9100 <i>u3</i>	540	ug/kg	1
Anthracene	120-12-7	8270C	150000	J	9100	400	ug/kg	1
Atrazine	1912-24-9	8270C	ND		9100 <i>u3</i>	2700	ug/kg	1
Benzaldehyde	100-52-7	8270C	ND		23000 <i>u3</i>	720	ug/kg	1
Benzo(a)anthracene	56-55-3	8270C	9600	J	9100	300	ug/kg	1
Benzo(a)pyrene	50-32-8	8270C	ND		9100 <i>u3</i>	660	ug/kg	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		9100 <i>u3</i>	610	ug/kg	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		9100 <i>u3</i>	620	ug/kg	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		9100 <i>u3</i>	750	ug/kg	1
1,1'-Biphenyl	92-52-4	8270C	96000	J	9100	840	ug/kg	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		9100 <i>u3</i>	380	ug/kg	1
Butyl benzyl phthalate	85-68-7	8270C	ND		9100 <i>u3</i>	290	ug/kg	1
Caprolactam	105-60-2	8270C	ND		23000 <i>u3</i>	670	ug/kg	1
Carbazole	86-74-8	8270C	ND		9100 <i>u3</i>	270	ug/kg	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		9100 <i>u3</i>	500	ug/kg	1
4-Chloroaniline	106-47-8	8270C	ND		9100 <i>u3</i>	470	ug/kg	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		9100 <i>u3</i>	400	ug/kg	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		9100 <i>u3</i>	380	ug/kg	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		9100 <i>u3</i>	350	ug/kg	1
2-Chloronaphthalene	91-58-7	8270C	ND		9100 <i>u3</i>	430	ug/kg	1
2-Chlorophenol	95-57-8	8270C	ND		9100 <i>u3</i>	380	ug/kg	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		9100 <i>u3</i>	360	ug/kg	1
Chrysene	218-01-9	8270C	14000	N	9100	280	ug/kg	1
Di-n-butyl phthalate	84-74-2	8270C	42000	N	9100	1200	ug/kg	1
Di-n-octylphthalate	117-84-0	8270C	ND		9100 <i>u3</i>	1100	ug/kg	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		9100 <i>u3</i>	600	ug/kg	1
Dibenzofuran	132-64-9	8270C	ND		9100 <i>u3</i>	360	ug/kg	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		23000 <i>u3</i>	1600	ug/kg	1
2,4-Dichlorophenol	120-83-2	8270C	ND		9100 <i>u3</i>	370	ug/kg	1
Diethylphthalate	84-66-2	8270C	ND		9100 <i>u3</i>	350	ug/kg	1
Dimethyl phthalate	131-11-3	8270C	ND		9100 <i>u3</i>	260	ug/kg	1
2,4-Dimethylphenol	105-67-9	8270C	ND		9100 <i>u3</i>	470	ug/kg	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		23000 <i>u3</i>	1000	ug/kg	1
2,4-Dinitrophenol	51-28-5	8270C	ND		23000 <i>u3</i>	180	ug/kg	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		9100 <i>u3</i>	670	ug/kg	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		9100 <i>u3</i>	790	ug/kg	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	170000	J	9100	570	ug/kg	1
Fluoranthene	206-44-0	8270C	ND		9100 <i>u3</i>	280	ug/kg	1
Fluorene	86-73-7	8270C	ND		9100 <i>u3</i>	350	ug/kg	1
Hexachlorobenzene	118-74-1	8270C	ND		9100 <i>u3</i>	360	ug/kg	1
Hexachlorobutadiene	87-68-3	8270C	ND		9100 <i>u3</i>	370	ug/kg	1

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

HUG
3 Jun 08

07/21/08

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-001
Description: T104-PR-01	Matrix: Solid
Date Sampled: 03/04/2008 0930	% Solids: 36.4 03/05/2008 2237
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	3550B	8270C	10	03/11/2008 1353	GLR	03/07/2008 1800	74689			
2	3550B	8270C	50	03/11/2008 1707	GLR	03/07/2008 1800	74689			

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachlorocyclopentadiene	77-47-4	8270C	ND		23000	1800	ug/kg	1
Hexachloroethane	67-72-1	8270C	ND		9100	450	ug/kg	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		9100	820	ug/kg	1
Isophorone	78-59-1	8270C	ND		9100	430	ug/kg	1
2-Methylnaphthalene	91-57-6	8270C	580000	J	45000	1600	ug/kg	2
2-Methylphenol	95-48-7	8270C	ND		9100	510	ug/kg	1
3 & 4-Methylphenol	106-44-5	8270C	ND		18000	860	ug/kg	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		9100	460	ug/kg	1
N-Nitrosodiphenylamine/Diphenylamine	86-30-6	8270C	ND		9100	300	ug/kg	1
Naphthalene	91-20-3	8270C	150000	J	9100	380	ug/kg	1
2-Nitroaniline	88-74-4	8270C	ND		9100	640	ug/kg	1
3-Nitroaniline	99-09-2	8270C	ND		9100	650	ug/kg	1
4-Nitroaniline	100-01-6	8270C	ND		9100	540	ug/kg	1
Nitrobenzene	98-95-3	8270C	ND		9100	420	ug/kg	1
2-Nitrophenol	88-75-5	8270C	ND		9100	980	ug/kg	1
4-Nitrophenol	100-02-7	8270C	ND		23000	3900	ug/kg	1
Pentachlorophenol	87-86-5	8270C	ND		23000	960	ug/kg	1
Phenanthrene	85-01-8	8270C	ND		9100	370	ug/kg	1
Phenol	108-95-2	8270C	ND		9100	430	ug/kg	1
Pyrene	129-00-0	8270C	ND		9100	390	ug/kg	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		9100	470	ug/kg	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		9100	500	ug/kg	1

Surrogate	Q	Run 1		Run 2	
		% Recovery	Acceptance Limits	% Recovery	Acceptance Limits
2,4,6-Tribromophenol	N	247	30-117	N	0.0 30-117
2-Fluorobiphenyl	N	144	33-102	N	0.0 33-102
2-Fluorophenol		50	28-104	N	0.0 28-104
Nitrobenzene-d5	N	137	22-109	N	0.0 22-109
Phenol-d5		71	27-103	N	0.0 27-103
Terphenyl-d14		90	41-120	N	0.0 41-120

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3 Jun 08
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07/21/08

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

PCBs by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-001
Description: T104-PR-01	Matrix: Solid
Date Sampled: 03/04/2008 0930	% Solids: 36.4 03/05/2008 2237
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3550B	8082	20	03/10/2008 1333	JCG	03/07/2008 1540	74690

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aroclor 1016	12674-11-2	8082	ND		920	59	ug/kg	1
Aroclor 1221	11104-28-2	8082	ND		920	520	ug/kg	1
Aroclor 1232	11141-16-5	8082	ND		920	180	ug/kg	1
Aroclor 1242	53469-21-9	8082	ND		920	120	ug/kg	1
Aroclor 1248	12672-29-6	8082	ND		920	200	ug/kg	1
Aroclor 1254	11097-69-1	8082	ND		920	97	ug/kg	1
Aroclor 1260	11096-82-5	8082	ND		920	310	ug/kg	1
Aroclor 1262	37324-23-5	8082	ND		920	430	ug/kg	1
Aroclor 1268	11100-14-4	8082	ND		920	430	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
Decachlorobiphenyl		96	50-130
Tetrachloro-m-xylene		76	50-130

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Organochlorine Pesticides by GC

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-001
Description: T104-PR-01	Matrix: Solid
Date Sampled: 03/04/2008 0930	% Solids: 36.4 03/05/2008 2237
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
2	3550B	8081A	400	03/19/2008 0247	JCG	03/13/2008 1305	75053
3	3550B	8081A	200	03/19/2008 0230	JCG	03/13/2008 1305	75053

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aldrin	309-00-2	8081A	ND		930	190	ug/kg	3
alpha-BHC	319-84-6	8081A	ND		930	210	ug/kg	3
beta-BHC	319-85-7	8081A	260	J	930	160	ug/kg	3
delta-BHC	319-86-8	8081A	ND		930	180	ug/kg	3
gamma-BHC (Lindane)	58-89-9	8081A	ND		930	200	ug/kg	3
alpha-Chlordane	5103-71-9	8081A	ND		930	160	ug/kg	3
gamma-Chlordane	5103-74-2	8081A	ND		1900	260	ug/kg	2
4,4'-DDD	72-54-8	8081A	ND		930	140	ug/kg	3
4,4'-DDE	72-55-9	8081A	ND		930	180	ug/kg	3
4,4'-DDT	50-29-3	8081A	ND		930	150	ug/kg	3
Dieldrin	60-57-1	8081A	ND		930	180	ug/kg	3
Endosulfan I	959-98-8	8081A	ND		930	190	ug/kg	3
Endosulfan II	33213-65-9	8081A	ND		930	140	ug/kg	3
Endosulfan sulfate	1031-07-8	8081A	ND		930	120	ug/kg	3
Endrin	72-20-8	8081A	ND		930	180	ug/kg	3
Endrin aldehyde	7421-93-4	8081A	ND		930	160	ug/kg	3
Endrin ketone	53494-70-5	8081A	ND		930	120	ug/kg	3
Heptachlor	76-44-8	8081A	ND		930	210	ug/kg	3
Heptachlor epoxide	1024-57-3	8081A	ND		930	170	ug/kg	3
Methoxychlor	72-43-5	8081A	ND		3700	730	ug/kg	3
Toxaphene	8001-35-2	8081A	ND		45000	5000	ug/kg	3

Surrogate	Run 2		Run 3	
	Q	% Recovery	Q	% Recovery
Decachlorobiphenyl		108		130
Tetrachloro-m-xylene		61		58

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-001
Description: T104-PR-01	Matrix: Solid
Date Sampled: 03/04/2008 0930	% Solids: 36.4 03/05/2008 2237
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7471A	1	03/08/2008 1059	FLW	03/07/2008 1902	74733
1	3050B	6010B	5	03/11/2008 1551	KJC	03/06/2008 2016	74636
2	3050B	6010B	5	03/20/2008 1348	MNM	03/06/2008 2016	74636

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	9500	B	140	18	mg/kg	1
Antimony	7440-36-0	6010B	3.7	J	6.9	2.4	mg/kg	1
Arsenic	7440-38-2	6010B	ND		6.9	2.6	mg/kg	1
Barium	7440-39-3	6010B	190		18	1.2	mg/kg	1
Beryllium	7440-41-7	6010B	0.40	J U	2.7	0.38	mg/kg	1
Cadmium	7440-43-9	6010B	3.4		1.4	0.14	mg/kg	2
Calcium	7440-70-2	6010B	7300		3400	240	mg/kg	1
Chromium	7440-47-3	6010B	50		3.4	0.70	mg/kg	1
Cobalt	7440-48-4	6010B	7.5	J	18	1.3	mg/kg	1
Copper	7440-50-8	6010B	710		3.4	0.66	mg/kg	1
Iron	7439-89-6	6010B	67000		69	23	mg/kg	1
Lead	7439-92-1	6010B	72	B	6.9	1.3	mg/kg	1
Magnesium	7439-95-4	6010B	2200	J	3400	250	mg/kg	1
Manganese	7439-96-5	6010B	170		10	0.79	mg/kg	1
Mercury	7439-97-6	7471A	0.30		0.23	0.016	mg/kg	1
Nickel	7440-02-0	6010B	93		27	2.1	mg/kg	1
Potassium	7440-09-7	6010B	2300	J	3400	150	mg/kg	1
Selenium	7782-49-2	6010B	ND		6.9	2.4	mg/kg	1
Silver	7440-22-4	6010B	ND		3.4	0.58	mg/kg	1
Sodium	7440-23-5	6010B	25000		3400	240	mg/kg	1
Thallium	7440-28-0	6010B	11	J	34	3.5	mg/kg	1
Vanadium	7440-62-2	6010B	66		34	2.1	mg/kg	1
Zinc	7440-66-6	6010B	2400		34	4.7	mg/kg	1

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 3 Jun 08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-002
Description: BCX-TS-05	Matrix: Aqueous
Date Sampled: 03/04/2008 1400	
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/05/2008 2045	JGR		74626

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	1.5	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	0.20	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	0.20	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	1.8	J	5.0	0.30	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	0.50	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	0.30	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	0.30	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	0.20	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	0.30	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	0.30	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.0	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JC05012-002
Description: BCX-TS-05	Matrix: Aqueous
Date Sampled: 03/04/2008 1400	
Date Received: 03/05/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	03/05/2008 2045	JGR		74626

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	0.50	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		90	70-130
Bromofluorobenzene		91	70-130
Toluene-d8		92	70-130

PQL = Practical quantitation limit

ND = Not detected at or above the MDL

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank

J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

ENCLOSURE 2

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. WORK ORDER NO. JC05012**

(4 Pages)

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JC05012**

Sample Designation:	BCX-TS-05	T104-PR-01
Sample Collection Date:	3/4/2008	3/4/2008
Field Quality Control:	Trip Blank	
Percent Solids		%
Percent Solids	NA	36.4
Volatile Organic Compounds	µg/L	µg/kg, dry weight
1,1,1-Trichloroethane	5.0 U	5100 UJ
1,1,2,2-Tetrachloroethane	5.0 U	5100 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	5100 UJ
1,1,2-Trichloroethane	5.0 U	2900 J
1,1-Dichloroethane	5.0 U	5100 UJ
1,1-Dichloroethene	5.0 U	5100 UJ
1,2,4-Trichlorobenzene	5.0 U	5100 UJ
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5100 UJ
1,2-Dibromoethane (EDB)	5.0 U	5100 UJ
1,2-Dichlorobenzene	5.0 U	5100 UJ
1,2-Dichloroethane	5.0 U	5100 UJ
1,2-Dichloropropane	5.0 U	5100 UJ
1,3-Dichlorobenzene	5.0 U	5100 UJ
1,4-Dichlorobenzene	5.0 U	5100 UJ
2-Butanone (MEK)	10 U	10000 UJ
2-Hexanone	10 U	10000 UJ
4-Methyl-2-pentanone	10 U	10000 UJ
Acetone	20 U	2300 J
Benzene	5.0 U	3000 J
Bromodichloromethane	5.0 U	5100 UJ
Bromoform	5.0 U	5100 UJ
Bromomethane (Methyl bromide)	5.0 U	5100 UJ
Carbon disulfide	5.0 U	5100 UJ
Carbon tetrachloride	5.0 U	5100 UJ
Chlorobenzene	5.0 U	5100 UJ
Chloroethane	5.0 U	5100 UJ
Chloroform	1.8 J	5100 UJ
Chloromethane (Methyl chloride)	5.0 U	5100 UJ
cis-1,2-Dichloroethene	5.0 U	5100 UJ
cis-1,3-Dichloropropene	5.0 U	5100 UJ
Cyclohexane	5.0 U	7000 J
Dibromochloromethane	5.0 U	5100 UJ
Dichlorodifluoromethane	5.0 U	5100 UJ
Ethylbenzene	5.0 U	18000 J
Isopropylbenzene	5.0 U	5100 J
Methyl acetate	5.0 U	5100 UJ
Methyl tertiary butyl ether (MTBE)	5.0 U	5100 UJ
Methylcyclohexane	5.0 U	4100 J
Methylene chloride	5.0 U	5100 UJ
Styrene	5.0 U	5100 UJ
Tetrachloroethene	5.0 U	3000 J
Toluene	5.0 U	52000 J
trans-1,2-Dichloroethene	5.0 U	5100 UJ
trans-1,3-Dichloropropene	5.0 U	5100 UJ

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JC05012**

Sample Designation:	BCX-TS-05	T104-PR-01
Sample Collection Date:	3/4/2008	3/4/2008
Field Quality Control:	Trip Blank	
Volatile Organic Compounds (cont'd)	µg/L	µg/kg, dry weight
Trichloroethene	5.0 U	5100 UJ
Trichlorofluoromethane	5.0 U	5100 UJ
Vinyl chloride	2.0 U	5100 UJ
Xylenes (total)	5.0 U	97000 J
Semivolatile Organic Compounds		µg/kg, dry weight
1,1'-Biphenyl	NA	96000 J
2,4,5-Trichlorophenol	NA	9100 U
2,4,6-Trichlorophenol	NA	9100 U
2,4-Dichlorophenol	NA	9100 U
2,4-Dimethylphenol	NA	9100 U
2,4-Dinitrophenol	NA	23000 U
2,4-Dinitrotoluene	NA	9100 U
2,6-Dinitrotoluene	NA	9100 U
2-Chloronaphthalene	NA	9100 U
2-Chlorophenol	NA	9100 U
2-Methylnaphthalene	NA	580000 J
2-Methylphenol	NA	9100 U
2-Nitroaniline	NA	9100 U
2-Nitrophenol	NA	9100 U
3 & 4-Methylphenol	NA	18000 U
3,3'-Dichlorobenzidine	NA	23000 U
3-Nitroaniline	NA	9100 U
4,6-Dinitro-2-methylphenol	NA	23000 U
4-Bromophenyl phenyl ether	NA	9100 U
4-Chloro-3-methyl phenol	NA	9100 U
4-Chloroaniline	NA	9100 U
4-Chlorophenyl phenyl ether	NA	9100 U
4-Nitroaniline	NA	9100 U
4-Nitrophenol	NA	23000 U
Acenaphthene	NA	9100 U
Acenaphthylene	NA	9100 U
Acetophenone	NA	9100 U
Anthracene	NA	150000 J
Atrazine	NA	9100 U
Benzaldehyde	NA	23000 U
Benzo(a)anthracene	NA	9600 J
Benzo(a)pyrene	NA	9100 U
Benzo(b)fluoranthene	NA	9100 U
Benzo(g,h,i)perylene	NA	9100 U
Benzo(k)fluoranthene	NA	9100 U
bis(2-Chloroethoxy)methane	NA	9100 U
bis(2-Chloroethyl)ether	NA	9100 U
bis(2-Chloroisopropyl)ether	NA	9100 U
bis(2-Ethylhexyl)phthalate	NA	170000 J
Butyl benzyl phthalate	NA	9100 U
Caprolactam	NA	23000 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JC05012**

Sample Designation:	BCX-TS-05	T104-PR-01
Sample Collection Date:	3/4/2008	3/4/2008
Field Quality Control:	Trip Blank	
Semivolatile Organic Compounds (cont'd)		µg/kg, dry weight
Carbazole	NA	9100 U
Chrysene	NA	14000 J
Dibenzo(a,h)anthracene	NA	9100 U
Dibenzofuran	NA	9100 U
Diethylphthalate	NA	9100 U
Dimethyl phthalate	NA	9100 U
Di-n-butyl phthalate	NA	42000 J
Di-n-octylphthalate	NA	9100 U
Fluoranthene	NA	9100 U
Fluorene	NA	9100 U
Hexachlorobenzene	NA	9100 U
Hexachlorobutadiene	NA	9100 U
Hexachlorocyclopentadiene	NA	23000 U
Hexachloroethane	NA	9100 U
Indeno(1,2,3-c,d)pyrene	NA	9100 U
Isophorone	NA	9100 U
Naphthalene	NA	150000 J
Nitrobenzene	NA	9100 U
N-Nitrosodi-n-propylamine	NA	9100 U
N-Nitrosodiphenylamine/Diphenylamine	NA	9100 U
Pentachlorophenol	NA	23000 U
Phenanthrene	NA	9100 U
Phenol	NA	9100 U
Pyrene	NA	9100 U
Pesticides		µg/kg, dry weight
4,4'-DDD	NA	930 U
4,4'-DDE	NA	930 U
4,4'-DDT	NA	930 U
Aldrin	NA	930 U
alpha-BHC	NA	930 U
alpha-Chlordane	NA	930 U
beta-BHC	NA	260 J
delta-BHC	NA	930 U
Dieldrin	NA	930 U
Endosulfan I	NA	930 U
Endosulfan II	NA	930 U
Endosulfan sulfate	NA	930 U
Endrin	NA	930 U
Endrin aldehyde	NA	930 U
Endrin ketone	NA	930 U
gamma-BHC (Lindane)	NA	930 U
gamma-Chlordane	NA	1900 U
Heptachlor	NA	930 U
Heptachlor epoxide	NA	930 U
Methoxychlor	NA	3700 U
Toxaphene	NA	45000 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JC05012**

Sample Designation:	BCX-TS-05	T104-PR-01
Sample Collection Date:	3/4/2008	3/4/2008
Field Quality Control:	Trip Blank	
Polychlorinated Biphenyls		µg/kg, dry weight
Aroclor-1016	NA	920 U
Aroclor-1221	NA	920 U
Aroclor-1232	NA	920 U
Aroclor-1242	NA	920 U
Aroclor-1248	NA	920 U
Aroclor-1254	NA	920 U
Aroclor-1260	NA	920 U
Aroclor-1262	NA	920 U
Aroclor-1268	NA	920 U
Metals		mg/kg, dry weight
Aluminum	NA	9500
Antimony	NA	3.7 J
Arsenic	NA	6.9 U
Barium	NA	190
Beryllium	NA	0.40 U
Cadmium	NA	3.4
Calcium	NA	7300
Chromium	NA	50
Cobalt	NA	7.5 J
Copper	NA	710
Iron	NA	67000
Lead	NA	72
Magnesium	NA	2200 J
Manganese	NA	170
Mercury	NA	0.30
Nickel	NA	93
Potassium	NA	2300 J
Selenium	NA	6.9 U
Silver	NA	3.4 U
Sodium	NA	25000
Thallium	NA	11 J
Vanadium	NA	66
Zinc	NA	2400

Notes:

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

µg/kg = Micrograms per kilogram

µg/L = Micrograms per liter

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.

NA = The sample was not analyzed for this analyte.



July 21, 2008

Mr. Matthew Huyser
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street SW, 11th Floor
Atlanta, Georgia 30303

Subject: BCX Tank Site
Technical Direction Document Number TTEMI-05-003-0023
Contract No. EP-W-05-054 (START III Region 4)
Cursory Data Validation Report
Shealy Environmental Services, Inc., Report No. JF14008
Analytical Parameters: Volatile organic compounds (VOC), Semivolatile organic compounds (SVOC), and Metals

Laboratory Report No.	Samples	Field Duplicate Pairs	Field Quality Control Samples
JF14008	SCU-RS-01 and T107-RS-01	None	EB-RS-13 and Trip Blank

Dear Mr. Huyser:

The Tetra Tech Superfund Technical Assessment and Response Team (START) conducted data validation on the analytical results for two aqueous samples and two aqueous quality control (QC) samples (an equipment rinsate and a trip blank) that were collected at the BCX Tank Site in Jacksonville, Florida, on June 13, 2008. The samples were analyzed under laboratory report number JF14008 by Shealy Environmental Services, Inc. (Shealy), of West Columbia, South Carolina. The soil samples were analyzed for TCL VOC by SW-846 Method 8260B, TCL SVOCs by SW-846 Method 8270C, chlorinated pesticides by SW-846 Method 8081A, PCBs by SW-846 Method 8082, and metals by SW-846 Methods 6010B and 7470A.

Analytical data were evaluated in general accordance with all applicable data validation guidance documents, including the following: the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA October 1999) and the NFG for Inorganic Data Review (EPA October 2004). The analytical methods used by Shealy during this project provide guidance on procedures and method acceptance criteria that, in some areas, differ from the NFGs. Where the methods and the NFGs differ, the data validators followed the acceptance criteria in the methods. In addition, if laboratory-derived acceptance criteria were presented in the TestAmerica data package, then these criteria were used to evaluate the data, unless the criteria were considered inadequate.

Data were evaluated based on the following criteria:

- Data Completeness *
- Sample Preservation, Sample Receipt, and Holding Times *
- Laboratory Blanks *
- Surrogates *
- Laboratory Control Samples (LCS) and Laboratory Control Sample Duplicates (LCSD)
- Matrix Spike/Matrix Spike Duplicates (MS/MSD) *

Mr. M. Huyser
July 21, 2008

- Laboratory Duplicate Samples *
- Dilution and Reported Detection Limits *
- Analyte Quantitation

* All QC criteria were met for this evaluated parameter. Those criteria without an asterisk (*) displayed a deficiency that is described later in this report.

The following efficient and effective data validation approach was used for providing an abbreviated assessment of the quality of the set of data. Data evaluation consisted of a review of the data with a focus on the available review parameters present in the summary data package (which typically does not include the raw data). This review was not a complete assessment of all possible quality control parameters or even of each quality control parameter that was reviewed. The review, rather, was intended to efficiently identify and focus on those problems and quality control deficiencies that could be readily identified from the summary data package. Because of the nature of this approach, some problems and deficiencies may not have been identified; as such, this approach may not support some critical uses and required limits on decision-making uncertainty for the data.

Enclosure 1 presents copies of the sample results sheets from the laboratory data packages, with hand-entered qualifications from the data validation effort. Enclosure 2 presents the same data validation-qualified analytical results in table format.

DATA REVIEW RESULTS

The following sections discuss the data package and provide an overall assessment of the data. This discussion concentrates on the irregularities associated with the various parameters as indicated above.

LABORATORY CONTROL SAMPLES (LCS) and LABORATORY CONTROL SAMPLE DUPLICATES (LCS/LCSD)

LCS/LCSD analyses were performed for all analyses and were within QC limits with one exception. In the VOC analysis, LCS/LCSD recoveries for methyl acetate were both 147 percent, above the QC limits of 15 to 128 percent. Methyl acetate was not detected in any of the samples, so no qualifications were applied.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD)

MS/MSD analyses were performed for all analyses and were within QC limits with one exception. In the VOC analysis, MS/MSD results were not reported. No qualifications were warranted based on this data omission.

ANALYTE QUANTITATION

In all analyses, some results were below the calibration range (indicated as “PQL” on the laboratory results sheets) but above the sample detection limit (indicated as “MDL”). The laboratory qualified these extrapolations as estimated (flagged “J”).

OVERALL ASSESSMENT OF DATA

The overall quality of this data package was good. No results were qualified during data validation. All results may be used as reported for any purpose.

Mr. M. Huyser
July 21, 2008

Please call me at (678) 775-3104 if you have any questions regarding this data validation report.

Sincerely,



Jessica Vickers
START III Quality Assurance Manager

Enclosures (2)

cc: Katrina Jones, EPA Project Officer
Darryl Walker, EPA Alternate Project Officer
Angel Reed, Tetra Tech START III Document Control Coordinator

ENCLOSURE 1

**FIXED LABORATORY ANALYTICAL RESULTS SHEETS
WITH HAND-ENTERED DATA VALIDATION QUALIFIERS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. WORK ORDER NO. JF14008**

(15 Pages)

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-001
Description: EB-RS-13	Matrix: Aqueous
Date Sampled: 06/13/2008 1108	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/18/2008 1834	CMS		80675

Parameter	CAS	Analytical	Result	Q	PQL	MDL	Units	Run
	Number	Method						
Acetone	67-64-1	8260B	13	J	20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	4.0	J	5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	7.2	J	10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	8.8		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	1.1	J	5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	2.4	J	5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

(Signature)
 07/21/08

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-001
Description: EB-RS-13	Matrix: Aqueous
Date Sampled: 06/13/2008 1108	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/18/2008 1834	CMS		80675

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		107	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		112	70-130


 07/21/08

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-001
Description: EB-RS-13	Matrix: Aqueous
Date Sampled: 06/13/2008 1108	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/18/2008 2249	FLW	06/18/2008 1730	80631
1	3005A	6010B	1	06/19/2008 1959	MNM	06/16/2008 0955	80433

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	ND		0.20	0.044	mg/L	1
Antimony	7440-36-0	6010B	ND		0.010	0.0028	mg/L	1
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010B	0.019	J	0.025	0.0075	mg/L	1
Beryllium	7440-41-7	6010B	ND		0.0040	0.0012	mg/L	1
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Calcium	7440-70-2	6010B	68		5.0	1.0	mg/L	1
Chromium	7440-47-3	6010B	ND		0.0050	0.0021	mg/L	1
Cobalt	7440-48-4	6010B	ND		0.025	0.0062	mg/L	1
Copper	7440-50-8	6010B	0.0076		0.0050	0.0015	mg/L	1
Iron	7439-89-6	6010B	ND		0.10	0.022	mg/L	1
Lead	7439-92-1	6010B	0.0030	J	0.010	0.0019	mg/L	1
Magnesium	7439-95-4	6010B	27		5.0	1.2	mg/L	1
Manganese	7439-96-5	6010B	ND		0.015	0.0049	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Nickel	7440-02-0	6010B	ND		0.040	0.010	mg/L	1
Potassium	7440-09-7	6010B	2.1	J	5.0	1.1	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	0.00063	J	0.0050	0.00040	mg/L	1
Sodium	7440-23-5	6010B	13		5.0	1.2	mg/L	1
Thallium	7440-28-0	6010B	ND		0.050	0.0045	mg/L	1
Vanadium	7440-62-2	6010B	ND		0.050	0.013	mg/L	1
Zinc	7440-66-6	6010B	0.038		0.020	0.0045	mg/L	1

gaw
07/21/08

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-002
Description: SCU-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1135	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/18/2008 1856	CMS		80675

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	10	J	20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	3.0	J	5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	5.0		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	1.8	J	5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	1.2	J	5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

gaw
 07/21/08

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-002
Description: SCU-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1135	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/18/2008 1856	CMS		80675

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		110	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		115	70-130


 07/21/08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-002
Description: SCU-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1135	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	06/18/2008 1541	GLR	06/16/2008 1930	80494

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		5.0	1.2	ug/L	1
Acenaphthylene	208-96-8	8270C	ND		5.0	1.2	ug/L	1
Acetophenone	98-86-2	8270C	ND		5.0	0.90	ug/L	1
Anthracene	120-12-7	8270C	ND		5.0	1.1	ug/L	1
Atrazine	1912-24-9	8270C	ND		5.0	4.2	ug/L	1
Benzaldehyde	100-52-7	8270C	3.0	J	25	3.0	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.0	0.60	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.0	0.50	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.0	0.60	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.0	0.80	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.0	1.0	ug/L	1
1,1'-Biphenyl	92-52-4	8270C	ND		5.0	1.3	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.0	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	ND		10	3.3	ug/L	1
Caprolactam	105-60-2	8270C	ND		25	1.2	ug/L	1
Carbazole	86-74-8	8270C	ND		5.0	1.7	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.0	1.6	ug/L	1
4-Chloroaniline	106-47-8	8270C	ND		5.0	0.81	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.0	1.5	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.0	1.2	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.0	1.3	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.0	1.3	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.0	1.4	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.0	1.6	ug/L	1
Chrysene	218-01-9	8270C	ND		5.0	0.70	ug/L	1
Di-n-butyl phthalate	84-74-2	8270C	ND		5.0	1.7	ug/L	1
Di-n-octylphthalate	117-84-0	8270C	ND		5.0	1.7	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.0	1.3	ug/L	1
Dibenzofuran	132-64-9	8270C	ND		5.0	1.2	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		25	2.6	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.0	1.2	ug/L	1
Diethylphthalate	84-66-2	8270C	ND		5.0	1.9	ug/L	1
Dimethyl phthalate	131-11-3	8270C	ND		5.0	1.7	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.0	1.4	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		25	8.1	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		25	4.8	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	3.8	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	3.4	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	5.0		5.0	1.7	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.0	1.4	ug/L	1
Fluorene	86-73-7	8270C	ND		5.0	1.4	ug/L	1
Hexachlorobenzene	118-74-1	8270C	ND		5.0	1.2	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.0	1.4	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		25	4.0	ug/L	1

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

GLR
 07/21/08

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-002
Description: SCU-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1135	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	06/18/2008 1541	GLR	06/16/2008 1930	80494

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270C	ND		5.0	1.2	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.0	2.3	ug/L	1
Isophorone	78-59-1	8270C	ND		5.0	1.4	ug/L	1
2-Methylnaphthalene	91-57-6	8270C	ND		5.0	1.5	ug/L	1
2-Methylphenol	95-48-7	8270C	ND		5.0	1.1	ug/L	1
3 & 4-Methylphenol	106-44-5	8270C	ND		10	2.7	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.0	1.4	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		5.0	1.0	ug/L	1
Naphthalene	91-20-3	8270C	ND		5.0	1.3	ug/L	1
2-Nitroaniline	88-74-4	8270C	ND		10	2.1	ug/L	1
3-Nitroaniline	99-09-2	8270C	ND		10	3.0	ug/L	1
4-Nitroaniline	100-01-6	8270C	ND		10	4.2	ug/L	1
Nitrobenzene	98-95-3	8270C	ND		5.0	1.6	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	2.9	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		25	9.0	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		25	5.1	ug/L	1
Phenanthrene	85-01-8	8270C	1.8	J	5.0	1.2	ug/L	1
Phenol	108-95-2	8270C	7.1		5.0	1.2	ug/L	1
Pyrene	129-00-0	8270C	ND		5.0	3.1	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		5.0	1.2	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.0	1.3	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		89	41-144
2-Fluorobiphenyl		74	37-129
2-Fluorophenol		69	24-127
Nitrobenzene-d5		77	38-127
Phenol-d5		75	28-128
Terphenyl-d14		33	10-148

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PQL = Practical quantitation limit
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 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-002
Description: SCU-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1135	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/18/2008 2257	FLW	06/18/2008 1730	80631
1	3005A	6010B	1	06/19/2008 2006	MNM	06/16/2008 0955	80433

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	2.8		0.20	0.044	mg/L	1
Antimony	7440-36-0	6010B	0.0089	J	0.010	0.0028	mg/L	1
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010B	0.027		0.025	0.0075	mg/L	1
Beryllium	7440-41-7	6010B	ND		0.0040	0.0012	mg/L	1
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Calcium	7440-70-2	6010B	140		5.0	1.0	mg/L	1
Chromium	7440-47-3	6010B	0.0026	J	0.0050	0.0021	mg/L	1
Cobalt	7440-48-4	6010B	ND		0.025	0.0062	mg/L	1
Copper	7440-50-8	6010B	0.065		0.0050	0.0015	mg/L	1
Iron	7439-89-6	6010B	0.56		0.10	0.022	mg/L	1
Lead	7439-92-1	6010B	ND		0.010	0.0019	mg/L	1
Magnesium	7439-95-4	6010B	27		5.0	1.2	mg/L	1
Manganese	7439-96-5	6010B	0.0087	J	0.015	0.0049	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Nickel	7440-02-0	6010B	0.055		0.040	0.010	mg/L	1
Potassium	7440-09-7	6010B	9.7		5.0	1.1	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	0.0020	J	0.0050	0.00040	mg/L	1
Sodium	7440-23-5	6010B	140		5.0	1.2	mg/L	1
Thallium	7440-28-0	6010B	ND		0.050	0.0045	mg/L	1
Vanadium	7440-62-2	6010B	0.11		0.050	0.013	mg/L	1
Zinc	7440-66-6	6010B	0.21		0.020	0.0045	mg/L	1

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07/21/08

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J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range

P = The RPD between two GC columns exceeds 40%

N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-003
Description: T107-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1220	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch			
1	5030B	8260B	1	06/18/2008 1918	CMS		80675			
Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run		
Acetone	67-64-1	8260B	26		20	6.7	ug/L	1		
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1		
Bromodichloromethane	75-27-4	8260B	2.0	J	5.0	1.7	ug/L	1		
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1		
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1		
2-Butanone (MEK)	78-93-3	8260B	6.2	J	10	1.8	ug/L	1		
Carbon disulfide	75-15-0	8260B	3.5	J	5.0	0.30	ug/L	1		
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1		
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1		
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1		
Chloroform	67-66-3	8260B	3.0	J	5.0	1.7	ug/L	1		
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1		
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1		
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1		
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1		
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1		
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1		
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1		
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1		
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1		
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1		
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1		
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1		
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1		
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1		
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1		
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1		
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1		
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1		
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1		
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1		
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1		
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1		
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1		
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1		
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1		
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1		
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1		
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1		
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1		
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1		
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1		
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1		
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1		

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

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 07/21/08

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-003
Description: T107-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1220	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/18/2008 1918	CMS		80675

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		111	70-130
Bromofluorobenzene		111	70-130
Toluene-d8		115	70-130


 07/21/08

PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-003
Description: T107-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1220	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	06/18/2008 1638	GLR	06/16/2008 1930	80494

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acenaphthene	83-32-9	8270C	ND		5.2	1.2	ug/L	1
Acenaphthylene	208-96-8	8270C	ND		5.2	1.2	ug/L	1
Acetophenone	98-86-2	8270C	ND		5.2	0.94	ug/L	1
Anthracene	120-12-7	8270C	ND		5.2	1.1	ug/L	1
Atrazine	1912-24-9	8270C	ND		5.2	4.4	ug/L	1
Benzaldehyde	100-52-7	8270C	ND		26	3.1	ug/L	1
Benzo(a)anthracene	56-55-3	8270C	ND		5.2	0.62	ug/L	1
Benzo(a)pyrene	50-32-8	8270C	ND		5.2	0.52	ug/L	1
Benzo(b)fluoranthene	205-99-2	8270C	ND		5.2	0.62	ug/L	1
Benzo(g,h,i)perylene	191-24-2	8270C	ND		5.2	0.83	ug/L	1
Benzo(k)fluoranthene	207-08-9	8270C	ND		5.2	1.0	ug/L	1
1,1'-Biphenyl	92-52-4	8270C	ND		5.2	1.3	ug/L	1
4-Bromophenyl phenyl ether	101-55-3	8270C	ND		5.2	1.2	ug/L	1
Butyl benzyl phthalate	85-68-7	8270C	5.3	J	10	3.4	ug/L	1
Caprolactam	105-60-2	8270C	ND		26	1.3	ug/L	1
Carbazole	86-74-8	8270C	3.9	J	5.2	1.8	ug/L	1
4-Chloro-3-methyl phenol	59-50-7	8270C	ND		5.2	1.7	ug/L	1
4-Chloroaniline	106-47-8	8270C	ND		5.2	0.84	ug/L	1
bis(2-Chloroethoxy)methane	111-91-1	8270C	ND		5.2	1.6	ug/L	1
bis(2-Chloroethyl)ether	111-44-4	8270C	ND		5.2	1.2	ug/L	1
bis(2-Chloroisopropyl)ether	108-60-1	8270C	ND		5.2	1.4	ug/L	1
2-Chloronaphthalene	91-58-7	8270C	ND		5.2	1.4	ug/L	1
2-Chlorophenol	95-57-8	8270C	ND		5.2	1.4	ug/L	1
4-Chlorophenyl phenyl ether	7005-72-3	8270C	ND		5.2	1.7	ug/L	1
Chrysene	218-01-9	8270C	ND		5.2	0.73	ug/L	1
Di-n-butyl phthalate	84-74-2	8270C	ND		5.2	1.8	ug/L	1
Di-n-octylphthalate	117-84-0	8270C	ND		5.2	1.8	ug/L	1
Dibenzo(a,h)anthracene	53-70-3	8270C	ND		5.2	1.4	ug/L	1
Dibenzofuran	132-64-9	8270C	ND		5.2	1.2	ug/L	1
3,3'-Dichlorobenzidine	91-94-1	8270C	ND		26	2.7	ug/L	1
2,4-Dichlorophenol	120-83-2	8270C	ND		5.2	1.2	ug/L	1
Diethylphthalate	84-66-2	8270C	ND		5.2	2.0	ug/L	1
Dimethyl phthalate	131-11-3	8270C	ND		5.2	1.8	ug/L	1
2,4-Dimethylphenol	105-67-9	8270C	ND		5.2	1.4	ug/L	1
4,6-Dinitro-2-methylphenol	534-52-1	8270C	ND		26	8.4	ug/L	1
2,4-Dinitrophenol	51-28-5	8270C	ND		26	5.0	ug/L	1
2,4-Dinitrotoluene	121-14-2	8270C	ND		10	4.0	ug/L	1
2,6-Dinitrotoluene	606-20-2	8270C	ND		10	3.5	ug/L	1
bis(2-Ethylhexyl)phthalate	117-81-7	8270C	9.0		5.2	1.8	ug/L	1
Fluoranthene	206-44-0	8270C	ND		5.2	1.4	ug/L	1
Fluorene	86-73-7	8270C	ND		5.2	1.4	ug/L	1
Hexachlorobenzene	118-74-1	8270C	ND		5.2	1.2	ug/L	1
Hexachlorobutadiene	87-68-3	8270C	ND		5.2	1.4	ug/L	1
Hexachlorocyclopentadiene	77-47-4	8270C	ND		26	4.2	ug/L	1

PQL = Practical quantitation limit

B = Detected in the method blank

E = Quantitation of compound exceeded the calibration range

ND = Not detected at or above the MDL

J = Estimated result < PQL and ≥ MDL

P = The RPD between two GC columns exceeds 40%

Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

N = Recovery is out of criteria

GLR
07/21/08

Semivolatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-003
Description: T107-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1220	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	3520C	8270C	1	06/18/2008 1638	GLR	06/16/2008 1930	80494

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Hexachloroethane	67-72-1	8270C	ND		5.2	1.2	ug/L	1
Indeno(1,2,3-c,d)pyrene	193-39-5	8270C	ND		5.2	2.4	ug/L	1
Isophorone	78-59-1	8270C	ND		5.2	1.4	ug/L	1
2-Methylnaphthalene	91-57-6	8270C	ND		5.2	1.6	ug/L	1
2-Methylphenol	95-48-7	8270C	ND		5.2	1.1	ug/L	1
3 & 4-Methylphenol	106-44-5	8270C	6.8	J	10	2.8	ug/L	1
N-Nitrosodi-n-propylamine	621-64-7	8270C	ND		5.2	1.4	ug/L	1
N-Nitrosodiphenylamine (Diphenylamine)	86-30-6	8270C	ND		5.2	1.0	ug/L	1
Naphthalene	91-20-3	8270C	ND		5.2	1.4	ug/L	1
2-Nitroaniline	88-74-4	8270C	ND		10	2.2	ug/L	1
3-Nitroaniline	99-09-2	8270C	ND		10	3.1	ug/L	1
4-Nitroaniline	100-01-6	8270C	ND		10	4.4	ug/L	1
Nitrobenzene	98-95-3	8270C	ND		5.2	1.7	ug/L	1
2-Nitrophenol	88-75-5	8270C	ND		10	3.0	ug/L	1
4-Nitrophenol	100-02-7	8270C	ND		26	9.4	ug/L	1
Pentachlorophenol	87-86-5	8270C	ND		26	5.3	ug/L	1
Phenanthrene	85-01-8	8270C	2.3	J	5.2	1.2	ug/L	1
Phenol	108-95-2	8270C	8.7		5.2	1.2	ug/L	1
Pyrene	129-00-0	8270C	ND		5.2	3.2	ug/L	1
2,4,5-Trichlorophenol	95-95-4	8270C	ND		5.2	1.2	ug/L	1
2,4,6-Trichlorophenol	88-06-2	8270C	ND		5.2	1.4	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
2,4,6-Tribromophenol		86	41-144
2-Fluorobiphenyl		66	37-129
2-Fluorophenol		68	24-127
Nitrobenzene-d5		72	38-127
Phenol-d5		73	28-128
Terphenyl-d14		64	10-148

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PQL = Practical quantitation limit B = Detected in the method blank E = Quantitation of compound exceeded the calibration range
 ND = Not detected at or above the MDL J = Estimated result < PQL and ≥ MDL P = The RPD between two GC columns exceeds 40%
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W" N = Recovery is out of criteria

TAL Metals

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-003
Description: T107-RS-01	Matrix: Aqueous
Date Sampled: 06/13/2008 1220	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1		7470A	1	06/18/2008 2258	FLW	06/18/2008 1730	80631
1	3005A	6010B	1	06/19/2008 2033	MNM	06/16/2008 0955	80433

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Aluminum	7429-90-5	6010B	0.36		0.20	0.044	mg/L	1
Antimony	7440-36-0	6010B	ND		0.010	0.0028	mg/L	1
Arsenic	7440-38-2	6010B	ND		0.010	0.0040	mg/L	1
Barium	7440-39-3	6010B	0.019	J	0.025	0.0075	mg/L	1
Beryllium	7440-41-7	6010B	ND		0.0040	0.0012	mg/L	1
Cadmium	7440-43-9	6010B	ND		0.0020	0.00060	mg/L	1
Calcium	7440-70-2	6010B	92		5.0	1.0	mg/L	1
Chromium	7440-47-3	6010B	ND		0.0050	0.0021	mg/L	1
Cobalt	7440-48-4	6010B	ND		0.025	0.0062	mg/L	1
Copper	7440-50-8	6010B	0.016		0.0050	0.0015	mg/L	1
Iron	7439-89-6	6010B	25		0.10	0.022	mg/L	1
Lead	7439-92-1	6010B	0.0028	J	0.010	0.0019	mg/L	1
Magnesium	7439-95-4	6010B	26		5.0	1.2	mg/L	1
Manganese	7439-96-5	6010B	0.50		0.015	0.0049	mg/L	1
Mercury	7439-97-6	7470A	ND		0.00010	0.000053	mg/L	1
Nickel	7440-02-0	6010B	0.020	J	0.040	0.010	mg/L	1
Potassium	7440-09-7	6010B	7.0		5.0	1.1	mg/L	1
Selenium	7782-49-2	6010B	ND		0.010	0.0026	mg/L	1
Silver	7440-22-4	6010B	0.0031	J	0.0050	0.00040	mg/L	1
Sodium	7440-23-5	6010B	51		5.0	1.2	mg/L	1
Thallium	7440-28-0	6010B	ND		0.050	0.0045	mg/L	1
Vanadium	7440-62-2	6010B	0.035	J	0.050	0.013	mg/L	1
Zinc	7440-66-6	6010B	0.086		0.020	0.0045	mg/L	1

FLW
07/21/08

PQL = Practical quantitation limit	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range
ND = Not detected at or above the MDL	J = Estimated result < PQL and ≥ MDL	P = The RPD between two GC columns exceeds 40%
Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"		N = Recovery is out of criteria

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-004
Description: Trip Blank	Matrix: Aqueous
Date Sampled: 06/13/2008	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/18/2008 1939	CMS		80675

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Acetone	67-64-1	8260B	ND		20	6.7	ug/L	1
Benzene	71-43-2	8260B	ND		5.0	0.20	ug/L	1
Bromodichloromethane	75-27-4	8260B	ND		5.0	1.7	ug/L	1
Bromoform	75-25-2	8260B	ND		5.0	0.40	ug/L	1
Bromomethane (Methyl bromide)	74-83-9	8260B	ND		5.0	0.80	ug/L	1
2-Butanone (MEK)	78-93-3	8260B	ND		10	1.8	ug/L	1
Carbon disulfide	75-15-0	8260B	ND		5.0	0.30	ug/L	1
Carbon tetrachloride	56-23-5	8260B	ND		5.0	0.40	ug/L	1
Chlorobenzene	108-90-7	8260B	ND		5.0	1.7	ug/L	1
Chloroethane	75-00-3	8260B	ND		5.0	0.50	ug/L	1
Chloroform	67-66-3	8260B	ND		5.0	1.7	ug/L	1
Chloromethane (Methyl chloride)	74-87-3	8260B	ND		5.0	0.30	ug/L	1
Cyclohexane	110-82-7	8260B	ND		5.0	0.98	ug/L	1
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	8260B	ND		5.0	0.60	ug/L	1
Dibromochloromethane	124-48-1	8260B	ND		5.0	1.7	ug/L	1
1,2-Dibromoethane (EDB)	106-93-4	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichlorobenzene	95-50-1	8260B	ND		5.0	1.7	ug/L	1
1,3-Dichlorobenzene	541-73-1	8260B	ND		5.0	1.7	ug/L	1
1,4-Dichlorobenzene	106-46-7	8260B	ND		5.0	1.7	ug/L	1
Dichlorodifluoromethane	75-71-8	8260B	ND		5.0	0.20	ug/L	1
1,1-Dichloroethane	75-34-3	8260B	ND		5.0	0.30	ug/L	1
1,2-Dichloroethane	107-06-2	8260B	ND		5.0	0.30	ug/L	1
1,1-Dichloroethene	75-35-4	8260B	ND		5.0	0.50	ug/L	1
cis-1,2-Dichloroethene	156-59-2	8260B	ND		5.0	0.20	ug/L	1
trans-1,2-Dichloroethene	156-60-5	8260B	ND		5.0	0.40	ug/L	1
1,2-Dichloropropane	78-87-5	8260B	ND		5.0	0.30	ug/L	1
cis-1,3-Dichloropropene	10061-01-5	8260B	ND		5.0	0.30	ug/L	1
trans-1,3-Dichloropropene	10061-02-6	8260B	ND		5.0	0.30	ug/L	1
Ethylbenzene	100-41-4	8260B	ND		5.0	1.7	ug/L	1
2-Hexanone	591-78-6	8260B	ND		10	1.0	ug/L	1
Isopropylbenzene	98-82-8	8260B	ND		5.0	1.0	ug/L	1
Methyl acetate	79-20-9	8260B	ND		5.0	0.72	ug/L	1
Methyl tertiary butyl ether (MTBE)	1634-04-4	8260B	ND		5.0	0.40	ug/L	1
4-Methyl-2-pentanone	108-10-1	8260B	ND		10	0.80	ug/L	1
Methylcyclohexane	108-87-2	8260B	ND		5.0	0.95	ug/L	1
Methylene chloride	75-09-2	8260B	ND		5.0	1.7	ug/L	1
Styrene	100-42-5	8260B	ND		5.0	0.10	ug/L	1
1,1,2,2-Tetrachloroethane	79-34-5	8260B	ND		5.0	0.40	ug/L	1
Tetrachloroethene	127-18-4	8260B	ND		5.0	0.40	ug/L	1
Toluene	108-88-3	8260B	ND		5.0	1.7	ug/L	1
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	8260B	ND		5.0	0.30	ug/L	1
1,2,4-Trichlorobenzene	120-82-1	8260B	ND		5.0	1.7	ug/L	1
1,1,1-Trichloroethane	71-55-6	8260B	ND		5.0	0.20	ug/L	1
1,1,2-Trichloroethane	79-00-5	8260B	ND		5.0	0.30	ug/L	1

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

(Signature)
07/21/08

Volatile Organic Compounds by GC/MS

Client: Tetra Tech EM Inc.	Laboratory ID: JF14008-004
Description: Trip Blank	Matrix: Aqueous
Date Sampled: 06/13/2008	
Date Received: 06/14/2008	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	5030B	8260B	1	06/18/2008 1939	CMS		80675

Parameter	CAS Number	Analytical Method	Result	Q	PQL	MDL	Units	Run
Trichloroethene	79-01-6	8260B	ND		5.0	0.30	ug/L	1
Trichlorofluoromethane	75-69-4	8260B	ND		5.0	0.30	ug/L	1
Vinyl chloride	75-01-4	8260B	ND		2.0	0.10	ug/L	1
Xylenes (total)	1330-20-7	8260B	ND		5.0	1.7	ug/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
1,2-Dichloroethane-d4		109	70-130
Bromofluorobenzene		110	70-130
Toluene-d8		114	70-130


 07/21/08

PQL = Practical quantitation limit
 ND = Not detected at or above the MDL
 Where applicable, all soil sample analysis are reported on a dry weight basis unless flagged with a "W"

B = Detected in the method blank
 J = Estimated result < PQL and ≥ MDL

E = Quantitation of compound exceeded the calibration range
 P = The RPD between two GC columns exceeds 40%
 N = Recovery is out of criteria

ENCLOSURE 2

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. WORK ORDER NO. JF14008**

(4 Pages)

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JF14008**

Sample Designation:	EB-RS-13	SCU-RS-01	T107-RS-01	Trip Blank
Sample Collection Date:	6/13/2008	6/13/2008	6/13/2008	6/13/2008
Field Quality Control:				Trip Blank
Volatile Organic Compounds (µg/L)				
1,1,1-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2,2-Tetrachloroethane	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5.0 U	5.0 U	5.0 U	5.0 U
1,1,2-Trichloroethane	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U
1,1-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U
1,2,4-Trichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dibromoethane (EDB)	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloroethane	5.0 U	5.0 U	5.0 U	5.0 U
1,2-Dichloropropane	5.0 U	5.0 U	5.0 U	5.0 U
1,3-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U
1,4-Dichlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U
2-Butanone (MEK)	7.2 J	10 U	6.2 J	10 U
2-Hexanone	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone	10 U	10 U	10 U	10 U
Acetone	13 J	10 J	26	20 U
Benzene	5.0 U	5.0 U	5.0 U	5.0 U
Bromodichloromethane	4.0 J	3.0 J	2.0 J	5.0 U
Bromoform	5.0 U	5.0 U	5.0 U	5.0 U
Bromomethane (Methyl bromide)	5.0 U	5.0 U	5.0 U	5.0 U
Carbon disulfide	5.0 U	5.0 U	3.5 J	5.0 U
Carbon tetrachloride	5.0 U	5.0 U	5.0 U	5.0 U
Chlorobenzene	5.0 U	5.0 U	5.0 U	5.0 U
Chloroethane	5.0 U	5.0 U	5.0 U	5.0 U
Chloroform	8.8	5.0	3.0 J	5.0 U
Chloromethane (Methyl chloride)	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U
cis-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U
Cyclohexane	1.1 J	5.0 U	5.0 U	5.0 U
Dibromochloromethane	2.4 J	1.8 J	5.0 U	5.0 U
Dichlorodifluoromethane	5.0 U	5.0 U	5.0 U	5.0 U
Ethylbenzene	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	5.0 U	5.0 U	5.0 U	5.0 U
Methyl acetate	5.0 U	1.2 J	5.0 U	5.0 U
Methyl tertiary butyl ether (MTBE)	5.0 U	5.0 U	5.0 U	5.0 U
Methylcyclohexane	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	5.0 U	5.0 U	5.0 U	5.0 U
Styrene	5.0 U	5.0 U	5.0 U	5.0 U
Tetrachloroethene	5.0 U	5.0 U	5.0 U	5.0 U
Toluene	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,2-Dichloroethene	5.0 U	5.0 U	5.0 U	5.0 U
trans-1,3-Dichloropropene	5.0 U	5.0 U	5.0 U	5.0 U
Trichloroethene	5.0 U	5.0 U	5.0 U	5.0 U
Trichlorofluoromethane	5.0 U	5.0 U	5.0 U	5.0 U

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JF14008**

Sample Designation:	EB-RS-13	SCU-RS-01	T107-RS-01	Trip Blank
Sample Collection Date:	6/13/2008	6/13/2008	6/13/2008	6/13/2008
Field Quality Control:				Trip Blank
Volatile Organic Compounds (µg/L)				
Vinyl chloride	2.0 U	2.0 U	2.0 U	2.0 U
Xylenes (total)	5.0 U	5.0 U	5.0 U	5.0 U
Semivolatile Organic Compounds (µg/L)				
1,1'-Biphenyl	NA	5.0 U	5.2 U	NA
2,4,5-Trichlorophenol	NA	5.0 U	5.2 U	NA
2,4,6-Trichlorophenol	NA	5.0 U	5.2 U	NA
2,4-Dichlorophenol	NA	5.0 U	5.2 U	NA
2,4-Dimethylphenol	NA	5.0 U	5.2 U	NA
2,4-Dinitrophenol	NA	25 U	26 U	NA
2,4-Dinitrotoluene	NA	10 U	10 U	NA
2,6-Dinitrotoluene	NA	10 U	10 U	NA
2-Chloronaphthalene	NA	5.0 U	5.2 U	NA
2-Chlorophenol	NA	5.0 U	5.2 U	NA
2-Methylnaphthalene	NA	5.0 U	5.2 U	NA
2-Methylphenol	NA	5.0 U	5.2 U	NA
2-Nitroaniline	NA	10 U	10 U	NA
2-Nitrophenol	NA	10 U	10 U	NA
3 & 4-Methylphenol	NA	10 U	6.8 J	NA
3,3'-Dichlorobenzidine	NA	25 U	26 U	NA
3-Nitroaniline	NA	10 U	10 U	NA
4,6-Dinitro-2-methylphenol	NA	25 U	26 U	NA
4-Bromophenyl phenyl ether	NA	5.0 U	5.2 U	NA
4-Chloro-3-methyl phenol	NA	5.0 U	5.2 U	NA
4-Chloroaniline	NA	5.0 U	5.2 U	NA
4-Chlorophenyl phenyl ether	NA	5.0 U	5.2 U	NA
4-Nitroaniline	NA	10 U	10 U	NA
4-Nitrophenol	NA	25 U	26 U	NA
Acenaphthene	NA	5.0 U	5.2 U	NA
Acenaphthylene	NA	5.0 U	5.2 U	NA
Acetophenone	NA	5.0 U	5.2 U	NA
Anthracene	NA	5.0 U	5.2 U	NA
Atrazine	NA	5.0 U	5.2 U	NA
Benzaldehyde	NA	3.0 J	26 U	NA
Benzo(a)anthracene	NA	5.0 U	5.2 U	NA
Benzo(a)pyrene	NA	5.0 U	5.2 U	NA
Benzo(b)fluoranthene	NA	5.0 U	5.2 U	NA
Benzo(g,h,i)perylene	NA	5.0 U	5.2 U	NA
Benzo(k)fluoranthene	NA	5.0 U	5.2 U	NA
bis(2-Chloroethoxy)methane	NA	5.0 U	5.2 U	NA
bis(2-Chloroethyl)ether	NA	5.0 U	5.2 U	NA
bis(2-Chloroisopropyl)ether	NA	5.0 U	5.2 U	NA
bis(2-Ethylhexyl)phthalate	NA	5.0	9.0	NA
Butyl benzyl phthalate	NA	10 U	5.3 J	NA
Caprolactam	NA	25 U	26 U	NA
Carbazole	NA	5.0 U	3.9 J	NA
Chrysene	NA	5.0 U	5.2 U	NA

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JF14008**

Sample Designation:	EB-RS-13	SCU-RS-01	T107-RS-01	Trip Blank
Sample Collection Date:	6/13/2008	6/13/2008	6/13/2008	6/13/2008
Field Quality Control:				Trip Blank
Semivolatile Organic Compounds (µg/L)				
Dibenzo(a,h)anthracene	NA	5.0 U	5.2 U	NA
Dibenzofuran	NA	5.0 U	5.2 U	NA
Diethylphthalate	NA	5.0 U	5.2 U	NA
Dimethyl phthalate	NA	5.0 U	5.2 U	NA
Di-n-butyl phthalate	NA	5.0 U	5.2 U	NA
Di-n-octylphthalate	NA	5.0 U	5.2 U	NA
Fluoranthene	NA	5.0 U	5.2 U	NA
Fluorene	NA	5.0 U	5.2 U	NA
Hexachlorobenzene	NA	5.0 U	5.2 U	NA
Hexachlorobutadiene	NA	5.0 U	5.2 U	NA
Hexachlorocyclopentadiene	NA	25 U	26 U	NA
Hexachloroethane	NA	5.0 U	5.2 U	NA
Indeno(1,2,3-c,d)pyrene	NA	5.0 U	5.2 U	NA
Isophorone	NA	5.0 U	5.2 U	NA
Naphthalene	NA	5.0 U	5.2 U	NA
Nitrobenzene	NA	5.0 U	5.2 U	NA
N-Nitrosodi-n-propylamine	NA	5.0 U	5.2 U	NA
N-Nitrosodiphenylamine/Diphenylamine	NA	5.0 U	5.2 U	NA
Pentachlorophenol	NA	25 U	26 U	NA
Phenanthrene	NA	1.8 J	2.3 J	NA
Phenol	NA	7.1	8.7	NA
Pyrene	NA	5.0 U	5.2 U	NA
Metals (mg/L)				
Aluminum	0.20 U	2.8	0.36	NA
Antimony	0.010 U	0.0089 J	0.010 U	NA
Arsenic	0.010 U	0.010 U	0.010 U	NA
Barium	0.019 J	0.027	0.019 J	NA
Beryllium	0.0040 U	0.0040 U	0.0040 U	NA
Cadmium	0.0020 U	0.0020 U	0.0020 U	NA
Calcium	68	140	92	NA
Chromium	0.0050 U	0.0026 J	0.0050 U	NA
Cobalt	0.025 U	0.025 U	0.025 U	NA
Copper	0.0076	0.065	0.016	NA
Iron	0.10 U	0.56	25	NA
Lead	0.0030 J	0.010 U	0.0028 J	NA
Magnesium	27	27	26	NA
Manganese	0.015 U	0.0087 J	0.50	NA
Mercury	0.00010 U	0.00010 U	0.00010 U	NA
Nickel	0.040 U	0.055	0.020 J	NA
Potassium	2.1 J	9.7	7.0	NA
Selenium	0.010 U	0.010 U	0.010 U	NA
Silver	0.00063 J	0.0020 J	0.0031 J	NA
Sodium	13	140	51	NA
Thallium	0.050 U	0.050 U	0.050 U	NA

**DATA VALIDATION-QUALIFIED FIXED LABORATORY ANALYTICAL RESULTS
FOR SHEALY ENVIRONMENTAL SERVICES, INC. REPORT NO. JF14008**

Sample Designation:	EB-RS-13	SCU-RS-01	T107-RS-01	Trip Blank
Sample Collection Date:	6/13/2008	6/13/2008	6/13/2008	6/13/2008
Field Quality Control:				Trip Blank
Metals (mg/L)				
Vanadium	0.050 U	0.11	0.035 J	NA
Zinc	0.038	0.21	0.086	NA

Notes:

mg/L = Milligrams per liter

µg/L = Micrograms per liter

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

U = The analyte was analyzed for, but was not detected at or above the associated value.

UJ = The analyte was analyzed for, but was not detected at or above the associated value, which is considered approximate due to deficiencies in one or more quality control criteria.

NA = The sample was not analyzed for this analyte.

APPENDIX D
TETRA TECH DATA CHAIN-OF-CUSTODY FORMS
(Six Pages)



SHEALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number **88173**

Client: <u>Tetra Tech EM Inc</u>		Report to Contact: <u>Jessica Vickers</u>		Telephone No. / Fax No. / E-mail: <u>678-775-3104</u>		Quote No.	
Address: <u>1955 Evergreen Blvd 300</u>		Sampler's Signature: <u>[Signature]</u>		Waybill No.		Page <u> </u> of <u> </u>	
City: <u>Duluth</u> State: <u>GA</u> Zip Code: <u>30096</u>		X <u>[Signature]</u> Printed Name: <u>Kyle A. Russell</u>		Analysis (Attach Vial if more space is needed.)			
Project Name: <u>BCK TANK REMOVAL</u>		Project No.:		VOCs SVOCs Pest./PCBS TAL Metals		Lot No. <u>JB16010</u> Remarks / Chain ID	
Sample ID / Description: <u>X7017.0.001.0051</u>		PC No.					
(Containers for each sample may be combined on one line.)		Date		Time		No. of Containers by Parameter Type	
						Organics Metals PCBs Pesticides Inorganics Volatiles Trace Metals Radionuclides	
2/15/08		6		X			
BCK-FL-01 <u>02119/08</u>		2/15/08		6		X	
FB 01 / Field Vent		<u>2/15/08</u>		<u>1315</u>		<u>X</u> <u>4</u> <u>13</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u>	
RN-02 / Rinseate		<u>2/15/08</u>		<u>1315</u>		<u>X</u> <u>4</u> <u>13</u> <u>X</u> <u>X</u> <u>X</u> <u>X</u>	
BCK-EB-01							
[Signature] <u>02119/08</u>							
[Signature]							
<u>BCK-TS-02</u> <u>02119/08</u>		<u>2/15/08</u>		<u>1415</u>		<u>X</u> <u>2</u> <u>X</u>	

Possible Hazard Identification		Sample Disposal		Note: All samples are retained for six months from receipt unless other arrangements are made.			
<input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Corrosive		<input type="checkbox"/> Return to Client <input type="checkbox"/> Deposit by Lab					
Turn Around Time Required (Prior lab approval required for expedited TAT):		QC Requirements (Priority)					
<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush (Priority) <u>5 Day turn around</u>							
1. Relinquished by		Date		Time		1. Received by	
2. Relinquished by		Date		Time		2. Received by	
3. Relinquished by		Date		Time		3. Laboratory received by	
<u>FedEx</u>		<u>2/15/08</u>		<u>0950</u>		<u>[Signature]</u>	
Comments:		Received on ice (Circle) Yes No		Ice Pack <u>TB</u>		Receipt Temp: <u>5.7</u> °C	

DISTRIBUTION: WHITE & YELLOW Return to laboratory with Samples, PLUS FWD Copy

Document Number: H-AD-012 Effective Date: 08-04-02



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number **88174**

Client Tetra Tech EM Inc	Result to Contact Jessica Vickers	Telephone No. / Fax No. / E-mail 678 775 3104	Quote No.
Address 1955 Engstrom Blvd Ste 300	Sampler's Signature <i>[Signature]</i>	Worksheet No.	Page 1 of 1
City Duluth State GA Zip Code 30096	Printed Name Kyle A. Russell	Analysis (Attach list if more space is needed)	
Project Name BCX Tank Removal		Lab No. SB16010	

Project No. X9017.0-0010051	PO. No.	Date	Time	Matrix	No. of Containers by Preservative Type											VOCs	SVOCs	Pest. / PCB	TAL Metals	Remarks / Chain I.D.			
					Asph	Acid	Alk	None	U	P	CH	PC	PCB	SW	AW								
PR 1 T101-SP-04 / Solid Product		2/15/08	1430	G	X					4									X	X	X	X	total 4 samples
PR 1 T13-SP-02 / Solid Product		2/15/08	1415	G	X					4									X	X	X	X	total 4 samples

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Possible Hazard Identification <input type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input type="checkbox"/> Unknown	Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposed by Lab	QC Requirements (Specify)
Turn Around Time Required (Prior lab approval required for expedited TAT) <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush (Specify) 5 day turn around	1. Received by Kyle A. Russell <i>[Signature]</i> 2/15/08 1600	Date Time
2. Received by	Date Time	Date Time
3. Received by FedEx	02/16/08 450	02/16/08 0950
Comments	Received on ice (Circle) <input checked="" type="checkbox"/> Yes No Ice Pack TB	Reprint Temp 5-3

DEFINITION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field Blank Copy

Document Number: F-AU-012 Effective 1/01



SHEALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number **88707**

Client TETRA TECH			Report to Contact JESSICA VICKERS			Telephone No. / Fax No. / E-mail 678-775-3104			Quote No.			
Address 1903 EAST ADAMS STREET			Sampler's Signature X DIDI FUNG			Waybill No.			Page 1 of 1			
City JACKSONVILLE		State FL	Zip Code 32202		Printed Name Didi Fung			Analysis (Attach list if more space is needed.)				
Project Name BCX			<div style="display: flex; justify-content: space-around; font-size: small;"> VOIS.VOIPOST/PEBTAL METALS </div>									

Project No.	P.O. No.	Sample ID / Description (Containers for each sample may be combined on one line.)	Date	Time	G-Quad C-Composite	Matrix										No. of Containers by Preservative Type	Lab No. JB21009	Remarks / Container I.D.	
						Asph	PCB	PAH	PCDD/F	PCB	PCDF	PCMH	PCB	PCDF	PCMH				PCB
		T114/115-PR-01	2/20/08	1011	C												4	X X X X	see RC requirements
		BCX-TS-03	2/19/08	1400		X											2	X	TRIP BLANK

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

Sample Disposal: Return to Client Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.)
 Standard Rush (Specify) **5 DAY TAT FOR PRELIMINARY RESULTS**

QC Requirements (Specify): **MS/MED (T114/115-PR-01)**

1. Relinquished by Didi Fung	Date 2/20/08	Time 1700	1. Received by FED-EX	Date 2/20/08	Time 1700
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by Alan Fung	Date 2/21/08	Time 0930	3. Laboratory received by Alan Fung	Date 2/21/08	Time 0930

Comments: **see 2/21/08**

LAB USE ONLY
 Received on Ice (Circle) Yes No Ice Pack
 Receipt Temp: **4.1** °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy



SHEALY Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.
106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-8700 Fax No. (803) 791-9111

Number **88708**

Client: Tetra Tech			Report to Contact: JESSICA VICKERS			Telephone No. / Fax No. / Email: 678-775-3104			Quote No.			
Address: 1903 East Adams Street			Sampler's Signature: <i>[Signature]</i>			Waybill No.			Page 1 of 1			
City: Jacksonville		State: FL	Zip Code: 32202		X <i>[Signature]</i>			Analysis (Attach list if more space is needed)				
Project Name: BCX			Printed Name: DIDI FUNG			VOL SVOL REST / PCB TAL METALS			Lot No. JB22005			
Project No.: 103DX9017.0.001.0051.3002		P.O. No.		Sample ID / Description					No. of Containers by Preservative Type		Remarks / Cooler I.D.	
(Containers for each sample may be combined on one line.)		Date	Time	GC/MS G-Comps	Mixtur Alk/Hex	SVOL Non- Aqueous	SVOL Aqueous	REST PCB	PCB K	PCB M	PCB B	
T12-PR-01		2/21/08	1029	6		X	4					
T12-PR-01 DUP		2/21/08	1031	6		X	4					
BCX-TS-04		2/19/08	1400		X				2		TRIP BLANK	

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

Sample Disposal: Return to Client Disposal by Lab

Note: All samples are retained for six weeks from receipt unless other arrangements are made.

Turn Around Time Required (Prior lab approval required for expedited TAT.)				OC Requirements (Specify)			
<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush (Specify) 5 DAY TAT FOR PRELIMINARY RESULTS							
1. Relinquished by	Date	Time	1. Received by	Date	Time		
<i>[Signature]</i>	2/21/08	1600	FED-EX	2/21/08	1600		
2. Relinquished by	Date	Time	2. Received by	Date	Time		
3. Relinquished by	Date	Time	3. Laboratory received by	Date	Time		
FED-EX	2/22/08	0930	<i>[Signature]</i>	2/22/08	0930		

Comments: LAB USE ONLY

Received on ice (Circle) Yes No Ice Pack **TB** Receipt Temp. **5-3** °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

SHEALY ENVIRONMENTAL SERVICES, INC.



Chain of Custody Record

SHEALY ENVIRONMENTAL SERVICES, INC.

106 Vantage Point Drive
West Columbia, South Carolina 29172
Telephone No. (803) 791-9700 Fax No. (803) 791-9111

Number 88709

Client: Tetra Tech
Report to Contact: Jessica Vickers
Telephone No. / Fax No. / Email: 678-775-3104
Address: 1903 East Adams Street
City: Tacksonville FL Zip Code: 32202
Project Name: BCX
Sampler's Signature: [Signature]
Printed Name: Kyle Russell

Table with columns: Project No., Sample ID / Description, Date, Time, Matrix, No. of Containers by Preservative Type, and Remarks / Cooler I.D. Includes handwritten entries for T104-PR-01 and BCX-TS-05.

Possible Hazard Identification and Sample Disposal section with checkboxes for Non-Hazard, Flammable, Skin Irritant, Poison, Unknown, Return to Client, and Disposal by Lab.

Turn Around Time Required and QC Requirements section with checkboxes for Standard and Rush, and a field for QC Requirements.

Table with 4 columns: Relinquished by, Date, Time, Received by, Date, Time. Includes handwritten entries for Kyle Russell, Fed-Ex, and Laboratory received by.

Comments and LAB USE ONLY section with checkboxes for Received on ice and Ice Pack, and a field for Receipt Temp.

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy

Shealy Environmental Services, Inc.
106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.shealylab.com

SHEALY ENVIRONMENTAL SERVICES, INC.



TETRA TECH NUS, INC.

CHAIN OF CUSTODY

NUMBER 3336

JH14008

PAGE 1 OF 1

PROJECT NO: 103DX 9017-0001		FACILITY: BCX		PROJECT MANAGER DD Fung		PHONE NUMBER 678-775-3095		LABORATORY NAME AND CONTACT: Shealy Environmental Services, Inc.				
SAMPLERS (SIGNATURE) <i>Joe Gibson</i>				FIELD OPERATIONS LEADER Joe Gibson		PHONE NUMBER 904-636-6125		ADDRESS 106 Vantage Point Drive				
CARRIER/WAYBILL NUMBER FedEx 7989 6096 4770						CITY, STATE West Columbia, SC 29172						
STANDARD TAT <input checked="" type="checkbox"/>		RUSH TAT <input type="checkbox"/>		CONTAINER TYPE PLASTIC (P) or GLASS (G)		PRESERVATIVE USED		TYPE OF ANALYSIS SVOC G TAL Metals P VOCs HCL G				
<input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 72 hr. <input type="checkbox"/> 7 day <input type="checkbox"/> 14 day												
DATE YEAR	TIME	SAMPLE ID	LOCATION ID	TOP DEPTH (FT)	BOTTOM DEPTH (FT)	MATRIX (GW, SO, SW, SD, OC, ETC.)	COLLECTION METHOD GRAB (G) COMP (C)	No. OF CONTAINERS				COMMENTS
6/13	1108	EB-RS-13				w	G	6	X	X	X	Cool to 4°C
"	1135	SCU-RS-01				w	G	6	X	X	X	"
"	1220	T107-RS-01				w	G	6	X	X	X	"
"	0000	Top Blank				QC	G	3			X	"
1. RELINQUISHED BY		<i>Joe Gibson</i>		DATE	6/13/08	TIME	15:00	1. RECEIVED BY		DATE	TIME	
2. RELINQUISHED BY				DATE		TIME		2. RECEIVED BY		DATE	TIME	
3. RELINQUISHED BY		Fedex		DATE	6/14/08	TIME	1030	3. RECEIVED BY		DATE	TIME	
										6/14/08	1030	

DISTRIBUTION WHITE (ACCOMPANIES SAMPLE) *SAM 6/14/08* YELLOW (FIELD COPY) PINK (FILE COPY) *T= 2.3° TB* 4/02R FORM NO. TINUS 001

APPENDIX E
TABLE OF WITNESSES
(One Page)

TABLE OF WITNESSES
FINAL CERCLA REMOVAL ACTION REPORT
BCX TANK (REMOVAL)
JACKSONVILLE, DUVAL COUNTY, FLORIDA

Mr. Matthew Huyser
On-Scene Coordinator
U.S. Environmental Protection Agency
61 Forsyth Street, SW
11th Floor
Atlanta, GA 30303
Telephone No.: (404) 562-8934

Mr. G. Christopher Bodin
Florida Department of Environmental Protection
Northeast District
7825 Baymeadows Way, Suite B200
Jacksonville, FL 32256-7590
Telephone No.: (904) 807-3370

Mr. Yuen-Chang (Didi) Fung, Site Manager
Ms. Shanna Davis
Mr. Courtney Roden
Mr. Kyle Russell
Superfund Technical Assessment and Response Team
Tetra Tech EM Inc.
1955 Evergreen Blvd.
Building 200, Suite 300
Duluth, GA 30096
Telephone No.: (678) 775-3095

Dr. Jay Beech, P.E., Project Coordinator
Mr. Scott B. Elder, MBA
Mr. Doug Murphy
Mr. Stephen Shugart
Geosyntec Consultants
1255 Roberts Boulevard, NW
Suite 200
Kennesaw, GA 30144
Telephone No.: (678) 202-9500

Jay Nevin, Superintendent
Mark Bergman
Moran Environmental Recovery
251 Levy Road
Atlantic Beach, FL 32233
Telephone No.: (904) 241-2200



APPENDIX F
TETRA TECH WORK ORDERS
(12 Pages)

TETRA TECH EM INC.
REGION 4 START III WEEKLY WORK ORDER

TDD No.:	TTEMI-05-001-0051	SITE NAME:	BCX Tank
CONTRACT:	EP-W-05-054	WEEK OF:	Feb 9, 2008 - Feb 15, 2008
START SITE MGR.:	Didi Fung / Kyle Russell	LEAD OSC:	Matthew Huyser
START PM:	Brian Croft		

WORK ACCOMPLISHED

- Monday, MER (Moran Environmental Recovery) began demolition of pipes and inspecting tops of tanks. Pipes were cut around a pressure vessel inside the secondary containment area that caused product inside the vessel to seep out into the containment area. MER quickly capped the pipes and cleaned up the product. MER took the man lift up to the tops of tanks 102, 103, 104, 105, 106, and 107 to inspect inside and evaluated the material height. THA (Task Hazard Analysis) #008 for pumping to tank 107 was approved.
- Tuesday, MER continued to cut up hoses and then decontaminate using high pressure water and a degreaser before removal from the secondary containment area. Debris removal continues along with pressure washing around the inside of the containment area. A sample was extracted from tank 107 for WRI to analyze and determine if they could receive the liquid portion in the tank. THA #009 for accessing tanks for sampling and cleaning was approved. A pipe connected to tank 107 was drilled to collect a vapor reading. An elevated reading of H₂S and percent LEL was observed. The hole was plugged and Geosyntec and Tetra Tech went to monitor the pipe in its stabilized condition. No readings with the 4-Gas PID meter were recorded once the hole was plugged. The hole will be monitored again on Wednesday.
- Wednesday, rainfall from the night before filled most of the secondary containment back up. THA #010 was approved and reviewed before wall breaching activities began. MER continuously pumped throughout the day. MER also probed all the blue tanks with a drill in different areas to determine the product level before cutting an access way or opening an existing manhole. Tanks 10, 12, 13,14,15,16, and 100 were accessed, either through an existing manhole or a newly cut hole. Inside inspection revealed a black, viscous, product inside some tanks. The skid steer was used to take down small area of the southeast containment wall to ease access into the exclusion zone.
- Thursday, MER continued to pump rainwater from Tuesday night's rain event. MER crews evaluated tank 12 to see where to cut the new access hole. Scaffolding was set up to make an elevated work area for tank containing higher levels of material. MER completed the breach in the southeast containment wall. A small lip approximately 12 inches high by 10 feet long was left in place to maintain some secondary containment capacity. Steve Shugart of Geosyntec went up in the man lift to confirm the material level readings in tank 107. Tanks 10, 13, 14, 15, 16, 100 were also accessed to measure the amount of material left in each tank, whether the material can be composited for analysis, and to obtain a more accurate description of tank contents.
- Friday, Geosyntec sampled tanks 10, 13, 14, and 101. Tetra Tech collected split samples of tanks 13 and 101. Split samples were packed and sent to the laboratory for analysis. MER continued to clean inside the secondary containment and remove pipes and debris. Tetra Tech demobilized from the site.

PERSONNEL AUTHORIZED

EQUIPMENT AUTHORIZED

NAME	LABOR CATEGORY	CLASSIFICATION	HOURS	CATEGORY	DAYS
Kyle Russell	Clin 1003A	Junior Scientist	46		

TRAVEL, NON-CLIN ITEMS, & ODC'S AUTHORIZED

Lodging (02/09/08 - 02/15/08)	
Per Diem (02/09/08 - 02/15/08)	
Rental Car (02/09/08 - 02/15/08)	
Fuel (02/09/08 - 02/15/08)	

QUANTITIES / AMENDMENTS / COMMENTS

ACKNOWLEDGEMENTS

This week 25,200 gallons of containment water was transported to WRI.	UPON COMPLETION
	OSC SIGNATURE
	PM SIGNATURE

TETRA TECH EM INC.
REGION 4 START III WEEKLY WORK ORDER

TDD No.:	TTEMI-05-001-0051	SITE NAME:	BCX Tank
CONTRACT:	EP-W-05-054	WEEK OF:	Feb 16, 2008 - Feb 22, 2008
START SITE MGR.:	Didi Fung / Kyle Russell	LEAD OSC:	Matthew Huyser
START PM:	Brian Croft		

WORK ACCOMPLISHED

- START Fung mobilized to the site on 2/18/08. In the morning, a load of rain water extracted from the secondary containment area was transported to WRI. No other site activities were performed that day due to inclement weather. Shipments of containment decontamination water and/or rain water were received at WRI on 2/18/08 through 2/22/08.
- Roll-offs with scrap metal were sent to Berman Brother for recycling on 2/21/08.
- Roll-offs with site debris were sent to Waste Management's Chesser Island landfill Folkston, Georgia.
- Process piping continued to be disassembled and decontaminated by MER throughout periods of the week, using a cleaner/degreaser (Red Thunder, Gateway Chemicals, Inc.) and high pressure water.
- On 2/19/08, MER (Moran Environmental Recovery) finished cutting access holes in all the tanks side walls just above the material levels. These access holes were used for visual identification of the tank contents and sample collection.
- MER began manually removing the dry material inside tank 101 and staging it at the north end of the containment area. This material is planned to be used for solidification of wetter material encountered in other tanks.
- On 2/21/08, Geosyntec and Tetra Tech completed sampling of all the tanks in the containment area. Some tanks were sampled together with other tanks of like material. These included: tank 15/16, 102/105, and 114/115. Tetra Tech split samples collected from tank 12 and 114/115.
- Constance Cummings, an environmental specialist with petroleum cleanup activity, with the City of Jacksonville stopped by the site. She stated that she had a lot of historical knowledge of the site. Her contact number is (904) 630-1212.
- Doyle H. Smith, a marine chemist with Southern Marine Chemists, Inc. in Jacksonville performed a brief pre-inspection of the tanks in order to provide a hot work permit for certain tanks. MER's intent is to torch cut the tops off of as many tanks as possible to gain access to the tank contents. The official inspection and certification is expected to take place on 2/25/08. His contact number is (904) 721-7552.

PERSONNEL AUTHORIZED

EQUIPMENT AUTHORIZED

NAME	LABOR CATEGORY	CLASSIFICATION	HOURS	CATEGORY	DAYS
Kyle Russell	Clin 1003B	Junior Scientist	0		
Didi Fung	Clin 1002A	Senior Scientist	41.5		

TRAVEL, NON-CLIN ITEMS, & ODC'S AUTHORIZED

Lodging (02/18/08 - 02/22/08)	
Per Diem (02/18/08 - 02/22/08)	
Rental Car (02/18/08 - 02/22/08)	
Fuel (NA)	

QUANTITIES / AMENDMENTS / COMMENTS

ACKNOWLEDGEMENTS

This week 14,100 gallons of containment water was transported to WRI. This week 6,000 gallons of liquid from T107 and T103 was transported to WRI. This week 3.48 tons of scrap metal was transported to Berman Brothers, Inc. (Jacksonville, FL) This week 2.68 tons of debris was transported to Chesser Island Landfill (Folkston, GA)	UPON COMPLETION
	OSC SIGNATURE
	PM SIGNATURE

TETRA TECH EM INC.
REGION 4 START III WEEKLY WORK ORDER

TDD No.:	TTEMI-05-001-0051	SITE NAME:	BCX Tank
CONTRACT:	EP-W-05-054	WEEK OF:	Feb 23, 2008 - Feb 29, 2008
START SITE MGR.:	Didi Fung / Kyle Russell	LEAD OSC:	Matthew Huyser
START PM:	Brian Croft		

WORK ACCOMPLISHED

- On 2/25/08, MER started the process to torch cut the tops off of tanks to allow access to the material in each tank for disposal. This included issuing a hot work permit, crane operations, and torch cutting activities. All new contractors were briefed on the site history, site specific hazards and rules by Geosyntec, Steve Shugart. Doyle H. Smith, a marine chemist with Southern Marine Chemists, Inc. in Jacksonville was first on site to perform a full inspection of the tanks in order to provide a hot work permit for specified tanks. THA No.12 includes the detailed list of tanks that were inspected and approved for hot work. The crane operation team was also briefed on the site specific health and safety plan.
- Matt Huyser with the EPA and Scott Elder with Geosyntec were on site to observe the activities relating to the first tanks (tanks 108 and 109). Welders cloths were placed over the material in each tank and a water hose was used to reduce the amount of smoked produced from the torching operations. Tank 108 was not approved for hot work and was cut using the pneumatic nibbler. Tank 109 was approved for hot work and was cut using a torch.
- THA No.5 was modified to include regular visual inspection of the decontaminated process piping and scrap.
- On 2/26/08, tops from tank 108 and 109 were loaded on to a truck for transport to the Berman Brother, Inc. for recycling. Bad weather just after lunch shut the site down for the remainder of the day.
- On 2/27/08 the rain gauge showed only 0.4 inches of rain fell at the site. Rain water was quickly extracted from the secondary containment area and was transported to WRI.
- MER resumed the tank cutting operation moving on first to tank 101 then, 10, 16, and 14. Tanks 101, 10, and 16 were decontaminated then transported to Berman Brother, Inc. the same day. Tank 14 remained onsite until decontamination could be completed.
- START Fung demobilized from the site on 2/27/08 at the end of the day.

PERSONNEL AUTHORIZED

EQUIPMENT AUTHORIZED

NAME	LABOR CATEGORY	CLASSIFICATION	HOURS	CATEGORY	DAYS
Kyle Russell	Clin 1003B	Junior Scientist	1		
Didi Fung	Clin 1002A	Senior Scientist	31.5		
Didi Fung	Clin 1002B	Senior Scientist	8		

TRAVEL, NON-CLIN ITEMS, & ODC'S AUTHORIZED

Lodging (02/23/08 - 02/26/08)	
Per Diem (02/23/08 - 02/27/08)	
Rental Car (02/23/08 - 02/27/08)	
Fuel (02/23/08 - 02/27/08)	

QUANTITIES / AMENDMENTS / COMMENTS

ACKNOWLEDGEMENTS

Through mid 2/27/08, 15,350 gallons of containment water was transported to WRI. Through mid 2/27/08, scrap metal was transported to Berman Brothers, Inc. (Jacksonville, FL)	UPON COMPLETION
	OSC SIGNATURE  PM SIGNATURE

REGION 4 START III WEEKLY WORK ORDER

TETRA TECH EMI	TTEMI-05-001-0051	SITE NAME:	BCX Tank
CONTRACT	EP-W-05-054	W.E. DATE:	Mar 1, 2008 - Mar 7, 2008
START SITE MGR.	Didi Fung / Kyle Russell	LEAD OSC	Matthew Huyser
START PM	Brian Croft		

WORK ACCOMPLISHED

- On Monday March 3, 2008, START Kyle Russell arrived on site to assess Tuesday's tank sampling event and the progress of tank farm dismantling.
- On Tuesday March 4, 2008, Geosyntec collected samples of sludge/product from tanks 2, 104, 106, and 107. Tetra Tech collected a split sample from tank 104 for separate analysis at Shealy Environmental Services, Inc in West Columbia, South Carolina. In addition, 4.8 tons of scrap metal was transported off site. Paint filter testing that was originally scheduled had to be postponed due to severe storms that shut down the site for the day.
- On Wednesday March 5, 2008, START personnel demobilized from the site back to Huntsville, Alabama.

PERSONNEL AUTHORIZED				EQUIPMENT AUTHORIZED	
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NAME	LABOR CATEGORY	CLASSIFICATION	HOURS	CATEGORY	DAYS
Kyle Russell	Clin 1003A	Junior Scientist	24		

TRAVEL, NON-CLIN ITEMS, & ODC'S AUTHORIZED

Lodging (03/03/08 - 03/04/08)	
Per Diem (03/03/08 - 03/05/08)	
Rental Car (03/03/08 - 03/05/08)	
Fuel (03/03/08 - 03/05/08)	

QUANTITIES / AMENDMENTS / COMMENTS	ACKNOWLEDGEMENTS
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Tuesday (03/04/08) MER off loaded 4.8 tons of scrap metal containing metal stairs, walkway, and tanks	UPON COMPLETION
	OSC SIGNATURE  PM SIGNATURE

TETRA TECH EM INC.
REGION 4 START III WEEKLY WORK ORDER

TDD No.:	TTEMI-05-001-0051	SITE NAME:	BCX Tank
CONTRACT:	EP-W-05-054	WEEK OF:	Mar 15, 2008 - Mar 21, 2008
START SITE MGR.:	Didi Fung / Kyle Russell	LEAD OSC:	Matthew Huyser
START PM:	Brian Croft		

WORK ACCOMPLISHED

- On Wednesday 3/19/08, START personnel mobilized to the site. After hour observations showed no activities on occurred and no equipment from MER was observed. The site was securely maintained.
- On Thursday 3/19/08, START arrived at the site and noted that Doug Murphy with Geosyntec, was the only personnel on site. MER personnel and equipment demobilized on Tuesday 3/18/08. Doug Murphy stated that MER had left until analytical results could be reviewed to determine a disposal option for the three standing tank numbers 2, 106, and 107. Copies of the THA #13 and an updated THA #5 were made for the START records. Geosyntec collected additional sludge samples on the 3/17/08 from tank 2, 106, and 107. A copy of the COC was made for site records. A site walk showed a small amount of rainwater was collecting in the center of the secondary containment area. All tanks were still sealed and contained. The tank tops were on tight and no water was observed leaking into the material. Photos were taken of the site conditions. START came back to the site afterhours to observe any activities and take additional photos. No activities were occurred.
- On Friday 3/20/08, START came to site along with Doug Murphy of Geosyntec. MER was not onsite and no equipment had been brought back. START took photos again of site conditions and documented these conditions in the site log. START demobilized from the site.

PERSONNEL AUTHORIZED

EQUIPMENT AUTHORIZED

NAME	LABOR CATEGORY	CLASSIFICATION	HOURS	CATEGORY	DAYS
Kyle Russell	Clin 1003B	Junior Scientist	32		
Didi Fung	Clin 1002A				
Didi Fung	Clin 1002B				
TRAVEL, NON-CLIN ITEMS, & ODC'S AUTHORIZED					
Lodging (03/19/08 - 02/20/08)					
Per Diem (03/19/08 - 02/21/08)					
Rental Car (03/19/08 - 03/21/08)					
Fuel (03/19/08 - 03/21/08)					

QUANTITIES / AMENDMENTS / COMMENTS

ACKNOWLEDGEMENTS

	UPON COMPLETION
	OSC SIGNATURE
	PM SIGNATURE

TETRA TECH EM INC.
REGION 4 START III WEEKLY WORK ORDER

TDD No.:	TTEMI-05-001-0051	SITE NAME:	BCX Tank
CONTRACT:	EP-W-05-054	WEEK OF:	May 31, 2008 - Jun 6, 2008
START SITE MGR.:	Didi Fung	LEAD OSC:	Matthew Huyser
START PM:	Brian Croft		

WORK ACCOMPLISHED

- On Tuesday 06/03/08, START Fung mobilized to the site to perform project oversight and documentation of activities. The temperature at the site was over 90°F and sunny clear skies.
- MER performed the following tasks; washed the inside of Tank #106 and the containment area, vacuumed rain and rinse water from containment area, accepted delivery loads of bed ash from JEA, removed sludge product from Tank #107, and stabilized material from Tank #107.
- No new THA's have been drafted since START's last visit on 04/30/08 through 05/01/08.
- Joey with Geosyntec performed air monitoring, both perimeter and in the exclusion zone. This occurs a few times each day.
- START stood down wind of the site during sludge removal activities. Offsite odors diminish at approximately 30 feet from the containment wall. No further offsite odors have been reported at the site.

	Perimeter	Tank #02 (inside)	Tank #106 (inside)	Tank #107 (inside)	Tank #107 (just above product)
CO (ppm)	0	0	≤ 1.0	≤ 2.0	≤ 2.0
H ₂ S (ppm)	0	0	0	0	4
LEL (%)	0	0	0	0	0
O ₂ (%)	20.9	20.9	20.9	20.9	20.9
VOC (ppm)	0	0	≤ 1.3	≤ 0.2	≤ 0.9

- On Wednesday 06/04/08, START arrived. MER performed the following tasks; vacuumed rain and rinse water from containment area and loaded out stabilized material from Tank #107 for offsite disposal.
- The incident at BCX, on May 19, 2008 where waste material was spilled at an offsite location, was revisited. It appears to be a one time incident attributed to a faulty hydraulic latch. This truck has temporarily fixed this malfunction by reinforcing the tailgate with a tie-down strap. Joey with Geosyntec continues to inspect all loads before leaving site per Joey with Geosyntec.
- START obtained the disposal quantities to date from Geosyntec and demobilized from the site.

PERSONNEL AUTHORIZED

EQUIPMENT AUTHORIZED

NAME	LABOR CATEGORY	CLASSIFICATION	HOURS	CATEGORY	DAYS
Didi Fung	Clin 1002A	Senior Scientist	14		
Didi Fung	Clin 1002B	Senior Scientist	1.5		

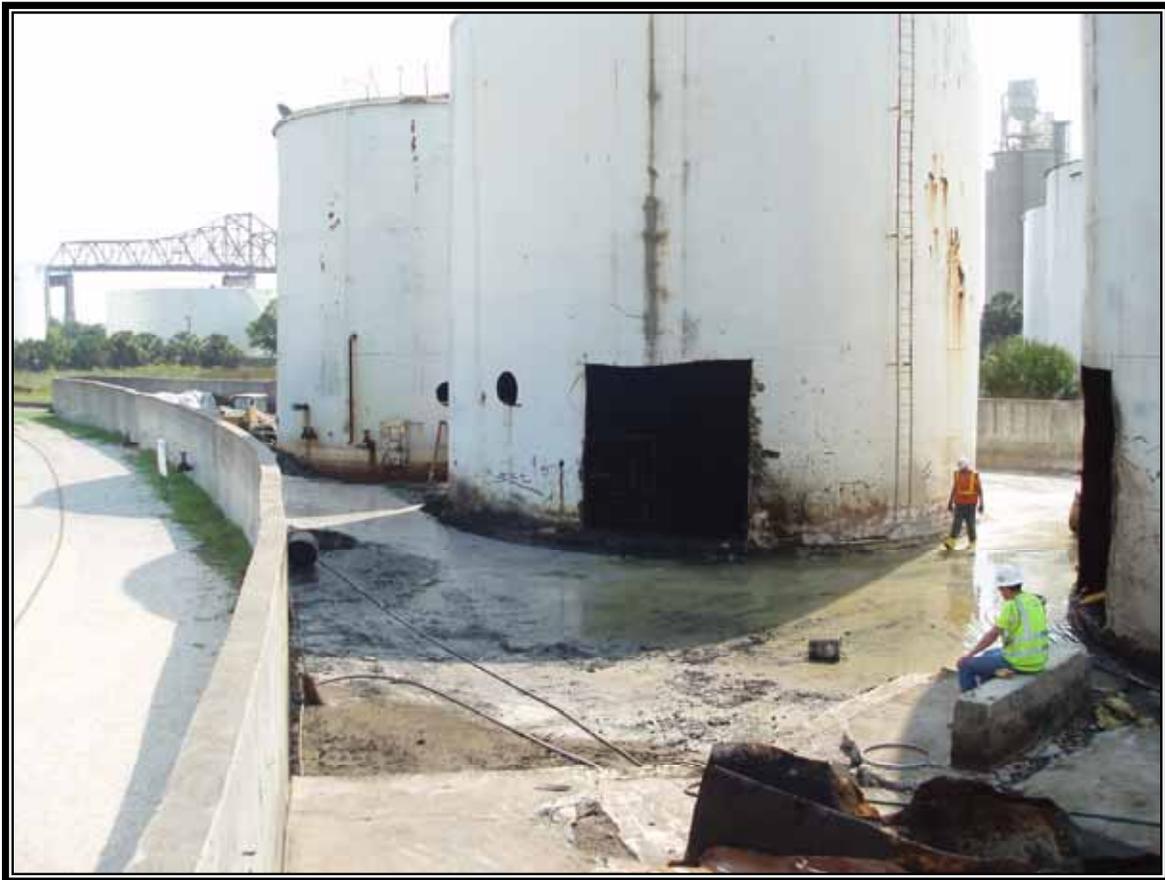
TRAVEL, NON-CLIN ITEMS, & ODC'S AUTHORIZED

Lodging (06/03/08)	
Per Diem (06/03/08 - 06/04/08)	
Rental Car (06/03/08 - 06/04/08)	
Fuel (06/04/08)	
Airfare (06/04/08)	

QUANTITIES / AMENDMENTS / COMMENTS

ACKNOWLEDGEMENTS

Disposal Location	Tranportation Dates	Total Quantities	Units	UPON COMPLETION
WRI (Waste Water)	02/06/08 - 05/19/08	125,076	Gallons	OSC SIGNATURE
Chesser Island Landfill (Non-Haz Debris)	02/22/08 - 04/22/08	4.7	Tons	
Berman Brothers (Scrap Metal)	02/21/08 - 05/21/08	92.56	Tons	
Broadhurst Landfill (Non-Haz Stabilized Material)	04/24/08 - 05/22/08	1324.3	Tons	
				PM SIGNATURE



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

TDD Number: TTEMI-05-001-0051

Location: BCX Tank Removal

Orientation: Northeast

Date: June 3, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Joey McKinnon, Geosyntec

Subject: Access door cut into the sides of tank #2 and #106 used to remove the sludge material that collected at bottom of the tanks.





**OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: BCX Tank Removal

Orientation: Southeast

Date: June 3, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Joey McKinnon, Geosyntec

Subject: MER mixing bed ash with sludge material from tank #107.





**OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: BCX Tank Removal

Orientation: Northeast

Date: June 3, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Joey McKinnon, Geosyntec

Subject: Stockpile of solidified material from tanks.





**OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: BCX Tank Removal

Orientation: West

Date: June 4, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Joey McKinnon, Geosyntec

Subject: Malfunctioning latch on trailer bed that spilled BCX material offsite during transport. Notice the extra bolt used as a spacer.





**OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY**

TDD Number: TTEMI-05-001-0051

Location: BCX Tank Removal

Orientation: Northwest

Date: June 4, 2008

Photographer: Didi Fung, Tetra Tech

Witness: Joey McKinnon, Geosyntec

Subject: A typical tractor trailer truck used to transport solidified material to the landfill. All truck beds are double lined with plastic.



APPENDIX G
LOGBOOK NOTES
(38 Sheets)

1/24/08

OVERCAST

THURSDAY

0730 START leaves Duluth, GA for BCX site.

1430 START Arrives at BCX in Jacksonville, FL

PRP Consultants - Geosyntec (Doug - ~~Site~~ Super)~~PRP Contractor~~ (- H&S Officer)PRP Contractor - Moran Environmental Recovery
(Jay - Field Super)

EPA OSC - Matt Huyser

START Tetra Tech - Didi Fung

1430-1500 START & Geosyntec perform a site walk.

The only activities ongoing are dewatering the secondary containment area. About 22" of rain water have accumulated. The water is being pumped into the stormwater drain w/ approval of the local water treatment facility at a rate of 30 gals/min. START reviewed the Geosyntec H&S plan and signed in to the site log.

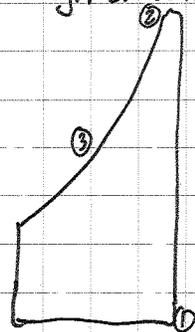
1500 START met w/ Matt Huyser to discuss the site. A lab will be procured w/ 6 day TAT. Weekly work orders will be submitted to Matt for approval. Tetra Tech will proactively review and oversee the specific task based analysis forms and notate in this site log any changes, comments, and concerns passed on to the PRP

Didi FungTUESDAY ~~1/24/08~~

1/24/08

reps. for mod

1500-1730 START, Geosyntec, EPA walked the site again looking at entering the SW corner of the secondary containment area (raised). Three measurements were collected to determine a rough amount of water to pump out.



① Wall height 82"

Water depth 14"

② Wall height 80"

Water depth 11 1/2"

③ Wall height 82"

Water depth 16"

1730 START left site for the day.

FRIDAY

1/25/08

0830 START on site. Signed H&S tailgate briefing. Crews continue to pump out water from the containment area. Backhoe is on site grading a level area in front of the south wall. to assist

1030 Geosyntec & Moran Environmental ~~are~~^{DF} continue to pull water from the second containment area. at 30 gal/min. Due to estimated 114,541 gal left to pump, START will dismantle for approximately one week until new activities begin. OSC approved.

Didi Fung

1/25/08 Friday
1030-1830 START left site for Duluth, GA and return rental vehicle.

1/29/08 START called Doug Murphy w/ Geosyntec to check on progress. The pumping continues at 30gal/min. The P20W is slow to appear and increase of flow rate. START will check back in a few days.

Douglas Murphy
Field Superintendent

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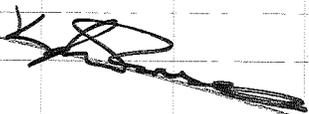
2/14/08

0530 - Didi Fong + Kyle Russell (START) tetra tech personnel arrive onsite. Pumping still continues at 30 gal/min. 2nd containment almost clear of water. Site activities should commence tomorrow. Moran submitted HASP for final approval.

1630	PIC #	Direction
	3128	N
	3129	W
	3130	S
	3131	E
	3132	NE
	3133	S
	3134	NE
	3135	S
	3136	E

1700 Water removal almost complete in secondary containment. Removal activities will begin tomorrow.

1930 START Leaves site



2/15/08

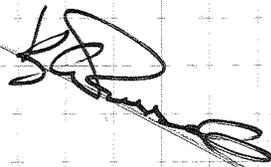
0800 START Arrives onsite. Daily tailgate meeting over heat related stress.

0900 Moran arrives onsite. T4 & Geosraker awaiting approval of Moran HASP & THA's before we begin work inside secondary containment.

1300 - Waiting for approvals & 40 ha costs on some of the Moran employees.

1600 - Tentative scheduling for the rest of the week follows: Weds Thurs Fri should encompass activities of Pressure washing, debris clean up, and Vacuum contaminated water from containment area. Sampling should begin next week.

1600 START Leaves site



2/6/08

0700 START Russell Arrives on-site

0730 Group has tailgate meeting over back injuries. Geosquec, Moran, & all involved.

0815 All certs accounted for. Moran is preparing to pressure wash inside.

0830 Moran begins pressure washing Secondary Containment. Andrew Williams, Robert Robson, Keith Harmon are the Moran Employees inside containment.

1020 Moran Continues to pressure wash debris & side walls of inner secondary containment.

Additions of 111, 112, 113 have been added to the un-numbered tanks. Sampling from 110 will take place from the soil that is in it. Rain water is in 111, 113. Moran will pump the Rainwater and if Sludge is present it will be sampled.

2/6/08

1540 - Moran continues to pressure wash around the containment area. Also spraying around the tanks.

Photo log

Pic #	orientation	
3137	N	Staging Area
3138	E	" "
3139	S	Pressure Wash debris
3140	S	" " Floor
3142	N	
3143	SW	
3144	SW	Pressure Wash
3145	W	out side stage Area
3146	S	Pressure Wash
3147	SW	
3148	N	Pipe leaking off 109
3149	S	
3150	N	
3151	E	
3152	E	
3153	E	Cleaning tank
3141	N	

1200 - START off site.

2/7/08

0800 START Personnel Russell on site

Daily toolbox was over hearing protection.

0810 Moran Environmental continued pressure washing and cleaning debris in containment area.

0850 Moran begins load debris into roll off bin by way of front end loader.

0945 Moran works on pressure washing under tanks 15, 13, 12

1040 Pressure washing is going well. Moran is moving through tanks and vacuuming out water.

1450 Kyle Taylor from Geo Syntec arrives on site to replace Doug Murphy for next week. Steve Shugart briefed Kyle on HTSP and history of site.

1500 Moran has pressure wash area under the blue tanks and bagged trash and cleaned debris.

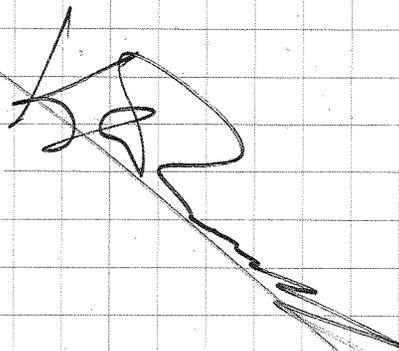
1638 Moran is squeezing area around largest tank in containment.

1700 START Personnel off site

Photo Log

2/7/08

Pic #	orientation	Description
3154	E	Loading cleaned debris
3155	S	"
3156	NE	"
3157	S	Area under Blue Tanks
3158	N/A	Cleaning "
3159	N/A	" "
3160	W	Cleaning pressure vessel
3161	N/A	
3162	N/A	
3163	W	Scraped area under Block Drain



02/08/08

0700 START personnel Russell outside
Daily tool box was overall importance
of Safety. Moran will continue
to segregate floor of containment area
around tanks, vacuum out area into
tank truck. Moran might used
Lift today to look around
tops of tanks to figure best
way to dismantle.

0800 MER vacuuming out spill containment
under tank truck. Rain from last
night has puddled in the containment

1000 JEA came on site to relieve power
to the 3 pole-mounted transformers
located in front of the blue tanks

1005 McKendree Plumbing is installing
a water line onsite so MER won't
have to fill from the fire hydrant
across the street

1200 Scott Elder from Geosyntec came
on site to observe activities

1400 An MER employee sampled a tank
covered in insulation for potential
Asbestos containing Materials

02/08/08

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Photo Log	orientation	Description
3167	N	vacuum Rainwater
3168	NW	JEAs cuts power
3169	NW	installing water access
3170	N	
3171	N	
3172	N/A	cleanup resumes
3173	N/A	
3174	N/A	3ft depth below circular Block
3175	N/A	
3176	SE	
3178	N	
3179	E	
3180	N/A	valve leak outside
3181	NW	checking top of tanks
1630		START off site. Work will resume on Monday

2/11/08

- 0800 START Arrives on site
Daily meeting was our first aid
and locations of hospital, first aid
kits.
- 0900 Moran ready's to enter back into
containment area to pressure wash
and clean. Pressure lines were
checked and opened to see if
tank 115 was under pressure. No
pressure was found. Moran is removing
pressure lines from concrete wall.
- 1000 Geosyntec calibrates 4 Gas meters
- 1050 contacted owner of train rail switch
to get the rail squared away before
moran moves lift out to west side
of containment area on train tracks. The
property owner contacted Steve Shugart
from Geosyntec and confirmed he was
talking to CSX to install a bump or
lock the switch off to prevent any
traffic from coming down the rail.
- 1130 lunch
- 1200 Back onsite
- 1200 Moran is continuing to pressure

2/11/08

- Wash piping areas. Another Moran team
is inspecting pipes and cutting
- 1300 Jay Beech VP of Geosyntec
arrives onsite to inspect how operations
we going.
- 1315 Moran removed 4 in pipe fitting that
released a petroleum sheen onto standing
water near tank 109. Tank 115 was
oozing black material from pipe that
Moran had opened. A reading of 34.6
ppm for VOCs. * 4 gas meter was not
calibrated * Only by factory standards *
- 1400 Moran re-assessed their THA's and
how they follow them. Tank 115 has been
capped and Moran cleaned up the
spills that were caused from not following
THA procedures. Moran used this
time to review their THA's and corrected
this situation.
- 1430 Jay from Moran went up to
inspect tanks 102, 103, 104, 105, 106,
and 107 for top integrity and tank
volume.
- 1500 START off-site

2/12/08

0900 START Arrives on-site.

0930 Moran had a brief meeting this morning. Safety meeting this morning is over THAs and how we follow them and make sure we go step by step.

0940 Moran continues to inspect tops of tanks. Moran continues to remove cut pipes from inside secondary containment area. Moran has been cutting hoses and pressure washing them before they are taken from the secondary containment area.

1050 Moran sampled from tank tank 107 from the man L.F.T. A large volume of water has been observed in most of the tanks. Moran will send the sample from 107 to WRI for preliminary study to see if they will take it. Moran continues to clean pipes and cut hoses.

1430 Moran has submitted THA for accessing tanks. Moran continues to pressure wash and clean hoses, pipes, and debris for

removal. Moran continues to probe and cut pipes for cleaning & removal.
1500 - went into containment to inspect tanks and piping on how to proceed to cleaning & flushing pipes attached to tanks.

1645 - Storms came in. Weather ended day for Moran.

1700 START off site

Photo Log from Monday 2/11/08

3182	gauge checked for pressure
3183	" "
3184	removing pipe from tank
3185	cleaner used on oil
3186	" "
3187	oil sheen from spill
3188	cut pipe leaking product
3189	" "
3190	checking tank level

8/13/08

- 0700 START Personnel arrives onsite
2 inches of rain were recorded from
over night storms.
Morning meeting covered PID 4-GAS
reading action limits for Gases, and
LEL Limits. Covered THA 009.
- 0730 Moran took a load of rainwater to
WRI. Approx. 2,200 G were taken
Rain from the night has filled the
secondary containment.
- 0740 Moran began drilling into blue tanks
100 and 14 to sample the air before
determining to cut an access hole for
sampling.
- 0800 Moran has now accessed 100, 14,
16, 13. Holes were drilled to assess
where product levels are in the
tanks. Moran continues to
pump rainwater out.
- 1030 13 & 100 hatches have been opened
13 was closed because solid product
was standing. All tanks have
been drilled to assess product levels.
- 1100 Moran working on accessing white

- tanks. Starting with 105.
- 1130 - Three trips have been taken to
WRI to off load 2,200 gallons
of rainwater.
- 1217 - WRI tanker comes onsite to pump out
remaining rainwater. Holding capacity
is 6,000 gallons
- 1240 Begin pumping rainwater out of
secondary containment. Will soon use
nibbler to open up tanks
- 1300 Geosyntec decar sampling spoons
and bowls with Alconox soap scrub,
regular water rinse, Iso rinse and D.I.
rinse.
- 1330 Moran Began secondary containment
wall breach with skid steer with jack
hammer attachment.
- 1335 Moran continues to pump out
rainwater
- 1340 Moran uses nibbler to cut open
tanks for access to sample. Tank
16 is open. 15 is being open
- 1345 Tank 15 is open
- 1350 - Moran continues to breach wall of

Secondary Containment 2/13/08

1400 - 6600 gallons of rainwater were taken off site to WRI.

Moran continues to cut access holes into Blue tanks for sampling purposes

The southern side of secondary containment wall is near Moran is breaching the wall

Photology

3207	Dir	Rainwater from previous night
08	N	"
09	W	"
10	N	"
11		"
12		Drilling to probe tanks before cutting
13		"
14		
15		
16		cutting tank with nibbler
17		hole cut in tank 16
18		busting concrete wall for breach
19		product inside tank
20		cutting into tanks for access

[Signature]

2/14/08

0700 START Arrives onsite

morning meeting over general house
keeping rules & tank demo.

0800 Moran starts pump truck to continue rainwater removal

0900 Moran offloaded 2200 g of rain water to WRI

0945 - 18 wheeler tanker arrives to offload rainwater.

0950 MER crew continues to cut and remove pipes around blue tanks.

Scaffolding is being set up for access to Tank 12. Tank 101 is being accessed

1000 - Tank 10 66" height - Yellowish brown, grey to reddish brown soil like material. So clay characteristics - unknown white material

Tank 14 - 42" height desiccation cracks reddish brown grey material. White material

Tank 16 - 32" Reddish grey-brown crust (6-8") Black Sludge material underneath

Tank 100 - 13" of Black oil product

2/14/08

TANK 13 - Foot of product powder Brownish
Black with red material. White
material observed

1048 TANK 15 - 44-48" of material looks
to be FeO_2 crust. Black sludge
material underneath.

1100 101 - Readings from MER 4 Gas O_2 20.9
CO read below 1-3

1230 START off site

1500 START Back on site

Steve Shugart in manlift assessing
tank levels

1520 Piping and scrap metal are being
removed

1540 cutting hole in tank 105 with nibbler

1600 cutting hole in tank 103 with nibbler

1700 START off site

2/15/08

0900 START on site

Safety meeting over CO exposure
ready sample equipment and chain of cos
Tanks 101, 102, 103, 105 were opened
yesterday

0900 scaffolding is set up at tank 2
and 12

0955 Pressure wash around bloe tanks
and all our secondary containment
scaffolding set at 106

Finished checking tank levels

1300 take Field Blank and Rinse

1315 took Rinse & Field Blank

1415 took split sample from tank
13 - T13-SP-05

1430 took split sample from tank

101 - T101-SP-03 Tank 101 VOC = 134 ppm

1630 Samples and COC complete

1700 START off site

2/18/08

MONDAY

0700-1230 START Fung mobilized to the site via air travel & rental. No site work due to inclement weather.

2/19/08

TUESDAY

0800 START Fung on-site. Met w/ Steve Shupart and Doug Murphy to perform a morning site walk. $\frac{1}{10}$ of an inch rain was measured in the site rain gauge. Field crews are cutting process lines and staging them in roll offs for disposal. Other crews are using a hole saw & metal cutter (nibbler) to access the side walls of tanks.

0930 START and Geosyntec looked at tanks to see if possible like materials could be composited for sampling. Tanks 15 & 16 seem to be similar and Tanks 114 & 115 seem to be similar. Tank 112 appears to be totally empty.

1030 Constance Cummings with the City of Jacksonville stopped by the site to see what was going on. She did not ~~was~~ was not notified that work was being done at the site. She did not seem upset but, let Doug know she had good historical knowledge of the site. Her phone # is (904) 630-1212 ext. 3613.

D. F.

TUESDAY

2/19/08

1130-1700 START picked up sampling equipment for tomorrow's tank sampling activities. In addition, material levels were collected from tanks cut open today.

Moran completed cutting open all the remaining tanks. They also continue disassembling process lines running between the tanks.

1700 The site shut down for the day. Rain water that collected in the secondary contained on Monday (2/18/08) was pumped out into the vac truck and transported to WRI. 1,950 gallons were transported.

Wednesday

2/20/08

0830 START on site. Doyle Smith, a marine chemist is on site to inspect the tanks to clear them of hazards for a possible hot work permit. The THA is still being drafted.

0900 Steve w/ Geosyntec is collecting sample EB-AA-02 (equipment rinse sample)

NOTE: yesterday Sgas reading collected by Steve in T15 were LEL = 0%, O₂ = 20.9%, CO = 0 ppm, H₂S = 0 ppm
VOC = 0 ppm

D. F.

2/20/08

WEDNESDAY

0930 - Geosyntec sampled T15 & T16. The grab samples were combined into one sample
TK 1516-SD-01.

1000 - Geosyntec sampled T114 & T115 (horizontal pressure vessels). The grab samples from each vessel were combined into one sample.
TD 114/115-SD-01. Tetra Tech START collected a split of this sample T114/115-PR-01.
Time 1011.

1030 - Geosyntec sampled T109-SD-01 (errors ~~grab~~)

1100 - Geosyntec sampled T108-SD-01 (only thick liquid was mixed w/ heavy sludge). Moran is conducting ~~the following~~ tasks. 1) cold cutting process lines, 2) decanning process lines, and 3) manually removing material left in T101. In addition, rinse water is being collected and transported to WRT.

1200-1300 START ~~with~~ ~~PP~~ packed up lab shipments of supplies and continued processing sample T114/115-PR-01 for shipment to Stealy Labs.

1330 to 1430 START Fung and Steve Shigant w/ Geosyntec inspected T12, T17, T102, T105 for material material levels. These Tanks will be sampled tomorrow.

Dee Fung

WEDNESDAY

2/20/08

1430-1630 START updated for ~~ten~~ ~~CD~~ tracking forms for WRT disposal, scans collected by Geosyntec, Archadis (historical), and Tetra Tech (historical & present) to ensure all tanks are characterized and all layers are defined.

1630-1730 - START Fung Assisted Geosyntec trouble shoot Multivac calibration, LEL sensor error. Reset cal gas span concentration for CO and H₂S. After START & Geosyntec left site ~~for the day~~ Moran left at 1700. [1950 gallons to WRT] ~~CD~~

THURSDAY

2/21/08

0815 START arrives on site. Moran crews continue to remove material (solids) from T101 and cold cutting process pipes.

0830 Geosyntec stated that a sample container was not turned in equipment rinse sample (EQ AQ-02) collected on 2/20/08. The lab will use ^{extra} liquid from another jar and preserve with Nitric for analysis.

0855 Geosyntec is preping sample containers for T12, T17, T102/T105 (combined), and T110. These will be collected today.

Dee Fung

2/21/08

THURSDAY

1015 START borrowed Mowans 4-gas meter (~~②~~) (Honeywell) to use during tank sampling.

The bump test is recorded below.

LEL	O ₂	H ₂ S	CO	
50%	20.9%	25ppm	50ppm	CAL GAS
52% ✓	20.8% ✓	35ppm ④	55ppm ✓	Bump Test
(High)				

The following table show the air monitoring readings collected before each tank was sampled. [1ft above material level in each tank] ②

TIME	TANK #	LEL	O ₂	H ₂ S	CO
1029	T12	0%	21.2%	0ppm	0-1ppm
1122	T105	0%	21.4%	0ppm	0-1ppm
1124	T102	0%	21.4%	0ppm	0-1ppm
1142	T110	0%	21.4%	0ppm	0-1ppm
1220	T17	0%	21.4%	0ppm	1ppm

1029 Geosyntec Steve S. & START Fung collected sample T12-PR-01 & T12-PR-01 DUP.

~~1122 Geosyntec Steve S. collected ②~~ This material was very thick, black in color w/ oil.

1122 Geosyntec Steve S. collected a waste sample from T105 then T102. These two tanks were combine for one analysis. Visually like

————— Dohi Fung —————

THURSDAY

2/21/08

materials. This material was solid black w/ some dark brown.

1142 Geosyntec Steve S. collected a waste sample from T110 (w/ tree gum in it).

The material appeared to have soil and absorbent material in it.

1220 Steve S. w/ Geosyntec collected waste sample from T17. ~~STE ②~~ solid sludge w/ some sandy grit. Also dark in color.

1314 WRI Tanker truck is on site collecting the colored liquid (~2') inside T107. ~~②~~ ~~②~~ ~~②~~ T105 ②

Photo Log

TIME DESCRIPTION

0833 Cut outs for tanks 108 & 109. Secondary [P2210082] contain wall was removed for access from the south. (NNE)

0837 Cold cutting process lines attached to T107 [P2210084] (NE)

0838 Empty tank 112 and 1 of three monitoring [P2210085] well casings located inside the secondary containment area. (N) ②

0840 Black solid sludge inside tank 105 (SE) [P2210087] 1029 Sampling T12 (Geosyntec) through side [P2210088] cut at using manlift (N)

————— Dohi Fung —————

TIME	DESCRIPTION	Thursday
2/21/08	Photo log	
1029	Same as before, just close up.	
[P2210089]		
1037	Black oily material collected from T12.	
[P2210090]		
1040	Skid steer moving cut process lines. (NNE)	
[P2210091]		
1124	Black & brown material collected from T105	
[P2210092]	& 102	
1137	Plastic wraps the ends of process piping cut free to contain the ^{any} residual material still left inside.	
[P2210093]		
1137	Same as above (S)	
[P2210094]		
1142	Tank 110 w/ tree growing inside. (E)	
[P2210095]		
1349	Transfer of liquids inside T107 to tanker [P2210096 & 97] from WRI. (NE)	
1514	Cross section of tank material in T101. (S)	
[P2210098]		
1514	Empty cut open (original condition) T111. (S)	
[P2210099]		
1530	On an off showers began.	
1700	START Fung left site for the day.	

Didi Fung

TIME	DESCRIPTION	Friday
0800	START Fung on site. Overcast again	2/22/08
0920	9/10" fell yesterday on site. Moran is pumping water (rain) out of the containment area using the vac truck. Other crews are disassembling process lines. Vac truck liquid is transported to WRI down the street.	
1044	1 roll off of ^{site debris} scrap steel is being transported for ^{waste management} scrap recycling ^{at landfill!} (Chesser Island Rd.)	
1340	Moran crews are manually digging out material from T101 into a skid steer. The skid steer is moved to the stake pile area at the north end of the containment area. This material is planned to be used to solidify wetter material in other tanks. Vac truck pumping continues as well.	
1600	Moran began pumping the free liquid in T104 into the empty T112. Initial analytical could not determine the waste to be 100% non-haz according to WRI. Low MOL's will be necessary from the lab. Reanalysis is possible. Greg Reynolds w/ WRI stated the liquids ^{could} be chlorinated organics. The total halogen is > 1000 ppm.	
1700	START Fung left site.	

Didi Fung

SATURDAY - SUNDAY

No site work.

2/23-24/08

2/25/08

MONDAY

0800 START Fung on site. Doyle Smith is on site, as well as Scott Elder (Geosyntec Construction Coordinator).

0807 Moran workers are pumping rain water that fell over the weekend and dressing out in PPE.

0830 - 1000 Geosyntec, Tetra Tech, EPA, ^{MATT} Maysen, Poyle Smith (Marine Chemist) are on site to perform evaluation of hot work certification or not. The crane is on site and waiting and ~~is~~ on green lights. Below is the tank list that will be certified w/ comments.

Tank #	Hot Work Approved	Hot work Not Approved	Comments
02		✓	
10	✓		
12	✓		use welder cloth w/ water spray
13	✓		
14	✓		use welder cloth w/ water spray.
15	✓		
16	✓		
17	✓		push soil to border on area, may use welder cloth.
100	✓		empty

Continued.

Tank #	Hot Work Approved	Hot work Not Approved	Comments
101	✓		
102		✓	
103	✓		
104		✓	
105	✓		
106		✓	use welding blanket, water spray
107	✓		
108		✓	
109	✓		
110	✓		
111	✓		
112		✓	
114		✓	
115		✓	

1300 Moran, Tetra Tech, EPA, Geosyntec has a task specific H&S briefing regarding the crane & tank cutting operation. They will begin with T109. A THA was reviewed for tank demo & cleaning (THA No. 012) as well a cert issued for hot work and T109. 1508 T109 was successful w/ torch and

————— D.J. F. —————

2/25/08

Monday

placed on its side. The crew is now moving to T108. Because of its oil content w/ sludge, a hot work permit was not approved. The nibbler will cut the tank in this instance.

T1A No. 5 was modified to include ^{regular} visual inspection of the damaged piping.

1550 T108 has been cut w/ the nibbler and keyed down on its side.

1630 The crew pressure washed the inside of T108 to ready for loadout to the scrap yard tomorrow.

TIME	DESCRIPTION
1333 [P2250001]	On 2/22/08 - new stock pile ^{over} material from T101 located at the north end of the containment area.
1253 [P2250003]	Welders blanket placed over material to protect ^{to} reduce the amount of smoke that maybe generated during torching operations. (NNE)
1254 [P2250004]	Welder blanket inside T109 (NNE)
1338 [P2250009]	Connecting the lift lines to the top of T109 before torching begins (NNE).
1345 [P2250010]	Torching T109 (NNE)

Dale F

Monday

2/25/08

TIME	DESCRIPTION
1414 [P2250011]	Tank top from T109 freed from its bottom portion w/ material (NNE). Tag line can be seen as well.
1430 [P2250012]	Tank top from T109 set on its side. Notice the lack of rigidity in the tank. (N).
1611 [P2250013]	Bottom portion of T108 (part ^{view}) & T109 (foreground) w remaining material. (N)
1612 [P2250014]	Zoom of bottom portion of T108. (N).

Tuesday

2/26/08

0800 START on site. Moran crew finishes cleaning out T101's material. Also new crane is on site to load tanks on flat bed and continue disassembly tanks.

0918 T108 was placed on flat bed for transport to scrap yard.

0940 Flatbed truck left site w/ T108.

1317 Moran crews are covering north stockpile and T108 & T109 bottoms w/ plastic in prep for the imminent inclement weather. Also the crane repositioned to help disassemble

Dale F

2/26/08

TUESDAY

T101. It will be torched in half then lifted for ~~DP~~ out for disposal. At 1200, Moran, Geosyntec & Tota Tech inspected the inside of T101 for sufficient decon and ok'd the tank for removal.

1327 Rain begins to fall.

1342 Rain on and off. Thunder was heard.

1400 Moran is shutting down operations due to lightning in the area.

TIME	DESCRIPTION
0912 [P2260001]	Tank 108 craned into position on flat bed (N)
0912 [P2260002]	Tank 108, rodine tag line used to control rotation and position onto flat bed. (N)
0912 [P2260003]	TANK 108, same as above (N)
1003 [P2260004]	Integrity supports welded in place to support Tank 109 for transport. (N)
1241 [P2260005]	Domed support and plastic used to shed rain water from the tank contents. (N)
1252 [P2260006]	Inside tank 101 after decontamination during inspection. (S)
1400	START left site for the day.

Deli Fung

2/27/08

WEDNESDAY

- 0900 START on site. Moran has cut tank 101 in half and is loading it onto the flat bed.
- 1030 Moran finish pump rain water that fell yesterday 4/10". They also complete cutting (torching) Tank 10. It was inspected and no decon is necessary. Inspected by Geosyntec, & Tota Tech. Tota Tech & Geosyntec discuss the possibility of sampling the tanks that had a layer of liquid covering the sludge layer below. The sludge layer needing sampling include tank 2, 103, 104, 106, 107.
- 1252 Top of tank 10 leaves the site for the scrap yard.
- 1400 Moran is torching tank 16 and the other crews are getting ready to decon in inside.
- 1415 Inside tank 16, there is not wet contamination. Crews perform a dry decon w/ shovels. The aluminum top will be reused on site to cover tank bottoms.
- 1458 Tank 16 leaves the site for recycling.
- 1555 Tank 14 is torched and placed on decon area.
- 1650 START Fung leaves site for Airport.

Deli Fung

2/27/08

WEDNESDAY

TIME	DESCRIPTION
1103 [P2270002]	Tank cradle were T 101 previously sat is used to stage tanks for decon. (S)
1111 [P2270004]	Torching tank 10. (S)
1111 [P2270007]	Torching tank 10 (S)
1120 [P2270010]	Lifting tank 10 on to the decon staging area. (S)
1131 [P2270011]	Tank 10 bottom w/ material.
1305 [P2270012]	Containment area on east side (N)
1306 [P2270013]	Containment area on south side (W)
1307 [P2270014]	Containment area on west side (S)
1307 [P2270015]	Containment area on west side (N)
1311 [P2270016]	Process line coming from T 17 goes into concrete (E)
1312 [P2270017]	Taking down process line to be ^{DO} loosely connect to T 02. (S)
1318 [P2270018]	Containment area northend (S)

Did: Fong

WEDNESDAY

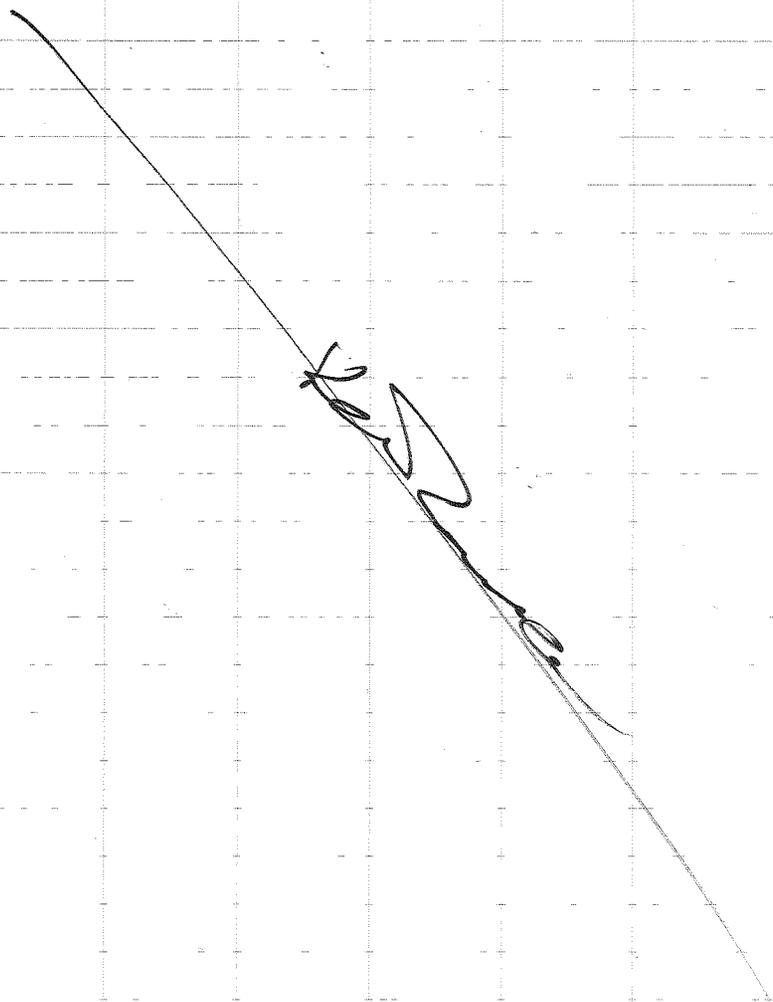
2/27/08

TIME	DESCRIPTION
1412 [P2270019]	Degraded interior of tank 16. Notice the aluminum roof covering the existing one. (S)
1412 [P2270020]	Dry decon inside tank 16. (S)
1420 [P2270021] [P2270021]	Tank 16 bottom w/ material & piping. (E)

Monday March 3

1430 START arrive onsite to
be briefed on recent activities

1600 Left site



Tues March 4

0700 Start arrive onsite

Tanks 103, 104, and 105
were taken offsite to Birman
Bro's Recycling. Total tonnage
8.39 tons. 3/3/08

0830 - Geosyntec sampled out of
tank 2.

0900 - MER removed crosswall between
tanks 2 and 106

0930 Geosyntec sampled tank 104
Tetra Tech will take split sample

950 MER offloaded containment
water. Appox. 1,500 Gal

1000 Geosyntec collects sample from tank
106

1050 Geosyntec collected sample from
tank 107

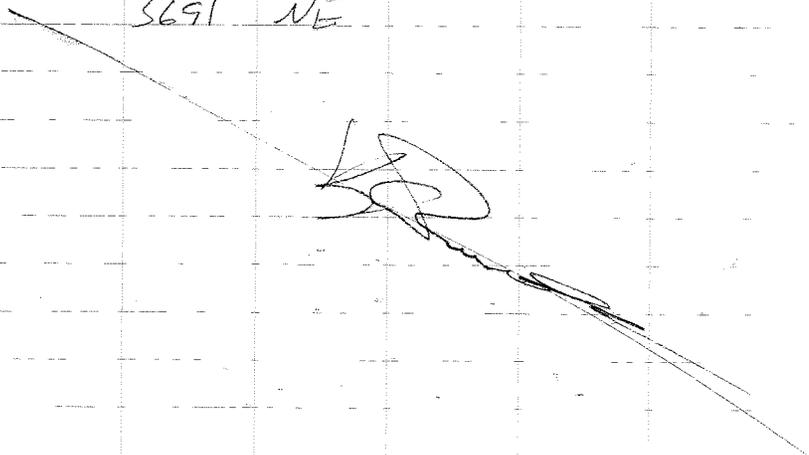
1130 Tank 102 and Stairway and
Walkway were taken off site
for a total of 4.8 tons

1330 - Storms canceled out rest of Day
work closed START offsite

3/19/08

1700 START Personnel Russell Arrive
onsite to examine Afto how
conditions. Site was secure.
Photos taken

1710 3683 N secured fence to
~~3683~~ ~~equipment observed~~
3684 NE trailers secure
3685 N tanker truck and unit
gone
3686 E Roll off bin
3687 SE
3688 N 3 main tanks left
3689 N
3690 E
3691 NE



3/20/08

0700 START Arrives onsite
No equipment ~~was~~ observed onsite
0800 Geosyntec personnel Doug
Murphy arrives onsite to
check rain gauge. 6/10th of an
inch was recorded for the
rain. Doug stated Moran
Environmental left the site
Tuesday until ~~the~~ analysis
conference what can be done
with product in tanks 02/06, 107.
THA 13 For Down Sampling
~~was~~ and THA 5 was updated
for piping demo in Secondary
Containment. Copies were made
COC copies were made.
Amounts of containment water
removed from site were recorded
and will be in the workbook.
Pictures were taken.

1200 made observations around
site. MER did not show
photos taken

1700 Afto how photos taken

Russell

Friday

3/21/08 0730 Arrive onsite with
Doug Murphy of Geosyntec
0800 site walk through. No
equipment observed. Doug says
a possibility of MER returning back
to the site next week.
1100 START Demob for home.

~~START~~

4/8^{SD}08

START

0930 START Davis departs the
Duluth, GA office for BCX Tank
1545 START Davis arrives at the BCX
Tank site and Doug Murphy
with Geosyntec is the only person
on site. Doug informs me that
tomorrow, 4/8/08, Moran is going
to pump out the rainwater
located in the containment berm
and no other activities are
planned as yet. Geosyntec has the
approval for the landfill, Republic,
but they are trying to iron out
the logistics of disposing of the
sludges located in the tanks.
They must sample TCLP every
300 yards and they don't know
where they are going to keep
the material until the TCLP
results are final. Doug sampled
the sludges in Tanks 2, 106, 107
not for analysis but for the
landfill to look at (the landfill
requested this)

SDavis

4/7/08

START

Doug believes that they should have everything ironed out logistically next week.

Called EPA OSC Matt Huysen and told him what was going on at the site. He told me to find out information from Doug and/or Jay concerning

- options of where they are going to store the sludge while we are waiting on TCLP results
- where they are going (planning) to mix the sludge with blend ash
- are there any new or amended THA's
- what occurred at the site since Kyle Russell was here (3/19-3/21)
- what activities are planned at the site the next couple of weeks
- what is the turnaround time for final TCLP results

SDavis

4/7/08

START

I spoke with Doug Murphy and he said that they are looking into storing the rolloffs at the receiving facility, and the parking lots west and north of the site. Doug does not know where they are going to mix the sludge with blend ash maybe the containment berm but he is not sure.

The last amended THA Kyle Russell received when he was here from 3/19-3/21. Doug just received 2 new THA's but they are in the internal review process. Activities since Kyle Russell was onsite -

3/25 sampled liquid from bottom of tank 2 for total metals analysis

4/2 and 4/3 disposed of waste oil from tank 2 to WRI

3900 gallons total

The next couple of weeks

SDavis

4/7/08

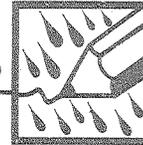
START

they would like to start disposing of the sludge when the logistics concerning the disposal are worked out.

6 days for final TCLP results
1700 left BCX Tank for hotel
1715 arrived at hotel

SDavis

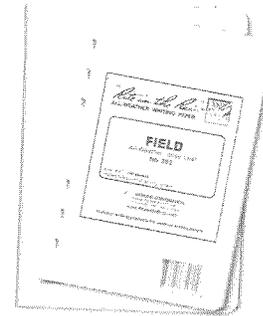
"Rite in the Rain"
ALL-WEATHER WRITING PAPER



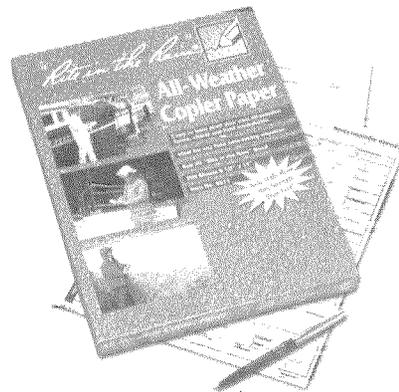
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4/8/08

START

0715 START Davis departs hotel for site.

0730 START Davis arrives on-site.

0745 Speak with Jay Nevin with Moran to ask questions that OSC Huyser requested.

Jay said that they may check with Confederate Point North, the company who owns the property to the north of the site to see if they could store rollofs there.

Mixing with blendash options -

The landfill (Republic) said that TCU needed to be run every solidification event or every 300 yards. Jay is thinking they could do the mixing in the containment berm but the most he could mix at a time would be 100 yards. The other option would be to do the mixing in tanks 106 or 107 but this would ~~be~~^{SD} involve heavy equipment among other things. Moran has SDavis

4/8/08

START

asked Geosyntec if they could plug the monitoring wells in the containment berm to allow for more room to mix.

Activities last couple of weeks - 4/1/08 - took a truck load from tank 104 to WRI but their bench test showed elevated halogens and they did not accept the material. The material was taken back to site.

Disposed of material from Tank 2

There is about 10-11,000 gallons of rainwater in the containment berm. Moran is currently pumping the water out and will be taking it to WRI. Jay collected a sample of the rainwater and took it over to WRI to make sure they will accept it.

0840 Speaking with Doug Murphy about the weather. The weather is located on the Geosyntec website for the SDavis

4/8/08

START

Project

Weather —

3/24 Overcast, moderate windy
48-61°F3/25 Clear, moderate wind,
40-58°F3/26 Clear, light ~~wind~~ wind, 47-66°

3/27 Clear, 55-68°F

3/28 Clear, 58-74°F

4/2 Clear warm

4/3 Clear warm

4/7 Overcast, drizzle, 67-69°F

0930 START Davis departs
the site for Duluth, GA1530 START Davis arrives at
the Duluth, GA office.

Photographic Log

IMG00001 Moran personnel
pumping water from the
containment berm into the vac
truck, facing northIMG00002 water located in the
containment berm, facing northIMG00003 West side of containment
berm, facing northeast

SDavis

4/8/08

START

IMG00004 view of site with
vac truck, facing northIMG00005 alternate view of
vac truck and containment
berm, facing northeast

SDavis

04/30/08

0715- START Roden departs hotel for site.

0730 START Roden Arrives on-site.

Geosyntec McKinnon reports the site is using bedash from JEA (Jacksonville Electric Authority) to stabilize sludge.

Today's scope of work entails sending out eight loads on the truck to the landfill. In-between shipments the plan is to continue stabilization/movement of material out of tank bottom on tank #10. Work is planned to begin on tank #12. A few tanks were knocked out yesterday and only a few tanks still contain material.

0745- START Roden asks Geosyntec McKinnon to send ~~her~~ the updated THA.

Geosyntec McKinnon says there are ~~two~~ ^{CR} individuals contracted through an individual independent contractor through Moran that will be hauling material off-site today. Independent contractor is Whitaker Inc. A shipment of metal was taken off site yesterday to Berman Bros Inc. in Jacksonville. The landfill receiving material is C. Roden

04/30/08

Broadhurst Landfill located in Screven, GA (912-536-7050)

0800- START Roden reviewed and signed Health and Safety Plan.

0830- pic ~~100-909~~¹⁰⁰ exclusion zone facing N.

McKinnon says there are a total of four men working on ~~exclusion zone~~^{CR} on-site from Moran today.

pic 100-~~910~~^{CR} pressure washing equip. E

pic 100-~~911~~^{CR} tanks #15 + 16 W

pic 100-912 Tank #12 W

pic 100-913 Secondary containment N

~~CR~~ unit / exclusion zone

pic 100-914 Contaminant reduction zone SW

pic 100-915 tank #103 emptied and NW

100-917 ~~CR~~ cleaned ready for deconstruction

pic 100-~~918~~^{CR} material contained in tank #10 S

pic 100-~~918~~^{CR} overview tanks #15, 16, 12 + 10 SE

pic 100-~~918~~^{CR} moved material to north N

end of site

pic 100-919 MORAN moving tank SW

pic 100-~~920~~^{CR} Overview of site / exclusion area N

pic 100-~~921~~^{CR} deconing equipment / area N

pic 100-~~922~~^{CR} Clean-up on tank #10 W

pic 100-~~923~~^{CR} Cutting metal S

C. Roden

04/30/08

- 0845 Geosyntec McKinnon reminded independent contractor, Whitaker Inc to wear hard hat in exclusion zone.
 - 0900 Geosyntec McKinnon informs START Roden there is a Vac truck in the contaminant reduction zone to pump any standing water from rain from the contaminant/exclusion zone.
 - 0900 START Roden asked when the last sampling event took place. McKinnon said ~~Monday, Apr 28, 2008~~ ^{Friday, APR 25, 2008}. Geosyntec collected waste water sample for complete TCLP analysis.
 - 0930 START Roden documents sample log for last two weeks.
 - 4/14 - Geosyntec collected sludge samples (composite) from tanks 102, 108, 109; Tank 101 and tanks 103, 104, 105.
 - 4/15 - Geosyntec collected sludge samples (composite by volume) from Tanks 12-17 and 114-115 for complete TCLP analysis.
 - collected equipment blank #EB-AQ-10
 - 4/18 - Geosyntec collected equip. blank #EB-AQ-11 and trip blank
 - collected sludge sample for complete TCLP analysis.
- C. Roden

04/30/08

4/25

- Geosyntec collected equip. blank #EB-AQ-12 and Trip blank
 - Collected waste water sample for TCLP analysis. Sample ID = T02-ww-01.
 - 1000 Two loads are taken off site to Broadhurst Landfill. One roll-off taken.
 - 1015 - Geosyntec and START perform a site walk. Pointed at exclusion area is constantly being pressure washed.
 - Tank #10 only contains material that was held in tank #10.
 - Dryer sludge is combined with kdash to stabilize more liquid forms of material.
 - 1100 START Roden reviews updated THA to make sure activities on-site comply. McKinnon informs START Roden they perform ~~paint~~ ^{paint} filter tests to determine if material is stable enough for shipment.
 - 1130- PM (Geosyntec) Scott Elder arrives on-site. Informs START Roden Moran plans to uncover big tanks for the next couple of weeks. Moran will slowly peel side tank wall and scoop material in small amounts until the level evens out, will repeat steps until tank is empty of material. Best method for safety
- C. Roden

04/30/08

1400- onsite activities: pressure washing secondary contamination \ exclusion zone, scooping material out of tank #10, no bed ash mix necessary. Mark Bergman (Moran) says they plan to get all material at and solidified by Friday April ~~30~~ ^{or} May 02, 08. No activities for the weekend.

Waiting on analytical results for bigger tanks because water is leaking from tank #2 while simultaneously cleaning the top of the tank and solidifying it.

- 1430 Geosyntec and Moran received weight tickets from Broadhurst Landfill for dates Apr. 24-25, 2008

04/25/08 - Rolloff = 13.36 Tons

" Rolloff Truck = 7.68 Tons

" Rolloff Truck = 5.89 Tons

" Rolloff Truck = 13.75 Tons

04/24/08 Rolloff Truck = 4.96 Tons

" Rolloff Truck = 16.11 Tons

" Rolloff Truck 11.76 Tons

- 1600. Moran finished cleaning tank #10 and will begin on tank #12. Tank #12 has to be opened through a man hole to reach contamination inside. They have

C. Roden

04/30/08

placed an empty tank to catch material once Moran ~~has~~ successfully removed the manhole by torching the bolts off the tank.

1645-ORC questions

- What fire suppression methods are being used during torching?

- How many loads were taken off-site?

Four loads total were taken off-site on Apr. 04/30/08 Reason for not

taking eight - Truck was higher than expected, thus creating more

problems loading trucks with material, in addition ~~of~~ two trucks came late

and more trucks did not come back

later in the afternoon due to the time it takes the trucks to make a round-trip.

Tank #12 has a cap cut off at the top but

the level of material is so high that uncovering the man hole to leak material is more cost +

time effective. Fire suppression method includes

water hose charged and ready ~~and~~ ^{CR} fire extinguisher at hand. The reason they are not using a

fire blanket is Moran is only cutting into

a bolt that is not near material as opposed

C. Roden

04/30/08

to the fire suppression methods they used before when Moran was cutting metal that was close to and containing ~~metal~~ material.

- 1715 START Roden departs site for hotel.
- 1745- START Roden arrives at hotel.

C. Roden

05/01/08

- 0715- START Roden departs hotel for site.
- 0730- START Roden arrives on-site.

Morning meeting covered trips, slips and falls, proper PPE, proper storage of torching equipment, and making sure that oxygen and acetylene tanks are stored 25' away from each other when not in use.

- 0900 - Moran loads rolloff with bed ash to take in exclusion area to get needed amount of bed ash to mix with material in tank #12
- 0930- Moran receives two new pressure washing pumps. Bed ash is mixed with tank #12 material. Geosyntec and START perform a site walk.

1100- Moran Jay Nevin informs START Roden they are using vac truck to suck out liquid from tanks from pressure washing. Moran Nevin says they don't have enough material today to haul offsite. He said yesterday was a trial run to see what methods they could improve for loading material and taking it off-site. Next week he hopes to be able to haul 100 plus tons off-site when they begin work on tank #2.

C. Roden

05/01/08

Moran crew is cleaning tank and cutting metal with torch. Fire suppression methods remain the same as yesterday since the crew is not near material. Moran has five workers on-site today.

-1145- Gravel truck arrives to dump and lay gravel down in the support zone. Trucks coming in and out of site has stirred dirt to where it is ~~to~~^{CR} carried off-site on Adams St. Gravel will help prevent this.

Geosyntec McKinnon says Moran's goal in the next couple of days is to cut all the metal down from the clean tanks and haul it off-site to be recycled so the site will be cleared for work to begin on the bigger tanks.

-1400- Moran continues to drain and shovel as much material as they can from tank #12 into empty tank. Moran realizes they can't get the levels low enough to cut the tank as they have the others. Their next plan of action is to hook a chain to tank 12 and pull with backhoe to tip and dump tank. Pulling with backhoe alone doesn't work so they drive skid steer on the other side (support zone) to push tank. Four crew members support task.
C. Roden

05/01/08

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-1500- Moran scoops and cleans spillage from tank 12. Material is carried and stored to most northern corner of site until ready for loading.

-1600- Moran brings bed ash rolloff back to secondary containment/exclusion area to load and mix bed ash with tank 12 material. Mix will be added to material ~~on the site floor~~^{in empty tank} CR. Material seems solidified as is but bed ash is added to pass paint filter test.

-1645- START Roden speaks with OSC Huyser about the day's activities. OSC directs START to ask about sampling material every 300 yards before taking it off-site and suggested to ask if there is an agreement

6/3/08

TUESDAY

0600 Left Duluth, GA office for airport to fly to Jacksonville, FL BCX site.

0900 landed in Jacksonville, FL JAX airport.

0930 Arrived on site at BCX 1903 E. Adams St.

Weather: Sunny no clouds, hot 79°F .

Joey McKinnon briefed START Fung on current activities, perform H&S tailgate meeting, and performed site walk. Current activities are:

- 1) mixing ^{bed} ash w/ contents of TANK 107.
- 2) deconing inside of TANK 106
- 3) pressure washing containment area
- 4) pumpin out rain water from yesterday's event.
- 5) accepting loads of ^{bed} ash in roll offs.

1015-1100 performed site walk and took numerous photos of current conditions.

Photo #	DIRECTION	DESCRIPTION
100-0200	W	Pressure washing
100-0201	N	mixing bed ash w/ Tank 107
100-0202	N	" " " "
100-0203	N	inside TANK 107
100-0204	N	" " "
100-0205	S	TANK 2 hatch
100-0206	NE	inside TANK 106
100-0207	E	" " "
100-0208	S	" TANK 02

Red PO

6/3/08

TUESDAY

Photo #	DIRECTION	DESCRIPTION
100-0209	UP	inside tank #02
100-0210	NNW	hatch entrance to Tank #106
100-0211	SW	water treatment area
100-0212	N	steam pressure washer
100-0213	SW	water treatment area
100-0214	W	" " "
100-0215	NNE	Tank 106 hatch
100-0216	S	water treatment area
100-0217	SE	" " "
100-0218	E	Tank #02 hatch
100-0219	N	" #106 hatch

1130-1230 lunch break

1232 Air monitor around the perimeter was performed by GEOSYNTEC Joey McKinnon twice before lunch. Around the perimeter the 5-gas read:

LOCATION	VOL ppm	LEL%	O ₂ %	CO ppm	H ₂ S ppm
perimeter	0	0	20.9	0	0
Tank #02 (inside)	0	0	20.9	0	0
Tank #106 (inside)	≤1.3	0	20.9	≤1.0	0
Tank #107 (inside)	≤0.2	0	20.9	≤2.0	0
Tank #107 (just above product)	≤0.9	0	20.9	≤2.0	4

Dubifan

TUESDAY

6/3/08

1233-1346 Performed another site walk through. The following activities were performed by MIER.

- 1) moved solidified soil from north staging area ^(P) to west wall area to make more room to work in.
- 2) pressure washing containment area.
- 3) sub walk through to demo large ASTS w/ shears. on June 17, 2008.

START walked the perimeter to get a sense of the off site odors. A faint smell was detected downwind at the containment wall. A very very faint ^(P) odor 30' away further downwind. Wind was from the south.

1430 START left site for hotel

1530 START finish compiling disposal quantities at hotel.

WEDNESDAY

6/4/08

0800 START on site and completed H&S briefing w/ Geosyntec, Joey McKinnon. ~~Weather~~ sunny no clouds $\geq 90^{\circ}\text{F}$. Current activities are

- 1) loading out solidified material to Broadhurst landfill.
- 2) pumping out rainfall from yesterday event.
- 3) air monitor at perimeter and work zones (near tank 107 & loading area) Results were at background.

Dick F

WEDNESDAY

6/4/08

0830 Debussed the spill on May 19, 2008 w/ Joey. It was a fault hydraulic cylinder. About 23 yards of material was spilled on the roadway and it was recovered and brought back to the site. The truck #109 w/ Whittiger has since used a ratchet strap to secure the load and fault cylinder. The right side cylinder is properly functioning. (see photos) No TTTA was revised. Inspection of each ~~truck~~ truck continues as planned.

0900 Also asked about T112 which contains liquid from T104 w/ possible concentration of total halogen $\geq 10000\text{ppm}$. Geosyntec stated that later TCEP results showed lower halogen results and the liquid was deemed non-haz. Results will be e-mailed. The liquid is planned to be incorporated into T107 sludge later today.

Photo #	DIRECTIONS	DESCRIPTION
100-0220	N	(6/3/08) E side of containment area
100-0221	W	" S side " " "
100-0222	SE	" opening up hatch in T107
100-0223	SE	" " " " " "
100-0224	S	" solidification activities at T107
100-0225	S	" " " " "
100-0226	E	" solidified material.

Produced

Photo #	DIRECTION	DESCRIPTION
100-0227	ENE	(6/19/08) solidified material from T107
100-0228	NE	" restaging stockpile for Noreca to west wall
100-0229	S	" pressure washing roll off truck
100-0230	W	(6/4/08) faulty hydraulic latch not in use bolt used as spacer.
100-0231	S	" passenger side latch ok
100-0232	S	" ratchet strap
100-0233	W	" " "
100-0234	N	" loading tires with solidified waste
100-0235	N	" double lining tires w plaster.

7/24/08

0900 Landed in Jacksonville, FL.

1030 START on site at BCX. Attendees.

Matt Hujser EPA

Dodi Fung START

Jay Beech GEOSYNTEC

Don Anderson represents CSX

Chris Bodin represents the state FL (DEP)

- The manhole was filled w/ concrete
- The edges of the tank bottoms ^{were} sealed w/ concrete

- 1 monitor well was left in place & could not be abandoned due to a blockage.

Also attending: Joseph Villo, Jr, PE } Lewis
Daniel Richardson } Looperman & Walker

1130 START & EPA left site after taking down the EPA signs, and take final pictures. START returned rental and to standby flight back to Dulh.



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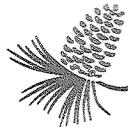
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ATTACHMENT 1

TETRA TECH PROCURED SHEALY LABORATORY DATA PACKAGES (ENCLOSED CD)

ATTACHMENT 2
GEOSYNTEC FINAL REPORT – AUGUST 2008 (ENCLOSED CD)