PRECONSTRUCTION HAZARDOUS MATERIALS MANAGEMENT PLAN

I-10 MOBILE RIVER BRIDGE

KIEWIT INFRASTRUCTURE ENGINEERING

ENVIRONMENTAL DESIGN DEPARTMENT

LONE TREE, COLORADO

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1 Introduction

This Early Works Hazardous Materials Management Plan (HMMP; Plan) identifies project-specific mitigation measures and methods to be implemented by Kiewit-Massman-Traylor (KMT) and project subcontractors to address hazardous materials spill prevention, response, and cleanup procedures for the I-10 Mobile River Bridge and Bayway Project (Project). This HMMP will focus on preconstruction activities and will be amended to include additional activities are they are planned.

The term "hazardous materials" as present in this Plan, is defined by the Alabama Department of Environmental Quality (ADEM) and the United States Environmental Protection Agency (EPA) and refers to hazardous substances, hazardous wastes, and materials designated as hazardous for transportation as defined in Code of Federal Regulations (CFR) 171.8.

2 Objective

Per the Preliminary Environmental Investigation Report (EIR) provided by the Alabama Department of Transportation (ALDOT), there is potential to encounter hazardous materials within the Project area (Thompson, 2017). The Design-Builder is responsible for the development of a preconstruction HMMP to establish practices for the safe handling, storage, treatment, and disposal of all hazardous materials encountered on and/or brought onto the Project site by the Design-Builder, a third party, or otherwise during preconstruction operations.

The preconstruction, or early works HMMP has been prepared to follow DRAFT I-10 Mobile River Bridge, Design-Build Project, CPMS No. 100073596, dated February 23, 2023 (Project Contract). This HMMP covers activities for the planned early work activities for the I-10 Project. The activities that this HMMP addresses include, but are not limited to:

- Process for obtaining and updating Safety Data Sheets (SDS), per OSHA requirements
- Roles and Responsibility of Project Environmental Personnel with contact information
- Procedures for identifying and documenting potentially hazardous waste
- Procedures for managing contaminated materials within Project area during construction
- Procedures for managing unanticipated contaminated materials within the Project area during construction
- Procedures for development of Spill Response Plan. The Spill Response Plan must include specific measures for mobilizing resources to contain and mitigate spills that occur on the Main Span Bridge, Bayway bridges (for those portions of the Bayway that are in the Project limits), and other portions of the Project, including resources to contain and mitigate spills into the rivers or bay. Design-Builder shall review and update the Spill Response Plan at least annually to incorporate advances in technology.
- Project environmental training program for mitigating incidents involving contamination or waste.
- Waste storage, handling, and disposal for the Project
- Planned procedures for Hazardous Materials training module as an Element of the Environmental Protection Training Plan (EPTP) component of the Comprehensive Environmental Protection Plan (CEPP).

- Procedures for preparing an Investigative Work Plan (IWP) and Site Investigative Report (SIR) if hazardous materials are discovered during construction activities.

This HMMP includes provisions to ensure that all on-site workers are aware of potential hazardous materials to which they may be exposed, limit the overall exposure to hazardous materials, and provide all necessary personal protection equipment to protect workers from exposure. This HMMP also includes procedures to ensure that all applicable certifications, licenses, authorizations, and Governmental Approvals for KMT personnel that handle hazardous materials are currently valid and remain valid through the duration of the work.

3 Project Summary

The I-10 Mobile River Bridge and Bayway Project will include the construction of a new six-lane bridge with 215 feet of air draft clearance (ADC) across the Mobile River to supplement the four-lane George Wallace Tunnel in Mobile, Alabama (Project). The Project will also replace a portion of the existing four-lane I-10 bridges across the Mobile Bay with new bridges. The HMMP for the Project covers early construction work for the Bridge and the Bayway in Mobile County. The Project will terminate and tie into Project 2 at the Mobile/Baldwin County line.

The Project utilizes the Progressive Design-Build (PDB) model approach where the project design is developed by the project Owner and the Design-Builder in a step-by-step process. The PDB model approach for the work shall be performed by the Design-Builder in two phases: (a) the preconstruction phase; and (b) the construction phase. The potential preconstruction activities include potholing activities, geotechnical investigation, Geotechnical Investigation Program (GIP), temporary electrical work, temporary ITS, signage, right -of-way (ROW clear and grub, construction of offices and yards, bulkheads, mobilization and procurement of specialized gear, test pile program and fabrication, utility relocations, and pre-condition survey.

3.1 Known Contaminated Sites within Project Alignment

ALDOT hired Thompson Engineering to complete the EIR Report for known contaminated sites within the Project alignment. Analytical results were compared to regulatory screening levels derived from the United States Environmental Protection Agency (EPA) and the State of Alabama Department of Environmental Management (ADEM) regulations. Known impacts in subsurface soil and groundwater include volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and metals (Thompson, 2017). Below are the sites sampled with detected concentration of contaminants above regulatory screening values (Thompson, 2017):

- **Harrison Brothers Property**: Metals including arsenic and chromium in soil and lead, nickel, and zinc in groundwater had detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values.
- **Austal (Former Mobile Abrasives) Property:** Arsenic and chromium in soil have detectable concentrations above EPA and/or ADEM industrial/commercial regulatory screening values. Groundwater samples were not collected.

- **ALDOT (Former Bender) Property:** PCB-1260, arsenic, and lead were detected in soil at concentrations above EPA and/or ADEM industrial/commercial regulatory screening values.
- **Bender Ship Building and Repair Facility:** SVOCs, PCB 1260, and the following inorganics in soil exceeded either residential or commercial PSV: Antimony, arsenic, chromium, copper, lead, mercury, thallium, and zinc. Lead in groundwater exceeded PSV.
- **Buffalo Properties:** Arsenic in soil and lead in groundwater had detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values.
- **J&U Properties:** Arsenic was detected in soil above EPA and ADEM industrial/commercial regulatory screening values. Groundwater samples were not collected.
- **Nellena and Stokley Property:** Arsenic in soil had detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values.
- **Hardee Property:** Arsenic in soil had detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values.
- **C.E. LLC Properties:** Arsenic in soil and arsenic and lead in groundwater had detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values.
- **Shell Station Property:** VOCs detected in soil including ethylbenzene, m-xylene & p-xylene, and total xylene had detectable concentrations above EPA and/or ADEM industrial/commercial regulatory screening values. VOCs specifically benzene and o-xylene and SVOCs specifically 1 and 2- methylnaphthalenes and naphthalene had detectable concentrations above EPA and ADEM tap water regulatory screening values. Arsenic in soil and groundwater had detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values.

4 Health and Safety

The HMMP includes provisions for making all on-site workers aware of the potential hazardous materials to which they may be exposed, limiting site workers exposure to hazardous materials, and providing all necessary personal protection equipment to protect workers from exposure. KMT will provide any non-Design-Builder personnel who visits the Project with the appropriate personal protection equipment. Several levels of health and safety training are required per OSHA, EPA, and Alabama regulations for personnel participating in construction activities. Any fieldwork performed during the Early Work phase of the contract will follow a work type specific Safety Management Plan developed by KMT. The work will also be completed in compliance with OSHA regulations under 29 CFR 1926.

4.1 Personal Protective Equipment

This section of the HMMP includes the Personal Protective Equipment (PPE) required for preconstruction on-site workers who may encounter hazardous materials and the PPE required for any person entering the site during pre-construction (on-site workers, inspectors, etc.). The PPE requirements included in this HMMP for workers and others

on-site during pre-construction operations are in accordance with the Occupational Safety and Health Standards 1910 Subpart I, Personal Protective Equipment (29 CFR §§ 1910.132-1910.140) and the Project Safety Plan.

4.1.1 General Requirements

KMT or its subcontractor will assess the sites where pre-construction operations will occur to determine if hazards are present, or are likely to be present, which necessitates the use of personal protective equipment (PPE). If any hazards are identified, KMT or its subcontractor will provide each affected on-site worker with properly fitting PPE appropriate to protect from any such hazards they are likely to, or will, encounter. Each on-site worker will be required to use the PPE and will be trained to know when PPE is necessary; what PPE is necessary; how to use, wear, and adjust PPE properly; and the proper care, maintenance, useful life, and disposal of PPE. Employees must demonstrate understanding of the training prior to performing any work requiring use of PPE. These requirements comply with 29 CFR § 1910.132.

KMT employees and KMT Subcontractors, who will encounter (or are likely to encounter contamination during pre-construction work, should use PPE which meets the OSHA requirements.

5 Hazardous Materials Training

Personnel working on site during preconstruction operations (such as but not limited to equipment operators, general laborers, and others) may be exposed to hazardous substances, health hazards, or safety hazards in the course of the work. Training will be provided before they are permitted to engage in operations that could expose them to hazardous substances, safety, or health hazards. Hazards will be identified in various stages of operation planning, including pre-activity meetings, mass safety meetings, daily play of the day meetings, toolbox talks, and job hazard analysis reviews. No employee will be permitted to supervise or participate in field operations until training has been completed. The training requirements are as follows for hazardous site workers:

- HAZWOPER training when exposed to hazardous materials.
- Current 8-hour refresher certificates.
- First-aid, cardiopulmonary resuscitation (CPR) and external defibrillator (AED) training.

Employers who can show by documentation or certification that an employee's work experience and/or training has resulted in training equivalent to that training required by this section shall not be required to provide the initial training requirements of those paragraphs to such employees and shall provide a copy of the certification or documentation to the employee upon request.

Project personnel shall be trained in potential health and safety issues, protective equipment, emergency information and supplies, and to discuss special topics as required by OSHA Standard 1910.38(e). Each preconstruction crew will complete a job hazard analysis (JHA) prior to initiating construction activities that lists the procedures for completing the job and identifies the site-specific hazards, which will be signed by each employee on-site.

5.1 Hazardous Waste Operations and Emergency Response (HAZWOPER)

Workers, such as utility workers, who must perform duties at a hazardous waste site that has not yet been characterized but where contamination is expected, do fall under the scope of 29 CFR 1910.120. These workers must work under the direction of an on-site supervisor who must be fully trained and protected pursuant to the HAZWOPER standard. When additional information becomes available through site characterization which verifies that there is minimal or no risk of employee exposure to hazardous substances, less PPE and worker training may be acceptable.

6 Emergency Procedure Guide

An Emergency Management and Disaster Recovery Plan (EMDRP) has been developed for the project as part of the MRB Site Specific Safety Plan. This plan is available on SharePoint and has been prepared for preconstruction activities in accordance with OSHA Part 1910 Subpart E Standard 1910.38.

Hazardous materials used during construction may include petroleum products such as gasoline, diesel fuel, and hydraulic fluid; lubricating oils and solvents; cleansers; paint; explosives; and other substances. Some of these materials would be used at material yards and on the ROW to operate and maintain equipment during construction. Small quantities of other materials such as pesticides, herbicides, fertilizers, paints, and chemicals may be used during project operation and maintenance activities. Pesticides and herbicides are hazardous materials and would be used according to manufacturer labeling. Human waste and chemicals used in portable toilets may also be present.

6.1 Hazardous Materials

The ADEM Administrative Code Division 14, Chapter 2 sets forth the rules that the EPA and ADEM will use in making information they receive available to the public and sets forth the requirements that generators, transporters, or owners or operators of treatment, storage, or disposal facilities must follow to assert claims of business confidentiality with respect to information that is submitted to EPA and ADEM under 335-14-1 through 335-14-6 and 335-14-9.

6.1.1 Characteristics

According to the Alabama Hazardous Wastes Management and Minimization Act (AHWMMA) and ADEM Hazardous Waste Management; Hazardous Waste: The Basics document, a hazardous waste is a waste that, because of its quantity, concentration or physical, chemical, or infectious characteristics may:

- Cause, or significantly contribute to, an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or
- Pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.

6.1.2 Designated Hazardous or Acutely Hazardous

Some wastes are designated hazardous, or acutely hazardous if found to be fatal to humans in low doses, because they appear on one of four lists of specific wastes. A list of items designated as hazardous or acutely hazardous waste are listed in ADEM Admin. Code 335-14-2-.04.

6.1.3 Other Hazardous Wastes

A solid waste, as defined in ADEM Admin. Code 335-14-2-.02 which is not excluded from regulation as a hazardous waste under ADEM Admin. Code 335-14-2-.01(4)(b), is a hazardous waste is it exhibits any of the characteristics identified in ADEM Admin. Code 335-14-2-.03.

6.2 Identification and Determination of Hazardous Materials

The term "hazardous materials" as presented in this HMMP, is defined by the Alabama Department of Environmental Quality (ADEM) definition which is described in the ADEM Hazardous Waste Management, Hazardous Waste Determination Document:

> *"For any material to be a hazardous waste, it must first be a solid waste. Certain materials, such as domestic sewage and industrial wastewater discharges, are specifically excluded from the definition of solid waste. These exclusions from the definition of solid waste are found at the ADEM Admin. Code. r. 335-14-2-.01(4)(a). If the material is not excluded from regulation as a solid waste under this rule, then the following determination will be evaluated."*
>
> *"In the context of hazardous waste regulations, the term "solid waste" does not refer to the physical state of the waste. Solid waste can be a solid, liquid, semi-solid, or contained gas. According to the Alabama Hazardous Wastes Management and Minimization Act and associated regulations, a solid waste is a material that will no longer be used for its original intended purpose and will be discharged or a material that must be reclaimed or processed before being reused. For a complete definition of solid waste, refer to ADEM Admin. Code r. 335-14-2-.01(2). If the material is not somehow excluded from regulation as a hazardous waste, then the following determination will be evaluated"*
>
> *"Certain solid wastes, such as household waste and wastes associated with the exploration, development, or production of crude oil, are specifically excluded from the definition of hazardous waste. These exclusions from the definition of hazardous waste are found in ADEM Admin. Code r. 335-14-2-.01(4)(b). If the material is not somehow excluded from regulation as a hazardous waste, then the following determination will be evaluated."*
>
> *"A hazardous waste is a solid waste which may cause or significantly contribute to an increase in mortality or serious irreversible, or incapacitating reversible, illness, or one that poses a substantial present or potential hazard when improperly treated, stored, transported, or disposed. For a complete definition of hazardous waste, refer to ADEM Admin. Code r. 335-14-2-.01(3). There are two ways in which your waste can be considered hazardous waste:"*

"The waste is a Listed Waste – in this case, the waste meets one or more of the hazardous waste listing descriptions found at ADEM Admin. Code r. 335-14-2-.04:"

> *"Hazardous Waste from non-specific sources (F-listed wastes) ADEM Admin. Code r. 335-14-2-.04(2) include items such as spent solvents (e.g., trichloroethylene, acetone, or xylene), spent plating solutions (e.g., cyanide plating bath), and wastewater treatment sludge from electroplating operations."*
>
> *"Hazardous wastes from specific sources (K-listed wastes) ADEM Admin. Code r. 335-14-2-.04(3) include items such as some still bottoms (e.g., aniline production), some process residues (e.g., coal tar distillation), and some pollution control dusts (e.g., lead smelting)."*
>
> *"Unused commercial chemical products, off-spec species, and container & spill residues (P- and U-listed wastes) ADEM Admin. Code r. 335-14-2-.04(4) include items such as carbon disulfide and formaldehyde."*

"The waste is a Characteristic Waste. In this case, the waste exhibits one or more of the four characteristics of hazardous waste found in ADEM Code r. 355-14-2-.03:"

> *"Ignitable wastes(D001) found in ADEM Code r. 355-14-2-.03(2) are liquid wastes with a flash point less than 140° F; solid wastes that ignite spontaneously and burn vigorously; or ignitable compressed gases or oxidizers as defined by USDOT (e.g., mineral spirits, paints, mapp gas)."*
>
> *"Corrosive Wastes (D002) found in ADEM Code r. 355-14-2-.03(3) are acids with a pH of 2 or less; caustics with a pH of 12.5 or more; or liquids that corrode steel at a rate great then ¼-inch per year (e.g., strippers, cleaners)."*
>
> *"Reactive Wastes (D003) found in ADEM Code r. 355-14-2-.03(4) explode; react violently with water; form toxic gases when exposed to water; release significant quantities of cyanide- or sulfide-containing gases; or are otherwise unstable (e.g., explosives, reactive metals)."*
>
> *"Toxic Wastes (D004 through D043) found in ADEM Code r. 355-14-2-.03(5) contain at least one of 40 specified constituents (e.g., lead, benzene, chlordane) that leach out of the wastes at levels that are hazardous."*

Hazardous Materials may be present onsite and can be classified as either "known" or "unknown". Known areas of hazardous materials are discussed in Section 3 of this HMMP.

Known hazardous materials will be identified in the early works operations by completing environmental sampling in areas where the work will disturb parcels in the PI Report. Unknown contamination will be identified through processes outlined in Section 6.7 of this document.

6.3 Hazardous Materials Documentation

A Safety Data Sheet (SDS) for each hazardous chemical onsite must be readily available to anyone at the project site. Each work area should have a sign posted that indicates where the SDSs are kept and/or how to access the SDSs. It is expected that any construction worker should be able to access a SDS, without assistance, in a seasonable amount of time after the request being made.

It is the Environmental Compliance Manager's (ECM) responsibility to obtain an SDS for each hazardous material onsite. The first time a hazardous material is purchased directly from a vendor, an SDS should be provided. If not it can be obtained by contacting the vendor directly.

6.4 Segregation, Storage, and Disposal of Hazardous Waste

All waste streams on the project will be profiled. If a waste stream is potentially hazardous, it will be stored in containers following RCRA and EPA guidelines:

- Mark each container with the words "Hazardous Waste," the date that the waste was generated, and the hazards of the contents of the container (e.g., ignitable, corrosive, toxic, or reactive or another nationally recognized hazard label).
- Use a container made of—or lined with—a material that is compatible with the hazardous waste to be stored. This will prevent the waste from reacting with or corroding the container.
- Keep all containers holding hazardous waste closed during storage, except when adding or removing waste. Do not open, handle, or store (e.g., stack) containers in a way that might rupture them, cause them to leak, or otherwise fail.
- Inspect container storage areas at least weekly. Look for leaks and for deterioration caused by corrosion or other factors.
- Keep the containers in good condition. If a container leaks, put the hazardous waste in another container, or contain it in some other way that complies with EPA regulations.
- Take precautions to avoid mixing incompatible wastes or materials in the same container to prevent dangerous situations

6.5 Material Handling and Management

Material that has been identified as contaminated by preconstruction sampling will be stored in a way that will not allow for material to contaminate areas off the ROW or stormwater. It will be transported in closed containers or a truck that is covered to prevent contamination. Other BMPs that will be followed include:

- Soil stockpiles are covered as early as possible, and stockpiles in place over 60 days are temporarily vegetated.
- The ground surface around stockpiles is graded to drain toward the edge of the stockpiles, and the berm or trench around stockpiles is covered by plastic sheeting.
- Stockpile and container storage areas are clearly delineated to prevent contact with unauthorized personnel.

6.6 Mitigation of Known Contaminated Sites

A sampling and analysis plan (SAP) has been prepared to address sites with known contaminants and address sites where excess generated soil will be required for off-site disposal. All contaminated material that will be removed from the site will be disposed of in accordance with ADEM regulations.

6.7 Mitigation of Unanticipated Contaminated Sites

During active construction the possibility of encountering unknown and undocumented hazardous waste is likely. Construction workers must be familiar with the hazardous materials that have been identified during the preliminary investigation. It is important for construction workers to have the capability to identify potentially hazardous waste during active project construction. The process of identifying hazardous waste during construction can be completed by:

- Stopping active construction work when suspected contaminated material is encountered
- Construction worker training of known contaminants at the project area
- Looks bad/ smells bad indicators

Notifying appropriate project environmental personnel to assess the potentially hazardous material which will include sample collection for analytical analysis and determination.

7 Hazardous Materials Spill Response Process

If the project includes a tank with storage capacity of more than 1,320 gallons of petroleum, a specific Spill Prevention, Control, and Countermeasures Plan (SPCC) must be developed. The preconstruction work does not plan to utilize any storage capacity of 1,320 during work, therefore a formal SPCC Plan is not included as part of the preconstruction plan submittal documents.

Following a spill, personnel would assess the situation to determine potential safety concerns and hazards posed to personnel and the environment. If safe, all reasonable efforts would be made to immediately control the source of the discharge and contain the spill. Personnel would stop the source of the spill by turning off machinery, clamping or disabling hoses, and removing any ignition sources. The material spilled and the quantity of the spill would be identified to the degree possible.

Proper disposal of all waste would abide by relevant federal and state statues and would follow the project operator's policies and procedures for proper waste characterizations, handling, and disposal. In the event of a large spill or a spill that migrates into surface waters, the spill response contractors would be called to assist in cleanup efforts. Any areas affected by clean-up would be assessed for remediation. Rehabilitation plans would be developed.

7.1.1 Employee Spill Prevention/Response Training

All staff on-site should receive training on spill prevention and control measures, including regular refresher training. Construction staff should make equipment and materials for cleanup readily accessible and mark them clearly so workers can follow procedures quickly and effectively. The training will cover:

- SPCC Basics
- Site-specific spill awareness
- Procedures to prevent spills
- Spill response procedures

7.1.2 Spill Response Equipment and Material

The construction contractor(s) would supply spill kits and materials that can be stored and readily deployed from staging areas. Each construction crew would have sufficient supplies of absorbent and barrier materials on hand to allow the rapid containment and recovery of any spills. The quantity and location of equipment would be submitted and approved by the project operator during the contract process. Typical equipment and material that may be included:

- Plastic/metal 55-gallon barrel or 40-gallon wheeled trash container with lid and labeled
- Bulk granular, diatomaceous earth, absorbent material
- Oil-absorbent pads and booms
- Large trash bags
- Rubber gloves
- Shovels

7.1.3 Spill Notification and Reporting

Spills or incidents in the field will be reported to the ECM. Spills over 5 gallons will also be documented in the EMS.

Reportable spills will be reported to ADEM by the environmental team as soon as possible. Reportable spills include:

- A spill of a petroleum-based product of 25 gallons or greater to land.
- A petroleum-based product spill of any amount to Waters of the State (surface waters, groundwater and storm water drainage systems)
- Hazardous Materials: Dependent on the chemical / material per Table 302.4 located in 40 CFR 302.4 - EPCRA

The ADEM Emergency Response contact for Mobile can be reached at (251) 581-0144.

8 Hazardous Materials Transportation Procedures

Transportation and manifesting of waste materials on public highways, streets, and/or roadways is conducted in accordance with federal, state, and local requirements. KMT documents and submits to the ALDOT the appropriate type

and amount of insurance required by laws and regulations governing the transportation of hazardous waste if hazardous materials are transported. KMT marks and labels containers with the required labels specified by federal Department of Transportation (DOT) regulations for shipping hazardous materials as listed under 40 CFR 172. KMT ensures the transporter's vehicle is properly placarded in compliance with applicable DOT hazardous material regulations. KMT ensures the shipper of the materials is trained and tested in accordance with the hazardous material transportation requirements prescribed in 49 CFR 172, Subpart H. KMT completes manifests or bills of lading in compliance with regulations and secure an EPA ID number. KMT utilizes ALDOT-approved vendors for transportation of hazardous materials.

9 Plan Amendments

This Early Work HMMP for the Project may be amended as needed with KMT and the ALDOT. Amendments to this HMMP are documented, dated, and appended to this HMMP for the Project. The modified HMMP for the Project shall be transmitted in InEight as well as kept with the Project records located in the Project office.

10 References

Thompson, 2017. Preliminary Investigation, Alabama Department of Transportation, Project No.: DPI-0030(005), I-10 Mobile River Bridge, Mobile County, Alabama. Prepared by Thompson Engineering, dated January 31, 2017.

KMT, 2023. I-10 Mobile River Bridge, Geotechnical Exploration, prepared by Kiewit Massman Traylor Joint Venture, dated May 1, 2023.

11 Appendix A – GIP Boring Assignment Table with Environmental Sampling Location Callouts

I-10 MOBILE RIVER BRIDGE

GEOTECHNICAL EXPLORATION

MAY 1, 2023



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DRAFT

1. PURPOSE

Per the Technical Provisions (TPs) for the Mobile River Bridge (MRB) project dated December 15, 2022, Section 10.3.2.3, a Geotechnical Exploration Plan (GEP)must be submitted to the State Geotechnical Engineer for approval. The following plan presents our understanding of the project, presents our methodology for performing the exploration and laboratory testing program. In addition, it provides a listing of the test boring locations and plans showing the location of the proposed borings.

2. SPECIFICATIONS FOR PERFORMING THE WORK

The TPs for the project present a comprehensive list of the standards to be used to design the project. Table 1 presents a listing of these standards. Additional design standards may be needed based on the geotechnical exploration findings. Should conditions be encountered that require design methods/procedures beyond those listed, KMT will work with ALDOT to obtain approval before advancing the design.

Table 1 – Project Design Standards

No.	Organization	Name
1	AASHTO	LRFD Bridge Design Specifications, with Interim Revisions, 9th Edition
2	FHWA	Geotechnical Engineering Circular No. 11-Design and Construction of Mechanically Stabilized Earth Walls and Reinforced Soil Slopes, Volume 1 and 2, FHWA NHI-16-024 and NHI-16-025.
3	ALDOT	Standard Specifications for Highway Construction
4	ALDOT	General Application Special Provisions
5	FHWA	Geotechnical Engineering Circular No 13-Ground Modification Methods Reference Manual, Volume 1 and II, FHWA NHI-16-027 and NHI-16-028
6	ALDOT	Special Provisions for Highway Construction
7	ALDOT	Structural Design Manual
8	AASHTO	Guide for Design of Pavement Structures, 1993
9	AASHTO	LRFD Bridge Construction Specifications
10	AASHTO	Standard Specifications for Structural Supported Highway Signs, Luminaires, and Traffic Signals, 6th edition, Appendix C
11	AASHTO	Guide Design Specifications for Bridge Temporary Work
12	MUTCD	Manual of Uniform Traffic Control Devices (Current edition)

3. RATIONAL FOR PLAN DEVELOPMENT

To develop the attached boring locations and depths, KMT reviewed the existing data and its proximity to the estimated foundation locations for the High-Level Approaches, Primary Bridge, Bayway, and west and east area interchange bridges. We also evaluated the existing data and its proximity to walls and on-grade roadway widening.

To support our review of existing data, we developed a Boring Location Plan (BLP) in CAD and Google Earth KMZ format, with the boring logs and laboratory test results embedded for quick reference. Based on review of the current Geotechnical TPs, the use of ALDOT provided test boring data is limited to borings performed within 50-feet from the Bayway bridge foundations and 25-feet for other structures supported on driven piles. This requirement was adhered to in development of the GEP.

The AASHTO LRFD Bridge Design Specifications, 9th Edition was reviewed for guidance on boring spacing for walls, bridges and roadway widening. Table 10.4.2-1 from AASHTO stipulates that, for deep foundations, a minimum of two borings be performed for structures (bents) with a width of 100 feet or greater. A single boring is acceptable for structures less than 100-feet in width. For retaining walls greater than 100-feet in length, borings spaced 100 to 200 feet apart with locations alternating between front and back of wall are required. Boring depths have been based on AASHTO requirements and our preliminary pile axial capacity calculations.

We expect the number of borings may change because the span lengths for several bridges have not been finalized. Further, we expect several of the borings on the east side of the project may not be accessible due to existing infrastructure, wetlands and shallow water depths preventing barge access. The Geotechnical Exploration Plan has been developed to meet AASHTO boring spacing and depth criteria, and the TPs boring spacing criteria for previously drilled borings. Data mining from the provided test borings was performed to determine the coefficient of variation for the different strata identified in the test borings. The statistical analyses, based on ASSHTO criteria, indicate to much variation in the strata to justify removing a significant number of borings. KMT can consult with ALDOT about the findings of these analyses.

As the exploration progresses, the Geotechnical Exploration Plan may need to be modified for anomalous conditions not anticipated based on review of the geotechnical RID. If such conditions are encountered that could impact construction, KMT will work with ALDOT to modify the exploration plan.

4. PROPOSED TEST BORING LOCATIONS

Appendix A provides a table (Boring Assignment Table) with the proposed boring locations, depths, and State Plane coordinates. Each boring has a specific designation based on whether it is for a bridge, wall, soil survey or light pole/sign/ITS. The designations are as follow:

- Bridge BR.(*Bridge No*)-(*Boring No*)
- Wall W.(Wall No.)-(Boring No)
- Soil Survey SS-(*Boring No*)
- Miscellaneous Structures LP-(*Light Pole No*)

Most test borings will be advanced using Wash Rotary drilling techniques (ASTM D5783). Standard Penetration Testing (AASHTO T206) will be performed in conjunction with the wash rotary drilling using calibrated safety hammers. Calibration of the safety hammer energy will occur prior to the start of the project. The SPT sampling frequency will generally include four samples in the top 10-feet of the boring with additional samples every 5-feet to boring termination. The Standard Penetration Test (SPT) samples will be field logged by an experienced engineer or geologist in accordance with ASTM D5434-03. The sample interval may be adjusted based on conditions encountered in the borings.

In addition to SPT sampling, Shelby tube (AASHTO T207) and bulk soil samples will be collected from selected borings and depths. The Shelby tube samples will be collected to evaluate strength and compressibility of the tested soils. Bulk soil samples will be used to support the soil survey.

Cone Penetrometer Testing (ASTM D 5778) method may be used to collect geotechnical data for bridges, walls, light poles, signs, culverts, and other miscellaneous structures. Cone Penetrometer Testing (CPT) will only be used where the tools can be pushed to the necessary depths.

Downhole seismic testing will be performed in the main span bridge borings in accordance with ASTM D7400-19. To collect the needed P-wave and S-wave data, the boring will be advanced to the design depth, the completed boring cased, and the annulus grouted. Downhole seismic testing will be performed to calibrate the SPT data against the soil modulus data collected from the seismic testing. The data will also be used to estimate settlement.

Temporary piezometers will be installed in approximately 30 borings located near existing structures, future wall or embankments, and where changes in the groundwater table could potentially induce settlement. Considering shallow groundwater is anticipated and minimal excavation, piezometer depths of 30-feet or less are estimated.

About 170 of the 420 test borings will be drilled over water. Based on the Mobile Bay Soundings Map developed by the National Oceanic and Atmospheric Administration (NOAA), Chart 11376, it appears the mean low water level depth in Polecat Bay between the existing bay bridge ranges between 2 and 4 feet. Estimated barge displacement is about 2 ½ feet. Review of tide information from the Mobile Bay Coast Guard Station indicates between 1 to 2 feet of daily tide variation.

A typical geotechnical drilling barge displaces about 2 ½ feet of water. Therefore, moving of the barges may be limited to high tide in the Bayway portion of the project based on the available data. Further, we expect there will be areas that will not be accessible to a barge. Track mounted swamp rigs designed to operate in shallow water and/or soft soil conditions are being considered for borings and CPT. Alternative methods to access the proposed test borings in the Bayway are currently being evaluated.

5. BOREHOLE ABANDONMENT

AASHTO does not provide a borehole abandonment procedure. Borings will be backfilled with a bentonite-cement grout from the bottom up. Environmental sampling and off-site disposal of soil cuttings and drill water from previously identified contaminated sites may be required based on a full review of environment conditions. Abandoned borings will be revisited 24 to 48 hours after grouting to inspect for settlement and will be topped off if needed. Boring over water will be abandoned without backfilling.

6. TEST BORING LOGS

Test boring logs will be prepared using the most recent version of gINT. The logs and a digital file will be provided to KMT upon drilling completion.

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7. LABORATORY TESTING PROGRAM

A comprehensive laboratory testing program will be performed in conjunction with the geotechnical exploration. Table 2 presents a listing of the test methods to be used and the estimated test quantities. The index property and corrosion test number estimate are based on the percentage of total samples collected, but the actual assignment of tests will be based on visual classification of the samples.

Table 2 – Laboratory Testing Program

Laboratory Test	ASTM/ASHTO Designation	Percent of Samples Tested	Estimated Quantity of Tests
Moisture Content	AASHTO T265	50	6,000
Atterberg Limits	AASHTO T89, T90	10	1,200
Grain Size	AASHTO T88	15	1,800
Wash 200	ASTM D1140	15	1,800
Proctor	AASHTO T99/T180	*	10
Resilient Modulus	AASHTO T274 (2)	*	5
Specific Gravity	AASHTO T100	**	120
Consolidation	AASHTO T216	*	35
UU	AASHTO T296	*	65
CU w/PP	AASHTO T296	*	10
Direct Shear	AASHTO T236	*	10
Corrosion Suite • pH • Electrical Resistivity • Chloride, soil • Sulfate, soil	 AASHTO T289 AASHTO T288 AASHTO T291 AASHTO T289	1	120

*Testing frequency to be determined based on subsurface conditions and visual review of soil samples.
**Testing to be performed on soil strength and compressibility testing.

8. PERMITTING/ALDOT REQUIREMENTS

Natural resource, environmental and ALDOT required permits will be needed to complete the work. KMT is currently reviewing the Environmental Assessment report provided by ALDOT. Based on a preliminary review of the environmental documents, it appears there are contaminated sites near the Mobile River that the project alignment crosses. For the limited number of borings in that area, our initial assessment is Level D PPE can be used. Further review of the environmental documents will be required by KMT to assess the PPE, training and proper waste disposal needs.

Following is a discussion of permits that are identified in the ALDOT Geotechnical Manual.

- **Property Access and Right-of-Entry Permit** – KMT will submit a map, list of properties, and the nature of work for each property where access is required to the Right-of-Way office. Field

work can't proceed until a right-of-entry permit for impacted properties is obtained. Permit will include the need for clearing and grading.

- **Stormwater Discharge Permit** – KMT will determine if an Alabama Department of Environmental Management (ADEM) National Pollutant Discharge Elimination System (NPDES) Permit for stormwater discharge and/or US Army Corps of Engineers Permit are required for field work. We don't believe a NPDES permit is needed. Based on our understanding of the permit requirements, we don't anticipate an NPDES permit will be required.
- **Over Water Drilling -** The work will be performed under a Nationwide Permit 6 for field survey activities. The Water Quality Certification requires that a BMP plan be prepared as part of the Nationwide permit. BMP's will be implemented and maintained to prevent ensure turbidity not exceed background levels by more than 50 Nephelometric units (NTUs).
- **Boring Location Layout and Survey** – KMT will locate the test land-based test borings by survey at the locations presented in Appendix A after ALDOT provides a Right of Entry Permit. Borings over water will be located as close as possible to the pre-determined coordinates by KMT using a handheld GPS unit. Ground truthing of GPS locations will be performed on occasion by measuring distances to the existing Bayway bridges.
- **Utility Locates and Clearance** – Utilities will be cleared using Alabama 811 (OneCall) by the drilling firm and a location ticket provided to KMT. KMT will also contact Alabama 811 and obtain a ticket before drilling begins. We will also update the tickets based on the drilling schedule to assure they are valid at the time of drilling. We will also maintain the tickets for the project duration.
- The need for performing pot-hole drilling, Ground Penetrating Radar (GPR) and/or Electromagnetics (EM) will be determined on a boring-by-boring basis based on review of the mapped utilities, field utility markings, and the ability to move the boring and still collect the necessary data. Examples where GPR/EM may be needed when:
    - Drilling areas are outside the ROW.
    - Potential utilities may be in the vicinity that do not prescribe to Alabama 811.
    - There is uncertainty of unmarked utilities after completion of the Alabama 811 locate.
    - At the discretion of the KMT drilling manager.

To support boring location, we have superimposed the ALDOT provided utility locations onto KMT's Boring Location Plan. We understand that most of the utilities shown on the drawing have not been field verified.

9. EROSION CONTROL

The Alabama Handbook for Erosion Control, Sediment Control, and Stormwater Management on Construction Sites and Urban Areas ("Alabama Handbook") will be used to develop Best Management Practices for drilling of test borings. An operations-specific BMP Plan will be prepared by an ADEM recognized Qualified Credentialed Professional (QCP) in accordance with the Water Quality Certification (WQC). Weekly comprehensive site inspections will be conducted to ensure that BMPs are effective for the protection of water quality. BMP's will be maintained until stabilization of disturbed areas is completed.

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KMT is currently evaluating areas of impact to determine whether an NPDES permit is required.

10. TRAFFIC CONTROL PLANS

Traffic control plans will be completed in accordance with the Manual on Uniform Traffic Control Devices (MUTCD FHWA current addition) for Streets and Highways. KMT intends to subcontract traffic control services along with the preparation of the traffic control plans. Completed traffic control plans will be reviewed by KMT to verify they meet the requirements of the MUTCD. KMT's field exploration manager will verify the plan is being correctly implemented in the field.

Because of the traffic control complexity associated with drilling in multiple locations, it is not practical to submit an overall traffic control plan. For multiple borings on shoulder or lane closures, we will try to have more than one drill rig working within a single work zone to reduce the total closure time. KMT will develop a drilling schedule based on the projects critical path and traffic control plans will be developed for each segment of the critical path at least two weeks before start of drilling. The plans will be submitted to ALDOT for approval prior to implementation.

11. HEALTH AND SAFETY PLAN

Safety is paramount to how KMT conducts business. KMT is prequalifying our partner geotechnical firms. Each firm is required to submit their Health and Safety Plan (HASP) that must include topics specified in a prequalification package provided by KMT. A copy of the Subcontract Health, Safety, Environmental Prequalification Information request form has been included in Appendix B. Upon receipt of the HASP, KMT Health and Safety personnel will review the plan and provide our comments. A meeting between KMT Health and Safety personnel and our geotechnical partners may also occur depending on the plan's complexity and the project related risks like over-water drilling.

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APPENDIX A

BORING ASSIGNMENT TABLE
BORING LOCATION PLANS

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Boring ID	Depth	Easting	Northing	Structure	Sheet No.	L/W
BR01-01	150	1795683.939	243092.212	BR1	3	Land
BR01-02	150	1795574.118	243210.0248	BR1	3	Land
BR01-03	150	1795676.866	243196.8769	BR1	3	Land
BR01-04	150	1795656.736	243330.7995	BR1	3	Land
BR01-05	150	1795820.96	243300.0063	BR1	3	Land
BR03-01	150	1795956.759	243585.5616	BR3	4	Land
BR03-02	150	1796045.45	243739.1527	BR3	4	Land
BR05-01	150	1796566.14	244458.29	BR5	5	Land
BR05-02	150	1796631.667	244452.9244	BR5	5	Land
BR05-03	150	1796698.264	244619.9547	BR5	5	Land
BR05-04	150	1796750.47	244614.63	BR5	5	Land
BR07-01	150	1797256.359	245652.7485	BR7	6	Land
BR07-02	150	1797290.809	245821.8571	BR7	6	Land
BR19-01	150	1802281.243	251995.0929	BR19	16	Land
BR19-02	150	1802407.649	252026.9347	BR19	16	Land
BR19-03	150	1802538.283	252037.7897	BR19	16	Land
BR19-04	150	1802668.93	252038.5745	BR19	16	Land
BR19-05	150	1802799.253	252031.445	BR19	16	Land
BR19-06	150	1802928.568	252010.3809	BR19	16	Land
BR19-07	150	1803055.897	251983.4684	BR19	16	Land
BR19-08	150	1803181.221	251948.8337	BR19	16	Land
BR19-09	150	1803298.446	251897.4152	BR19	16	Land
BR19-10	150	1803429.667	251863.2198	BR19	17	Land
BR19-11	150	1803551.865	251825.7288	BR19	17	Land
BR19-12	150	1803675.413	251784.6938	BR19	17	Land
BR19-13	150	1803791.773	251722.0289	BR19	17	Wetland
BR19-14	150	1803919.69	251693.9954	BR19	17	Wetland
BR19-15	150	1804169.605	251620.5538	BR19	17	Water
BR19-16	150	1804293.153	251579.5188	BR19	17	Water
BR19-17	150	1804416.701	251538.4838	BR19	17	Water
BR19-18	150	1804540.249	251497.4488	BR19	18	Water
BR19-19	150	1804663.797	251456.4138	BR19	18	Water
BR19-20	150	1804787.345	251415.3789	BR19	18	Water
BR19-21	150	1804910.893	251374.3439	BR19	18	Water
BR19-22	150	1805034.441	251333.3089	BR19	18	Water
BR19-23	150	1805157.989	251292.2739	BR19	18	Water
BR19-24	150	1805281.537	251251.2389	BR19	18	Water
BR19-25	150	1805405.085	251210.2039	BR19	18	Water
BR19-26	150	1805528.633	251169.1689	BR19	18	Water
BR19-27	150	1805652.181	251128.1339	BR19	18	Water
BR19-28	150	1805775.729	251087.0989	BR19	19	Water
BR19-29	150	1805899.277	251046.0639	BR19	19	Water
BR19-30	150	1806022.825	251005.029	BR19	19	Water
BR19-31	150	1806148.652	250969.4488	BR19	19	Water
BR19-32	150	1806272.887	250929.0733	BR19	19	Water
BR19-33	150	1806394.46	250886.032	BR19	19	Water
BR19-34	150	1806515.764	250844.8548	BR19	19	Water
BR19-35	150	1806640.002	250801.8159	BR19	19	Water
BR19-36	150	1806768.402	250763.206	BR19	19	Water

Boring ID	Depth	Easting	Northing	Structure	Sheet No.	L/W
BR19-37	150	1806890.199	250723.1528	BR19	19	Water
BR19-38	150	1807015.166	250687.3473	BR19	20	Water
BR19-39	150	1807141.187	250650.4878	BR19	20	Water
BR19-40	150	1807265.981	250615.1399	BR19	20	Water
BR19-41	150	1807390.895	250583.5016	BR19	20	Water
BR19-42	150	1807521.518	250548.991	BR19	20	Water
BR20-01	150	1802268.984	252056.6983	BR20	16	Land
BR20-02	150	1802393.618	252090.0998	BR20	16	Land
BR20-03	150	1802520.255	252120.2095	BR20	16	Land
BR20-04	150	1802646.142	252150.0153	BR20	16	Land
BR20-05	150	1802775.692	252163.7528	BR20	16	Land
BR20-06	150	1802897.584	252175.2304	BR20	16	Land
BR20-07	150	1803027.055	252183.1847	BR20	16	Land
BR20-08	150	1803157.958	252181.5655	BR20	16	Wetland
BR20-09	150	1803289.201	252173.0659	BR20	16	Water
BR20-10	150	1803418.714	252151.7725	BR20	17	Water
BR20-11	150	1803546.293	252122.7502	BR20	17	Water
BR20-12	150	1803671.498	252086.2361	BR20	17	Water
BR20-13	150	1803783.316	252062.8525	BR20	17	Water
BR20-14	150	1803922.128	252010.9092	BR20	17	Water
BR20-15	150	1804043.766	251967.261	BR20	17	Water
BR20-16	150	1804168.018	251926.7184	BR20	17	Water
BR20-17	150	1804289.983	251881.8791	BR20	17	Water
BR20-18	150	1804413.784	251840.0502	BR20	17	Water
BR20-19	150	1804537.044	251799.1109	BR20	17	Water
BR20-20	150	1804660.991	251757.5967	BR20	18	Water
BR20-21	150	1804784.146	251714.1664	BR20	18	Water
BR20-22	150	1804909.247	251674.42	BR20	18	Water
BR20-23	150	1805032.677	251633.4036	BR20	18	Water
BR20-24	150	1805157.022	251591.3822	BR20	18	Water
BR20-25	150	1805281.583	251550.0108	BR20	18	Water
BR20-26	150	1805404.809	251508.5372	BR20	18	Water
BR20-27	150	1805529.174	251467.2307	BR20	18	Water
BR20-28	150	1805652.501	251424.537	BR20	18	Water
BR20-29	150	1805776.007	251383.5093	BR20	19	Water
BR20-30	150	1805900.546	251342.7227	BR20	19	Water
BR20-31	150	1806023.353	251300.2018	BR20	19	Water
BR20-32	150	1806146.951	251261.4623	BR20	19	Water
BR20-33	150	1806269.585	251218.4215	BR20	19	Water
BR20-34	150	1806394.467	251179.8056	BR20	19	Water
BR20-35	150	1806519.355	251136.5934	BR20	19	Water
BR20-36	150	1806642.853	251096.1524	BR20	19	Water
BR20-37	150	1806765.09	251053.2205	BR20	19	Water
BR20-38	150	1806887.376	251010.8724	BR20	19	Water
BR20-39	150	1807011.744	250967.833	BR20	19	Water
BR20-40	150	1807133.142	250920.5514	BR20	20	Water
BR20-41	150	1807255.608	250873.5248	BR20	20	Water
BR20-42	150	1807377.327	250827.3086	BR20	20	Water
BR20-43	150	1807498.756	250777.162	BR20	20	Water

Boring ID	Depth	Easting	Northing	Structure	Sheet No.	L/W
BR20-44	150	1807618.107	250725.974	BR20	20	Water
BR21-01	150	1802827.515	252205.446	BR21	16	Land
BR21-02	150	1802919.056	252225.9847	BR21	16	Land
BR21-03	150	1803012.036	252239.815	BR21	16	Land
BR21-04	150	1803105.7	252245.4703	BR21	16	Wetland
BR21-05	150	1803200.245	252240.8225	BR21	16	Wetland
BR21-06	150	1803293.478	252228.9141	BR21	16	Water
BR21-07	150	1803384.968	252207.0157	BR21	17	Water
BR21-08	150	1803480.357	252193.672	BR21	17	Water
BR21-09	150	1803738.489	252021.0546	BR21	17	Water
BR21-10	150	1803808.056	251956.4871	BR21	17	Water
BR21-11	150	1803986.605	251716.2994	BR21	17	Water
BR21-12	150	1804029.442	251659.164	BR21	17	Water
BR21-13	150	1804056.692	251574.9076	BR21	17	Water
BR22-01	150	1802635.996	252579.9114	BR22	24	Wetland
BR22-02	150	1802704.793	252547.0097	BR22	24	Wetland
BR22-03	150	1802780.816	252515.2214	BR22	24	Wetland
BR22-04	150	1802855.587	252482.271	BR22	24	Wetland
BR22-05	150	1802927.242	252451.5896	BR22	24	Water
BR22-06	150	1802998.973	252420.3947	BR22	24	Water
BR22-07	150	1803073.421	252387.0529	BR22	24	Water
BR22-08	150	1803138.636	252357.2747	BR22	24	Water
BR22-09	150	1803211.773	252326.5762	BR22	16	Water
BR22-10	150	1803280.361	252296.1638	BR22	16	Water
BR22-11	150	1803349.822	252266.9229	BR22	16	Water
BR22-12	150	1803428.659	252232.8682	BR22	17	Water
BR22-13	150	1803573.283	252171.048	BR22	17	Water
BR22-14	150	1803648.42	252139.9293	BR22	17	Water
BR22-15	150	1803719.525	252109.9086	BR22	17	Water
BR22-16	150	1803858.35	252037.8276	BR22	17	Water
BR23-01	150	1802725.891	251912.2819	BR23	16	Land
BR23-02	150	1802794.34	251870.8715	BR23	16	Land
BR23-03	150	1803002.396	251751.2615	BR23	16	Land
BR23-04	150	1803076.331	251720.7069	BR23	16	Land
BR23-05	150	1803153.302	251698.9017	BR23	16	Land
BR23-06	150	1803232.367	251686.7059	BR23	16	Land
BR23-07	150	1803312.357	251685.4644	BR23	17	Land
BR23-08	150	1803392.172	251690.8999	BR23	17	Land
BR23-09	150	1803471.593	251700.5116	BR23	17	Land
BR23-10	150	1803551.349	251706.7506	BR23	17	Land
BR23-11	150	1803631.024	251713.9525	BR23	17	Land
BR23-12	150	1803711.016	251715.0894	BR23	17	Land
BR24-01	150	1802379.189	251982.084	BR24	16	Land
BR24-02	150	1802477.493	251964.1899	BR24	16	Land
BR24-03	150	1802571.715	251930.4913	BR24	16	Land
BR24-04	150	1802660.796	251884.1655	BR24	16	Land
BR24-05	150	1802746.229	251831.9671	BR24	16	Land
BR24-06	150	1802916.233	251709.1123	BR24	16	Land
BR08-01	150	1797476.646	245652.6446	BR8	6	Land

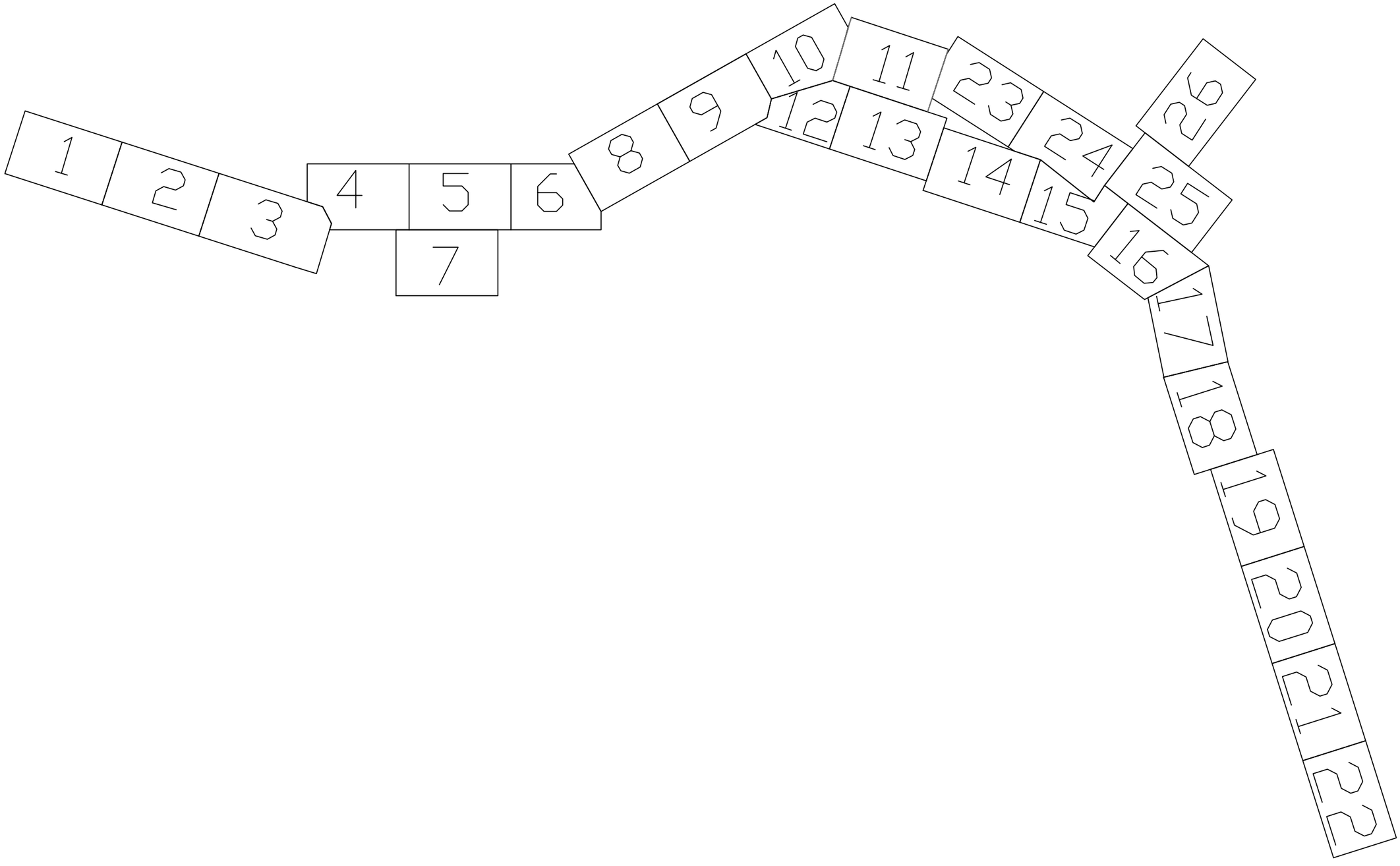
Boring ID	Depth	Easting	Northing	Structure	Sheet No.	L/W
BR08-02	150	1797569.977	245887.6254	BR8	6	Land
BR08-03	150	1797610.554	246100.2924	BR8	6	Land
BR-EHLA-01	150	1801206.199	250970.1525	BR-EHLA	14	Land
BR-EHLA-02	150	1801238.626	250923.9827	BR-EHLA	14	Land
BR-EHLA-03	150	1801349.364	251070.8089	BR-EHLA	15	Land
BR-EHLA-04	150	1801381.791	251024.6391	BR-EHLA	15	Land
BR-EHLA-05	150	1801492.027	251172.1986	BR-EHLA	15	Land
BR-EHLA-06	150	1801525.039	251125.2154	BR-EHLA	15	Land
BR-EHLA-07	150	1801682.23	251310.1914	BR-EHLA	15	Land
BR-EHLA-08	150	1801717.271	251260.3888	BR-EHLA	15	Land
BR-EHLA-09	150	1801826.033	251411.6172	BR-EHLA	15	Land
BR-EHLA-10	150	1801862.707	251356.2654	BR-EHLA	15	Land
BR-EHLA-11	150	1801976.764	251504.7941	BR-EHLA	15	Land
BR-EHLA-12	150	1802009.933	251447.2849	BR-EHLA	15	Land
BR-EHLA-13	150	1802162.347	251529.1085	BR-EHLA	15	Land
BR-EHLA-14	150	1802293.606	251662.5711	BR-EHLA	16	Land
BR-EHLA-15	150	1802319.47	251601.4141	BR-EHLA	16	Land
BR-EHLA-16	150	1802439.648	251780.3435	BR-EHLA	16	Land
BR-EHLA-17	150	1802480.781	251664.0009	BR-EHLA	16	Land
BR-EHLA-18	150	1802645.595	251716.6335	BR-EHLA	16	Land
BR-EHLA-19	150	1802776.928	251924.2339	BR-EHLA	16	Land
BR-EHLA-20	150	1802827.524	251762.7928	BR-EHLA	16	Land
BR-EHLA-21	150	1802866.045	251852.3543	BR-EHLA	16	Land
BR-EHLA-22	150	1802992.2	251809.9923	BR-EHLA	16	Land
BR-EHLA-23	150	1803093.825	251907.1738	BR-EHLA	16	Land
BR-EHLA-24	150	1803109.095	251772.0054	BR-EHLA	16	Land
BR-EHLA-25	150	1803236.688	251839.6041	BR-EHLA	16	Land
BR-EHLA-26	150	1803292.356	251822.4682	BR-EHLA	17	Land
BR-EHLA-27	150	1803482.326	251954.9262	BR-EHLA	17	Land
BR-EHLA-28	150	1803479.466	251765.9047	BR-EHLA	17	Land
BR-EHLA-29	150	1803594.255	251921.2577	BR-EHLA	17	Wetland
BR-EHLA-30	150	1803905.696	251875.6429	BR-EHLA	17	Water
BR-EHLA-31	150	1803894.6	251815.9227	BR-EHLA	17	Water
BR-EHLA-32	150	1804006.2	251832.4492	BR-EHLA	17	Water
BR-EHLA-33	150	1803994.059	251773.7946	BR-EHLA	17	Water
BR-EHLA-34	150	1804178.504	251791.5014	BR-EHLA	17	Water
BR-EHLA-35	150	1804161.149	251727.3596	BR-EHLA	17	Water
BR-EHLA-36	150	1804347.943	251740.015	BR-EHLA	17	Water
BR-EHLA-37	150	1804326.655	251677.1557	BR-EHLA	17	Water
BR-EHLA-38	150	1804511.903	251678.5389	BR-EHLA	18	Water
BR-EHLA-39	150	1804493.814	251625.1296	BR-EHLA	18	Water
BR-EHLA-40	150	1804677.695	251622.4847	BR-EHLA	18	Water
BR-EHLA-41	150	1804659.607	251569.0754	BR-EHLA	18	Water
BR-EHLA-42	150	1804845.522	251579.4001	BR-EHLA	18	Water
BR-EHLA-43	150	1805012.854	251525.6587	BR-EHLA	18	Water
BR-EHLA-44	150	1804994.765	251472.2494	BR-EHLA	18	Water
BR-EHLA-45	150	1805136.087	251484.0998	BR-EHLA	18	Water
BR-EHLA-46	150	1805259.31	251442.5134	BR-EHLA	18	Water
BR-EHLA-47	150	1805241.221	251389.1041	BR-EHLA	18	Water

Boring ID	Depth	Easting	Northing	Structure	Sheet No.	L/W
BR-EHLA-48	150	1805364.398	251347.5871	BR-EHLA	18	Water
BR-WHLA-01	150	1797201.021	245373.6133	BR-WHLA	5	Land
BR-WHLA-02	150	1797252.079	245346.6369	BR-WHLA	5	Land
BR-WHLA-03	150	1797274.311	245510.4823	BR-WHLA	6	Land
BR-WHLA-04	150	1797325.232	245486.3406	BR-WHLA	6	Land
BR-WHLA-05	150	1797339.806	245658.1524	BR-WHLA	6	Land
BR-WHLA-06	150	1797391.782	245636.5408	BR-WHLA	6	Land
BR-WHLA-07	150	1797402.074	245819.866	BR-WHLA	6	Land
BR-WHLA-08	150	1797455.226	245801.0046	BR-WHLA	6	Land
BR-WHLA-09	150	1797453.199	245976.1503	BR-WHLA	6	Land
BR-WHLA-10	150	1797507.189	245959.98	BR-WHLA	6	Land
BR-WHLA-11	150	1797497.714	246143.6968	BR-WHLA	6	Land
BR-WHLA-12	150	1797562.436	246113.3061	BR-WHLA	6	Land
BR-WHLA-13	150	1797532.618	246311.6529	BR-WHLA	6	Land
BR-WHLA-14	150	1797590.133	246303.029	BR-WHLA	6	Land
BR-WHLA-15	150	1797617.652	246475.7316	BR-WHLA	8	Land
BR-WHLA-16	150	1797584.436	246657.5055	BR-WHLA	8	Land
BR-WHLA-17	150	1797608.639	246830.7842	BR-WHLA	8	Land
BR-WHLA-18	150	1797666.154	246822.1602	BR-WHLA	8	Land
BR-WHLA-19	150	1797632.891	247004.0064	BR-WHLA	8	Land
BR-WHLA-20	150	1797690.406	246995.3825	BR-WHLA	8	Land
BR-WHLA-21	150	1797714.633	247168.5673	BR-WHLA	8	Land
BR-WHLA-22	150	1797681.379	247350.3409	BR-WHLA	8	Land
BR-WHLA-23	150	1797738.894	247341.717	BR-WHLA	8	Land
BR-WHLA-24	150	1797703.051	247524.2858	BR-WHLA	8	Land
BR-WHLA-25	150	1797763.056	247514.9608	BR-WHLA	8	Land
BR-WHLA-26	150	1797727.297	247698.6697	BR-WHLA	8	Land
BR-WHLA-27	150	1797788.663	247687.9133	BR-WHLA	8	Land
BR-WHLA-28	150	1797764.811	247872.2344	BR-WHLA	9	Land
BR-WHLA-29	150	1797917.311	248043.2563	BR-WHLA	9	Land
BR-WHLA-30	150	1797940.876	248336.1569	BR-WHLA	9	Land
BR-WHLA-31	150	1797996.406	248307.7346	BR-WHLA	9	Land
BR-WHLA-32	150	1798085.892	248580.2072	BR-WHLA	9	Land
BR-WHLA-33	150	1798137.413	248545.0195	BR-WHLA	9	Land
BR-WHLA-34	150	1798214.292	248750.2904	BR-WHLA	9	Land
BR-WHLA-35	150	1798262.443	248710.595	BR-WHLA	9	Land
BR-WHLA-36	150	1798333.054	248882.1099	BR-WHLA	12	Land
BR-WHLA-37	150	1798377.723	248838.5816	BR-WHLA	12	Land
BR-WHLA-38	150	1798463.281	249002.7644	BR-WHLA	12	Land
BR-WHLA-39	150	1798503.443	248957.5319	BR-WHLA	12	Land
BR-WHLA-40	150	1798599.954	249115.8872	BR-WHLA	12	Land
BR-WHLA-41	150	1798636.857	249065.6581	BR-WHLA	12	Land
BR-WHLA-42	150	1798744.751	249214.9721	BR-WHLA	12	Land
BR-WHLA-43	150	1798778.608	249168.0829	BR-WHLA	12	Land
BR-WHLA-44	150	1798870.442	249305.6113	BR-WHLA	12	Land
BR-WHLA-45	150	1798904.299	249258.7221	BR-WHLA	12	Land
BW-01	150	1805588.259	251337.4166	BW	18	Water
BW-02	150	1805564.669	251265.9022	BW	18	Water
BW-03	150	1805707.465	251282.3182	BW	18	Water

Boring ID	Depth	Easting	Northing	Structure	Sheet No.	L/W
BW-04	150	1805840.203	251269.3571	BW	19	Water
BW-05	150	1805814.73	251190.9597	BW	19	Water
BW-06	150	1805932.774	251131.2845	BW	19	Water
BW-07	150	1806080.468	251169.8014	BW	19	Water
BW-08	150	1806059.642	251105.4666	BW	19	Water
BW-09	150	1806203.521	251128.0255	BW	19	Water
BW-10	150	1806182.162	251061.4081	BW	19	Water
BW-11	150	1806328.285	251090.8584	BW	19	Water
BW-12	150	1806308.481	251029.7309	BW	19	Water
BW-13	150	1806451.608	251050.8851	BW	19	Water
BW-14	150	1806432.296	250990.4132	BW	19	Water
BW-15	150	1806575.571	251008.5253	BW	19	Water
BW-16	150	1806553.312	250940.8424	BW	19	Water
BW-17	150	1806699.271	250968.9818	BW	19	Water
BW-18	150	1806678.157	250905.5598	BW	19	Water
BW-19	150	1806829.384	250947.6395	BW	19	Water
BW-20	150	1806945.91	250885.7818	BW	19	Water
BW-21	150	1806917.993	250803.9369	BW	19	Water
BW-22	150	1807076.708	250863.8261	BW	20	Water
BW-23	150	1807200.294	250822.7824	BW	20	Water
BW-24	150	1807172.699	250743.8805	BW	20	Water
BW-25	150	1807315.963	250759.9603	BW	20	Water
BW-26	150	1807289.246	250682.8653	BW	20	Water
BW-27	150	1807444.34	250738.2902	BW	20	Water
BW-28	150	1807419.688	250659.5074	BW	20	Water
BW-29	150	1807563.244	250684.0296	BW	20	Water
BW-30	150	1807537.773	250604.1882	BW	20	Water
BW-31	150	1807689.788	250646.6727	BW	20	Water
BW-32	150	1807665.358	250575.2034	BW	20	Water
BW-33	150	1807826.622	250645.8615	BW	20	Water
BW-34	150	1807790.733	250539.7774	BW	20	Water
BW-35	150	1807908.302	250479.6332	BW	20	Water
BW-36	150	1808057.587	250520.9553	BW	20	Water
BW-37	150	1808021.133	250407.5563	BW	20	Water
BW-38	150	1808191.63	250509.7365	BW	20	Water
BW-39	150	1808158.095	250407.7276	BW	20	Water
BW-40	150	1808272.483	250337.2098	BW	20	Water
BW-41	150	1808438.041	250425.8096	BW	21	Water
BW-42	150	1808402.641	250320.2683	BW	21	Water
BW-43	150	1808552.534	250357.3369	BW	21	Water
BW-44	150	1808520.032	250260.5214	BW	21	Water
BW-45	150	1808681.099	250331.5902	BW	21	Water
BW-46	150	1808651.495	250243.5007	BW	21	Water
BW-47	150	1808799.56	250270.2499	BW	21	Water
BW-48	150	1808766.839	250179.6116	BW	21	Water
BW-49	150	1808928.22	250249.5383	BW	21	Water
BW-50	150	1808899.651	250164.565	BW	21	Water
BW-51	150	1809014.686	250101.0899	BW	21	Water
BW-52	150	1809169.234	250151.4871	BW	21	Water

Boring ID	Depth	Easting	Northing	Structure	Sheet No.	L/W
BW-53	150	1809137.666	250055.3994	BW	21	Water
BW-54	150	1809299.028	250129.6132	BW	21	Water
BW-55	150	1809270.437	250041.5763	BW	21	Water
Claiborn-1	150	1797913.754	249319.9559	Claiborn	10	Land
Claiborn-2	150	1797952.701	249708.9051	Claiborn	10	Land
MB-01	250	1799088.259	249344.0429	MB	12	Land
MB-02	250	1799051.787	249465.7214	MB	13	Land
MB-03	350	1799408.328	249720.374	MB	13	Land
MB-04	350	1799478.734	249621.7543	MB	13	Land
MB-05	350	1799473.558	249766.7708	MB	13	Land
MB-06	350	1799540.448	249665.8124	MB	13	Land
MB-07	350	1800500.035	250498.3219	MB	14	Water
MB-08	350	1800570.442	250399.7023	MB	14	Water
MB-09	350	1800565.265	250544.7188	MB	14	Water
MB-10	350	1800632.155	250443.7604	MB	14	Water
MB-11	250	1800979.718	250691.892	MB	14	Land
MB-12	250	1800943.246	250813.5705	MB	14	Land
SS-01	10	1796122.29	244044.3613	SS	4	Land
SS-02	10	1796353.647	243959.3541	SS	4	Land
SS-03	10	1796204.192	244227.0053	SS	4	Land
SS-04	10	1796740.11	244301.0831	SS	5	Land
SS-05	10	1796530.219	244761.1606	SS	5	Land
SS-06	10	1796681.577	244896.9155	SS	5	Land
SS-07	10	1797066.82	244513.5496	SS	7	Land
SS-08	10	1797301.327	244250.963	SS	7	Land
SS-09	10	1799205.163	250731.1249	SS	11	Land
SS-10	10	1801589.474	251720.4365	SS	23	Land
SS-11	10	1801875.112	251812.1477	SS	15	Land
SS-12	10	1802166.591	251883.1384	SS	15	Land
SS-13	10	1802464.03	251844.0161	SS	16	Land
SS-14	10	1804180.29	251416.6621	SS	17	Land
W1-01	40	1795895.472	243334.0801	W1	3	Land
W1-02	40	1795922.992	243439.8399	W1	4	Land
W1-03	40	1796018.26	243491.9507	W1	4	Land
W2-01	40	1797497.083	245446.9532	W2	6	Land
W2-02	40	1797485.99	245503.039	W2	6	Land
W2-03	40	1797528.859	245541.7705	W2	6	Land
W2-04	40	1797515.222	245598.3311	W2	6	Land
W2-05	40	1797556.949	245637.7188	W2	6	Land
W3-01	40	1797538.578	247084.6782	W3	8	Land
W3-02	40	1797562.801	247182.2916	W3	8	Land
W3-03	40	1797565.227	247282.9097	W3	8	Land
W3-04	40	1797589.45	247380.5231	W3	8	Land
W3-05	40	1797591.875	247481.1412	W3	8	Land
W3-06	40	1797616.684	247578.0028	W3	8	Land
W3-07	40	1797618.524	247679.3727	W3	8	Land
W3-08	40	1797642.747	247776.9861	W3	9	Land
W3-09	40	1797645.173	247877.6042	W3	9	Land
W3-10	40	1797669.396	247975.2176	W3	9	Land

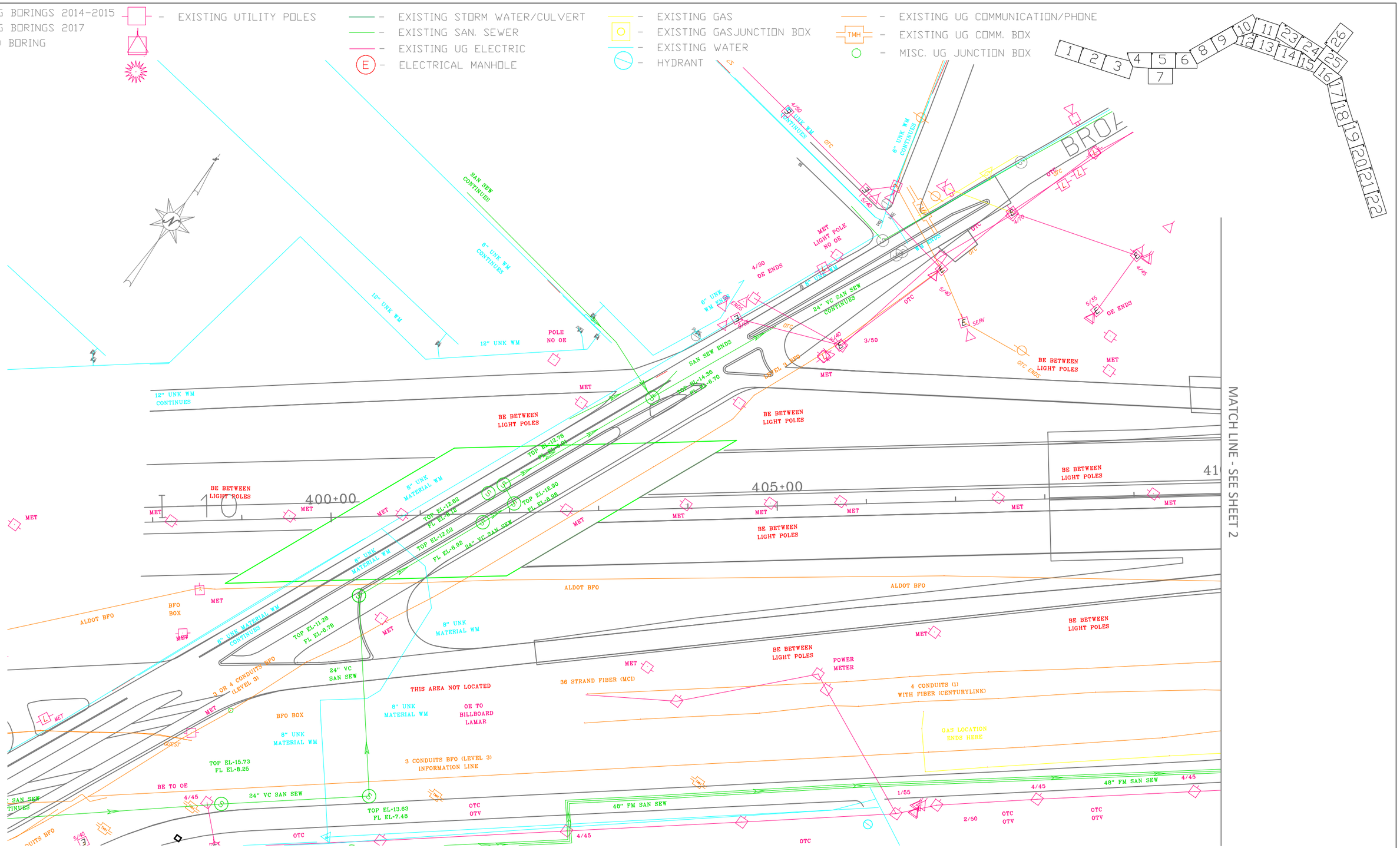
Boring ID	Depth	Easting	Northing	Structure	Sheet No.	L/W
W3-11	40	1797671.821	248075.8357	W3	9	Land
W3-12	40	1797694.815	248173.6177	W3	9	Land
W3-13	40	1797688.927	248272.7949	W3	9	Land
W3-14	40	1797702.616	248373.4873	W3	9	Land
W3-15	40	1797691.373	248461.7689	W3	9	Land
W4-01	40	1797079.708	245262.5358	W4	5	Land
W4-02	40	1797113.198	245323.0196	W4	5	Land
W5-1	40	1798185.894	250350.602	W5	11	Land
W5-2	40	1798264.789	250505.0782	W5	11	Land
W5-3	40	1798377.818	250663.9834	W5	11	Land
W6-1	40	1798118.318	250474.1589	W6	11	Land



MOBILE RIVER BRIDGE BORING LAYOUT

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- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

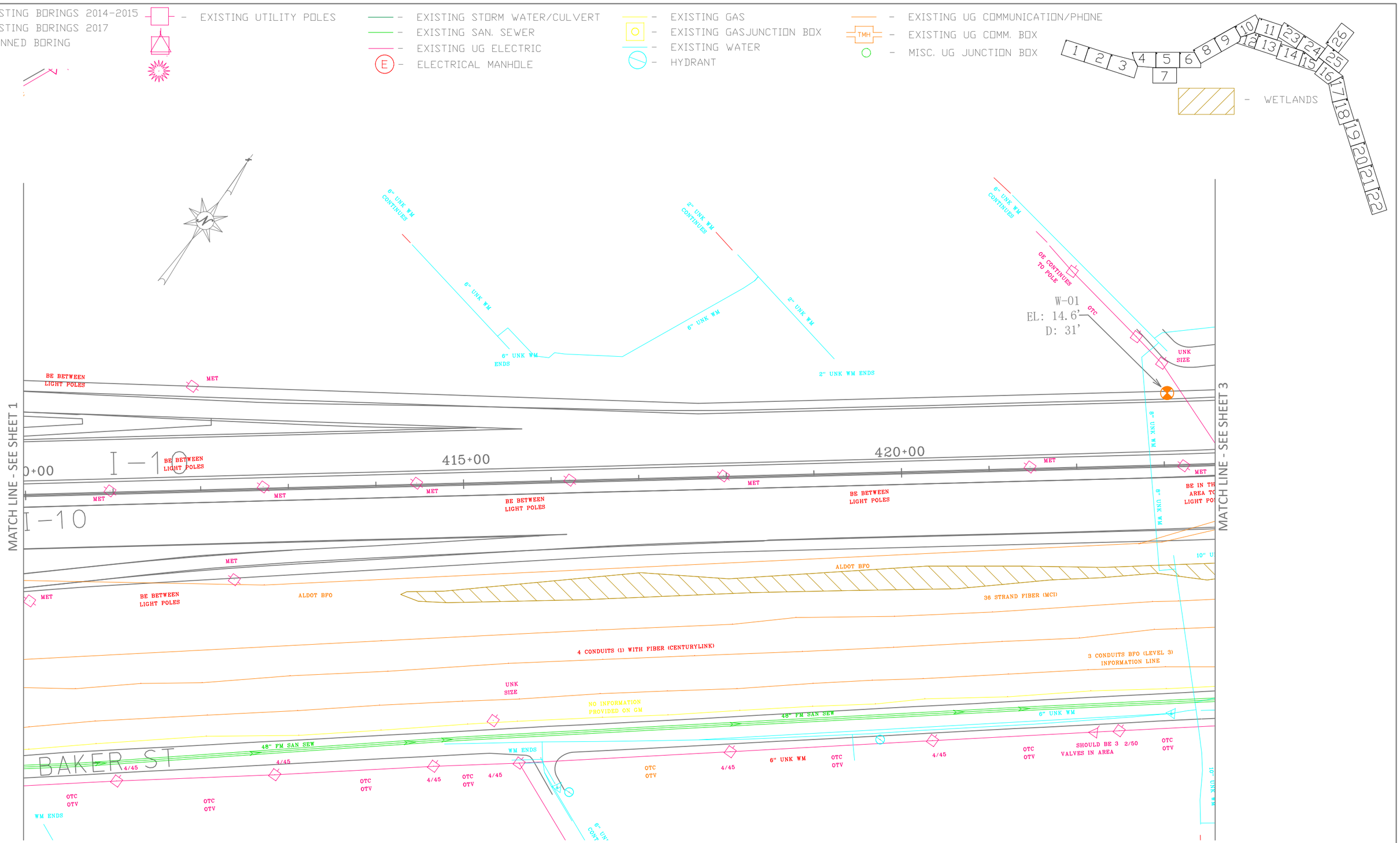


NO PLANNED BORINGS ON THIS SHEET

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 1

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
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- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX
- WETLANDS

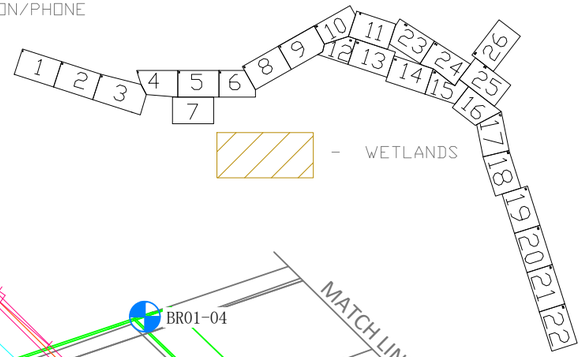


NO PLANNED BORINGS ON THIS SHEET

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 2

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX
- WETLANDS

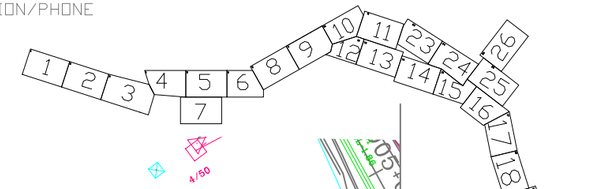


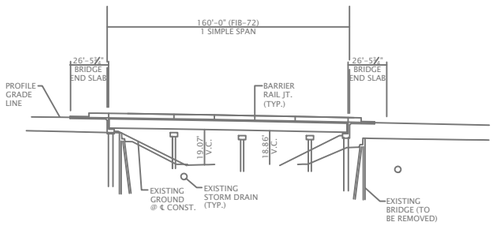
Boring ID	Depth	Easting	Northing
BR01-01	150	1795683.9	243092.2
BR01-02	150	1795574.1	243210.0
BR01-03	150	1795676.9	243196.9
BR01-04	150	1795656.7	243330.8
BR01-05	150	1795821.0	243300.0
W1-01	40	1795895.5	243334.1

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 3

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

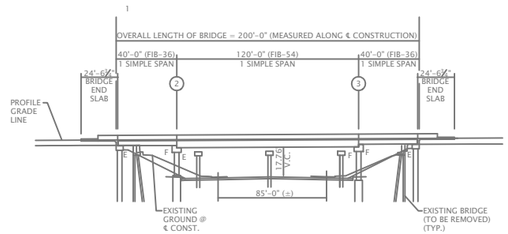


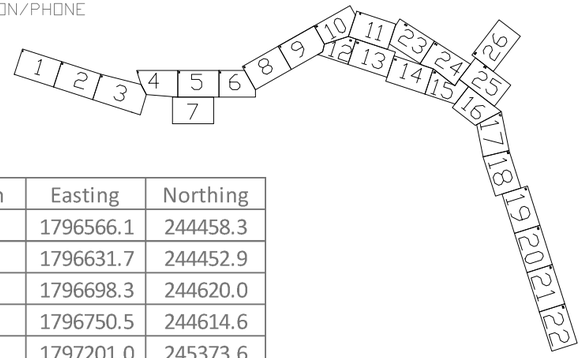


Boring ID	Depth	Easting	Northing
BR03-01	150	1795956.8	243585.6
BR03-02	150	1796045.5	243739.2
SS-01	10	1796122.3	244044.4
SS-02	10	1796353.6	243959.4
SS-03	10	1796204.2	244227.0
W1-02	40	1795923.0	243439.8
W1-03	40	1796018.3	243492.0

MOBILE RIVER BRIDGE BORING LAYOUT

- EXISTING BORINGS 2014-2015
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- EXISTING UTILITY POLES
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- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



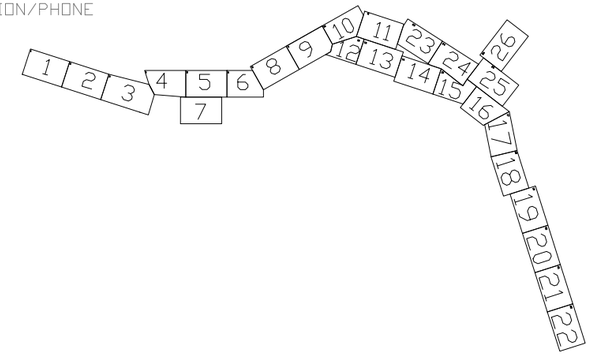


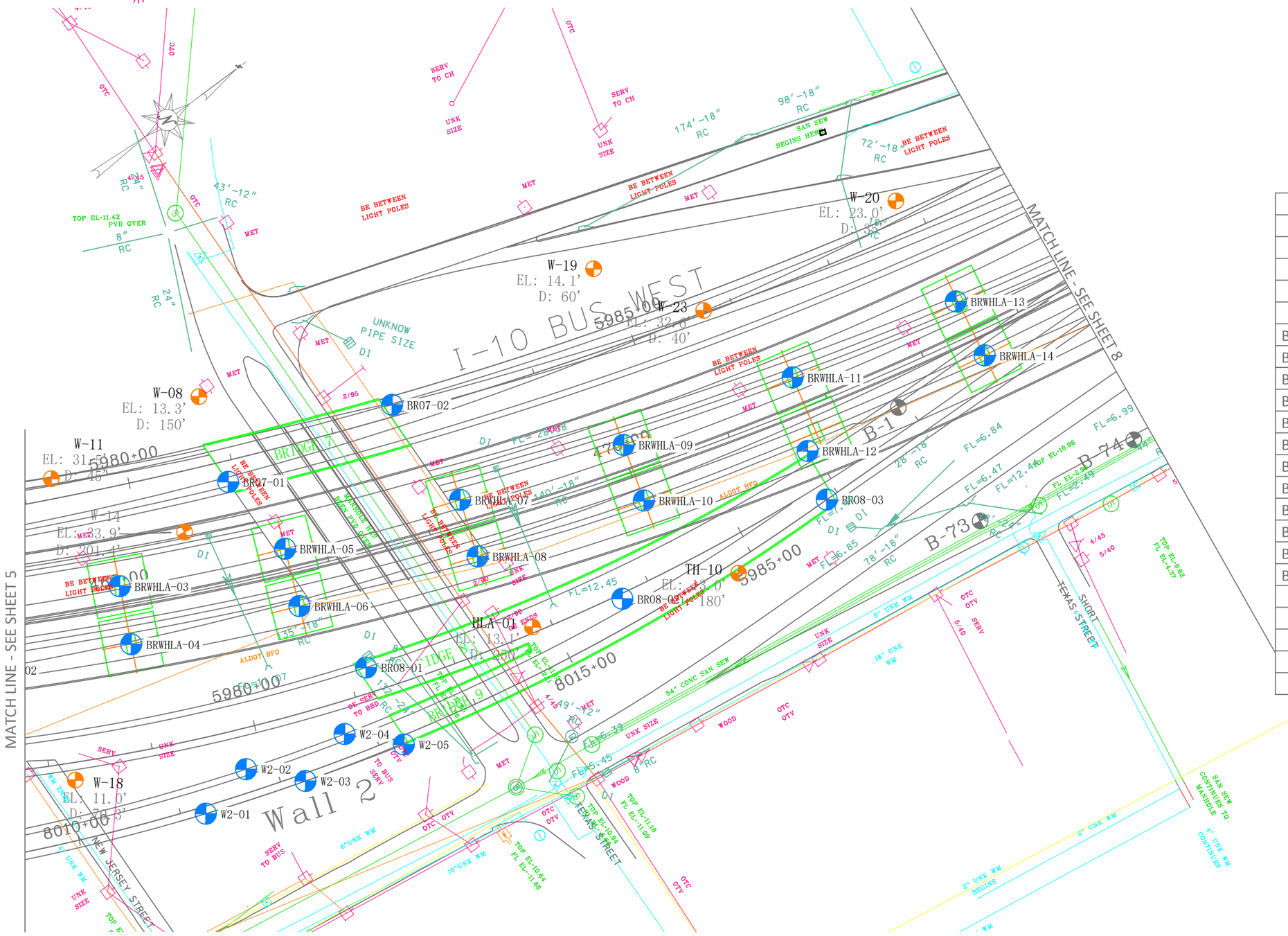
Boring ID	Depth	Easting	Northing
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BR05-02	150	1796631.7	244452.9
BR05-03	150	1796698.3	244620.0
BR05-04	150	1796750.5	244614.6
BR-WHLA-01	150	1797201.0	245373.6
BR-WHLA-02	150	1797252.1	245346.6
SS-04	10	1796740.1	244301.1
SS-05	10	1796530.2	244761.2
SS-06	10	1796681.6	244896.9
W4-01	40	1797079.7	245262.5
W4-02	40	1797113.2	245323.0

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 5

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

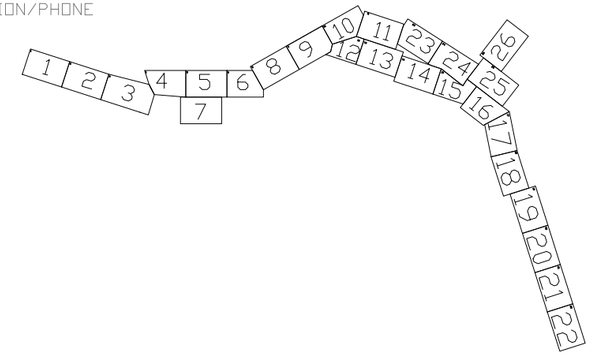




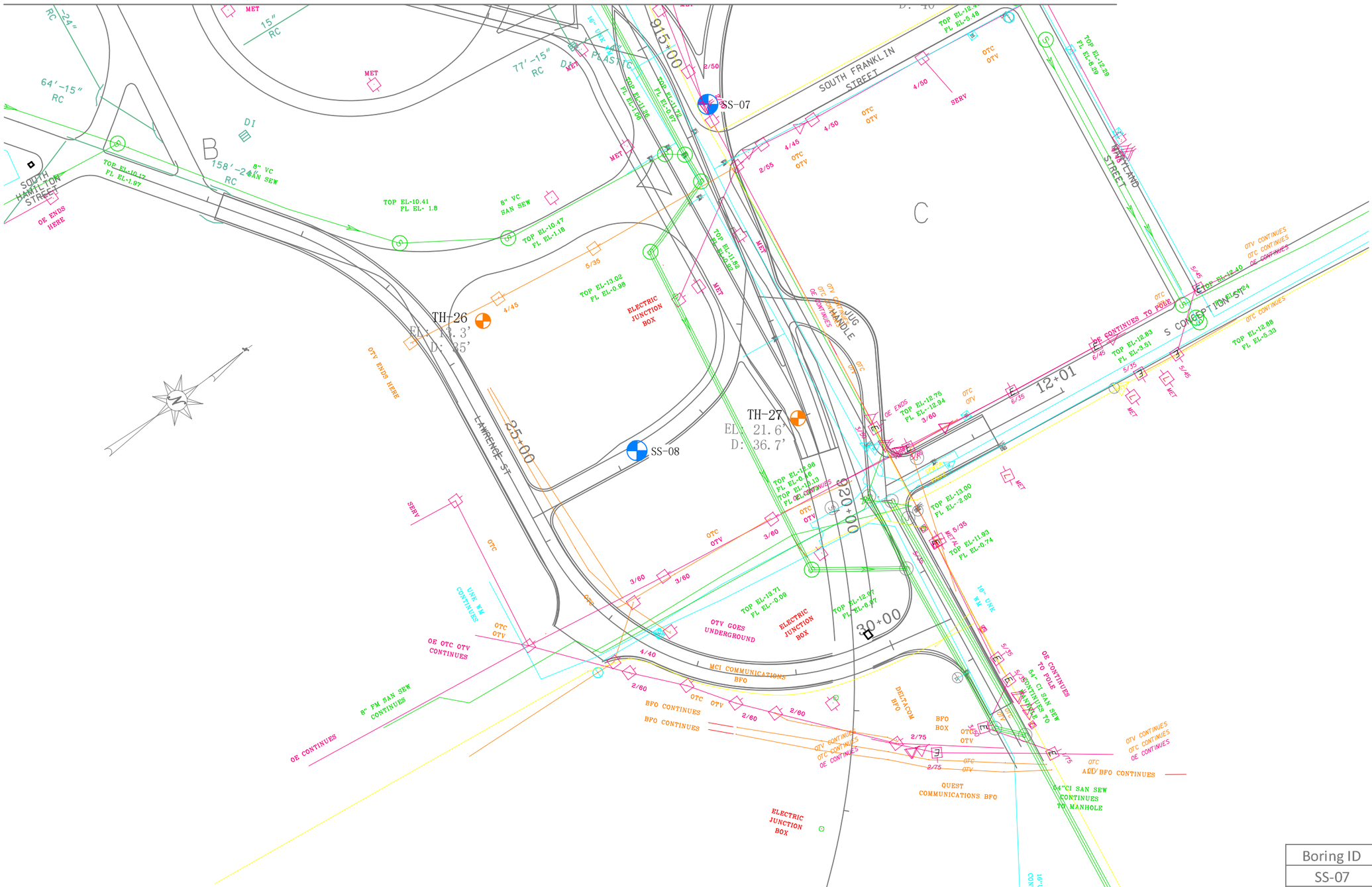
Boring ID	Depth	Easting	Northing
BR07-01	150	1797256.4	245652.7
BR07-02	150	1797290.8	245821.9
BR08-01	150	1797476.6	245652.6
BR08-02	150	1797570.0	245887.6
BR08-03	150	1797610.6	246100.3
BR-WHLA-03	150	1797274.3	245510.5
BR-WHLA-04	150	1797325.2	245486.3
BR-WHLA-05	150	1797339.8	245658.2
BR-WHLA-06	150	1797391.8	245636.5
BR-WHLA-07	150	1797402.1	245819.9
BR-WHLA-08	150	1797455.2	245801.0
BR-WHLA-09	150	1797453.2	245976.2
BR-WHLA-10	150	1797507.2	245960.0
BR-WHLA-11	150	1797497.7	246143.7
BR-WHLA-12	150	1797562.4	246113.3
BR-WHLA-13	150	1797532.6	246311.7
BR-WHLA-14	150	1797590.1	246303.0
W2-01	40	1797497.1	245447.0
W2-02	40	1797486.0	245503.0
W2-03	40	1797528.9	245541.8
W2-04	40	1797515.2	245598.3
W2-05	40	1797556.9	245637.7

MOBILE RIVER BRIDGE BORING LAYOUT

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



MATCH LINE - SEE SHEET 5

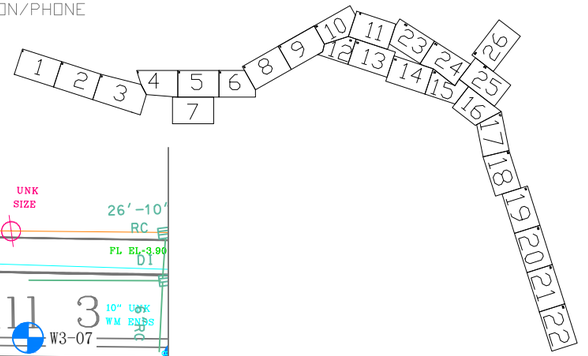


Boring ID	Depth	Easting	Northing
SS-07	10	1797066.8	244513.5
SS-08	10	1797301.3	244251.0

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 7

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

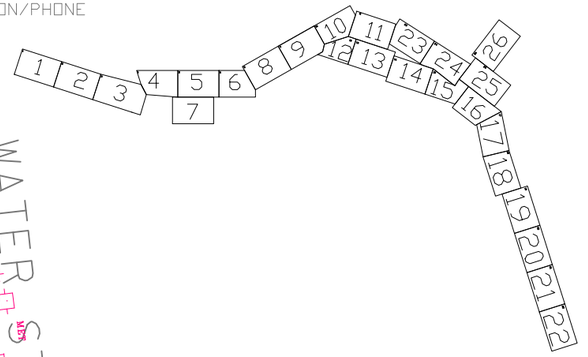


Boring ID	Depth	Easting	Northing
BR-WHLA-15	150	1797617.7	246475.7
BR-WHLA-16	150	1797584.4	246657.5
BR-WHLA-17	150	1797608.6	246830.8
BR-WHLA-18	150	1797666.2	246822.2
BR-WHLA-19	150	1797632.9	247004.0
BR-WHLA-20	150	1797690.4	246995.4
BR-WHLA-21	150	1797714.6	247168.6
BR-WHLA-22	150	1797681.4	247350.3
BR-WHLA-23	150	1797738.9	247341.7
BR-WHLA-24	150	1797703.1	247524.3
BR-WHLA-25	150	1797763.1	247515.0
BR-WHLA-26	150	1797727.3	247698.7
BR-WHLA-27	150	1797788.7	247687.9
W3-01	40	1797538.6	247084.7
W3-02	40	1797562.8	247182.3
W3-03	40	1797565.2	247282.9
W3-04	40	1797589.5	247380.5
W3-05	40	1797591.9	247481.1
W3-06	40	1797616.7	247578.0
W3-07	40	1797618.5	247679.4

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 8

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

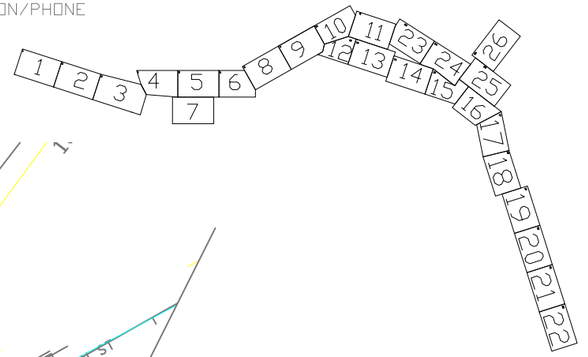


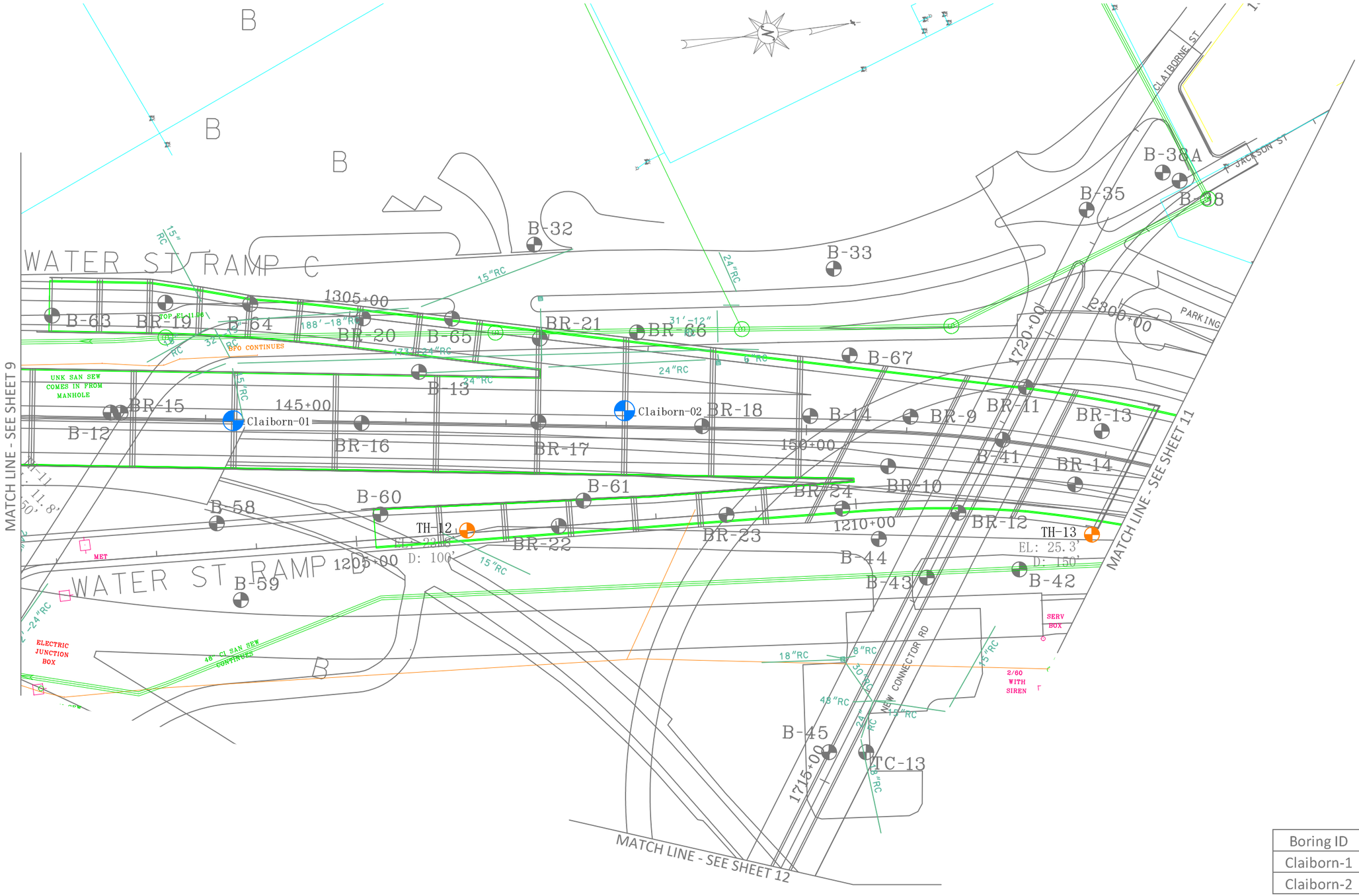
Boring ID	Depth	Easting	Northing
BR-WHLA-28	150	1797764.8	247872.2
BR-WHLA-29	150	1797917.3	248043.3
BR-WHLA-30	150	1797940.9	248336.2
BR-WHLA-31	150	1797996.4	248307.7
BR-WHLA-32	150	1798085.9	248580.2
BR-WHLA-33	150	1798137.4	248545.0
BR-WHLA-34	150	1798214.3	248750.3
BR-WHLA-35	150	1798262.4	248710.6
W3-08	40	1797642.7	247777.0
W3-09	40	1797645.2	247877.6
W3-10	40	1797669.4	247975.2
W3-11	40	1797671.8	248075.8
W3-12	40	1797694.8	248173.6
W3-13	40	1797688.9	248272.8
W3-14	40	1797702.6	248373.5
W3-15	40	1797691.4	248461.8

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 9

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



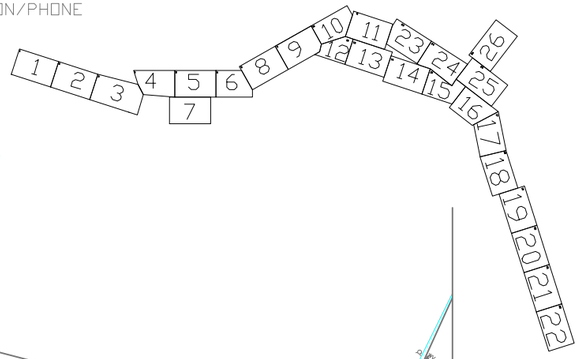


Boring ID	Depth	Easting	Northing
Claiborn-1	150	1797913.8	249320.0
Claiborn-2	150	1797952.7	249708.9

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 10

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

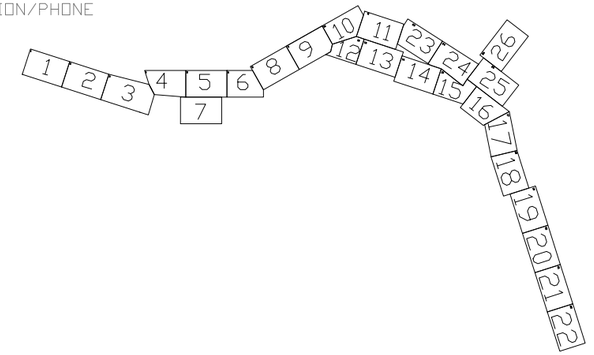


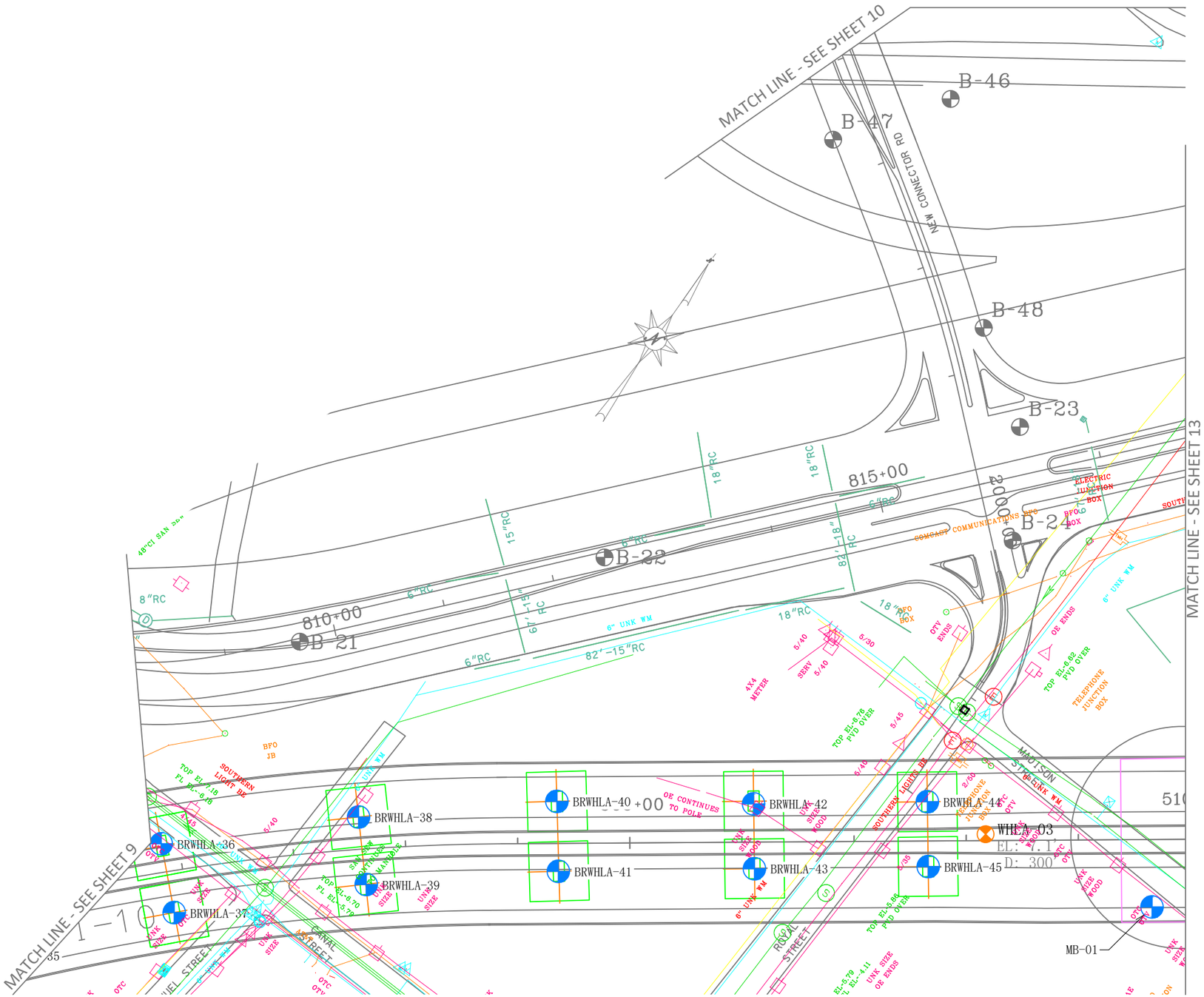
Boring ID	Depth	Easting	Northing
SS-09	10	1799205.2	250731.1
W5-1	40	1798185.9	250350.6
W5-2	40	1798264.8	250505.1
W5-3	40	1798377.8	250664.0
W6-1	40	1798118.3	250474.2

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 11

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

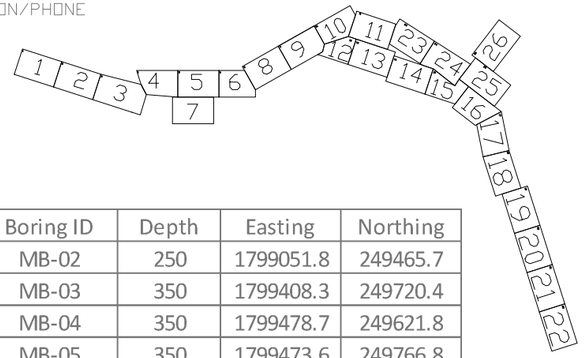




Boring ID	Depth	Easting	Northing
BR-WHLA-36	150	1798333.1	248882.1
BR-WHLA-37	150	1798377.7	248838.6
BR-WHLA-38	150	1798463.3	249002.8
BR-WHLA-39	150	1798503.4	248957.5
BR-WHLA-40	150	1798600.0	249115.9
BR-WHLA-41	150	1798636.9	249065.7
BR-WHLA-42	150	1798744.8	249215.0
BR-WHLA-43	150	1798778.6	249168.1
BR-WHLA-44	150	1798870.4	249305.6
BR-WHLA-45	150	1798904.3	249258.7
MB-01	250	1799088.3	249344.0

MOBILE RIVER BRIDGE BORING LAYOUT

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



Boring ID	Depth	Easting	Northing
MB-02	250	1799051.8	249465.7
MB-03	350	1799408.3	249720.4
MB-04	350	1799478.7	249621.8
MB-05	350	1799473.6	249766.8
MB-06	350	1799540.4	249665.8

MATCH LINE - SEE SHEET 11

MATCH LINE - SEE SHEET 12

MATCH LINE - SEE SHEET 14

B-25 B-27 B-28 B-26 MB-01 MB-02 MB-03 MB-04 MB-05 MB-06

MB-01 EL: 2.9' D: 300'

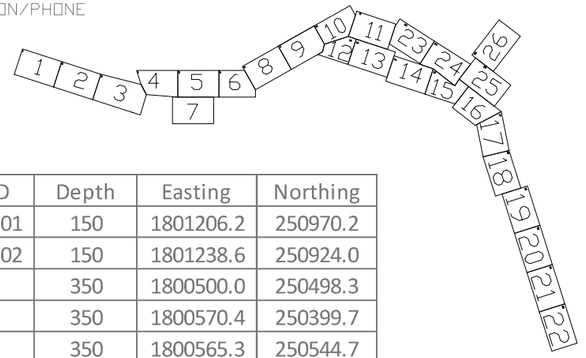
510+00 515+00 520+00

ESLAVA STREET MONROE STREET OLD WATER TREE

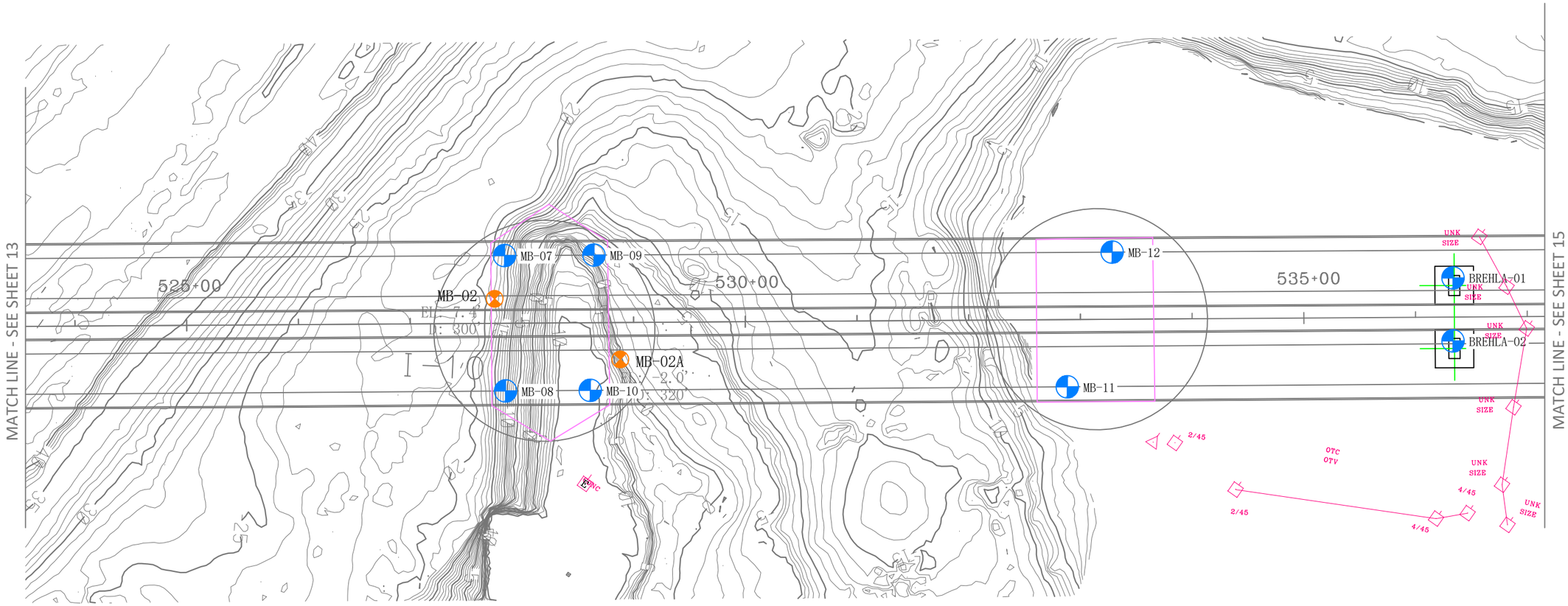
MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 13

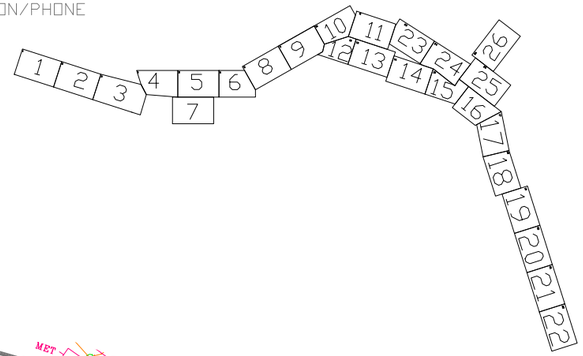
- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

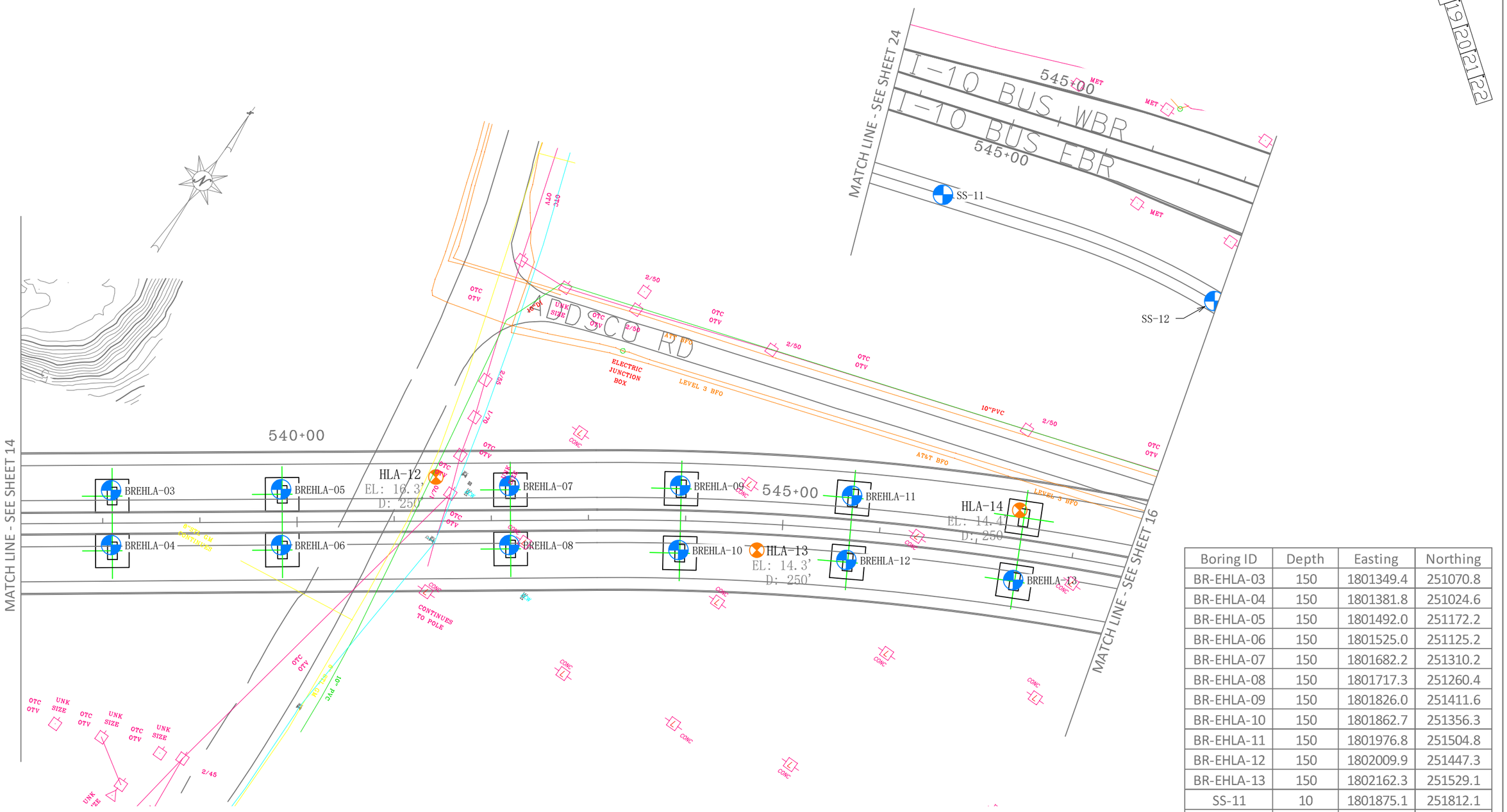


Boring ID	Depth	Easting	Northing
BR-EHLA-01	150	1801206.2	250970.2
BR-EHLA-02	150	1801238.6	250924.0
MB-07	350	1800500.0	250498.3
MB-08	350	1800570.4	250399.7
MB-09	350	1800565.3	250544.7
MB-10	350	1800632.2	250443.8
MB-11	250	1800979.7	250691.9
MB-12	250	1800943.2	250813.6



- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX

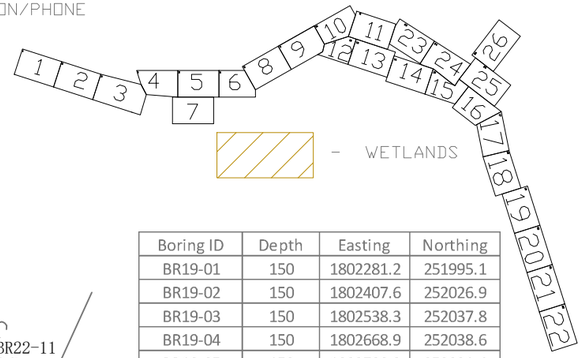




Boring ID	Depth	Easting	Northing
BR-EHLA-03	150	1801349.4	251070.8
BR-EHLA-04	150	1801381.8	251024.6
BR-EHLA-05	150	1801492.0	251172.2
BR-EHLA-06	150	1801525.0	251125.2
BR-EHLA-07	150	1801682.2	251310.2
BR-EHLA-08	150	1801717.3	251260.4
BR-EHLA-09	150	1801826.0	251411.6
BR-EHLA-10	150	1801862.7	251356.3
BR-EHLA-11	150	1801976.8	251504.8
BR-EHLA-12	150	1802009.9	251447.3
BR-EHLA-13	150	1802162.3	251529.1
SS-11	10	1801875.1	251812.1
SS-12	10	1802166.6	251883.1

MOBILE RIVER BRIDGE BORING LAYOUT

- EXISTING BORINGS 2014-2015
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- PLANNED BORING
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- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



- WETLANDS

MATCH LINE - SEE SHEET 25

MATCH LINE - SEE SHEET 25

MATCH LINE - SEE SHEET 15

MATCH LINE - SEE SHEET 17

ET RAMP B

ET RAMP C

ET RAMP A

I-10 BUS WBR

I-10 BUS EBR

BRIDGE 19

BRIDGE 20

BRIDGE 21

BRIDGE 24

BR19-01
BR19-02
BR19-03
BR19-04
BR19-05
BR19-06
BR19-07
BR19-08
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BR24-05
BR24-06
BREHLA-14
BREHLA-15
BREHLA-16
BREHLA-17
BREHLA-18
BREHLA-19
BREHLA-20
BREHLA-21
BREHLA-22
BREHLA-23
BREHLA-24
BREHLA-25
SS-13

HLA-16
EL: 7.6'
D: 250'

HLA-17
EL: 3.8'
D: 250'

HLA-18
EL: 3.9'
D: 3.4'

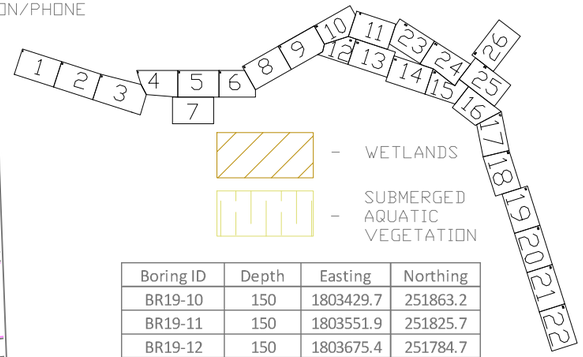
HLA-18A
EL: 3.7'
D: 250'

550+00
555+00
560+00
125+00
230+00

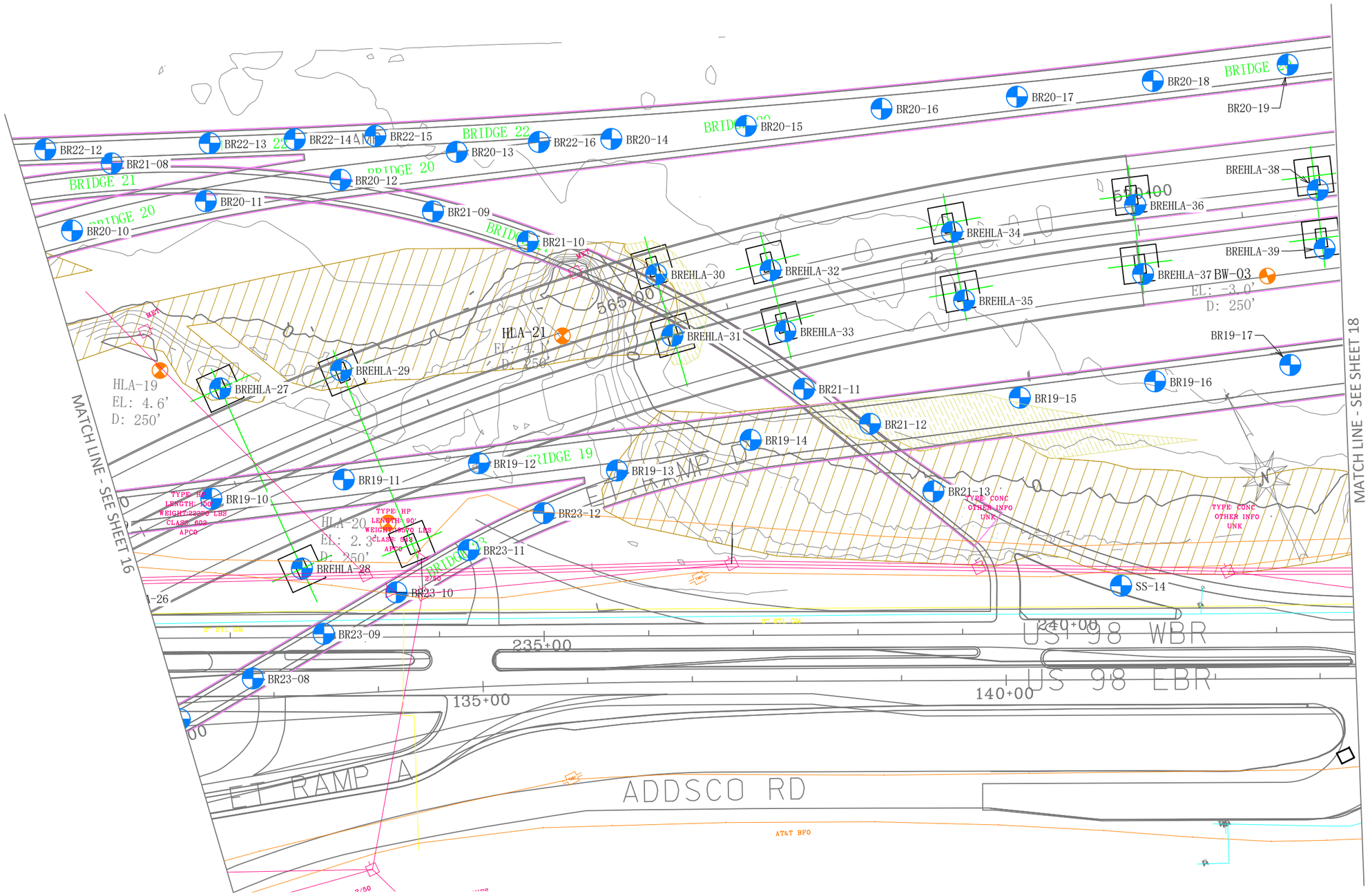
Boring ID	Depth	Easting	Northing
BR19-01	150	1802281.2	251995.1
BR19-02	150	1802407.6	252026.9
BR19-03	150	1802538.3	252037.8
BR19-04	150	1802668.9	252038.6
BR19-05	150	1802799.3	252031.4
BR19-06	150	1802928.6	252010.4
BR19-07	150	1803055.9	251983.5
BR19-08	150	1803181.2	251948.8
BR19-09	150	1803298.4	251897.4
BR20-01	150	1802269.0	252056.7
BR20-02	150	1802393.6	252090.1
BR20-03	150	1802520.3	252120.2
BR20-04	150	1802646.1	252150.0
BR20-05	150	1802775.7	252163.8
BR20-06	150	1802897.6	252175.2
BR20-07	150	1803027.1	252183.2
BR20-08	150	1803158.0	252181.6
BR20-09	150	1803289.2	252173.1
BR21-01	150	1802827.5	252205.4
BR21-02	150	1802919.1	252226.0
BR21-03	150	1803012.0	252239.8
BR21-04	150	1803105.7	252245.5
BR21-05	150	1803200.2	252240.8
BR21-06	150	1803293.5	252228.9
BR22-09	150	1803211.8	252326.6
BR22-10	150	1803280.4	252296.2
BR22-11	150	1803349.8	252266.9
BR23-01	150	1802725.9	251912.3
BR23-02	150	1802794.3	251870.9
BR23-03	150	1803002.4	251751.3
BR23-04	150	1803076.3	251720.7
BR23-05	150	1803153.3	251698.9
BR23-06	150	1803232.4	251686.7
BR24-01	150	1802379.2	251982.1
BR24-02	150	1802477.5	251964.2
BR24-03	150	1802571.7	251930.5
BR24-04	150	1802660.8	251884.2
BR24-05	150	1802746.2	251832.0
BR24-06	150	1802916.2	251709.1
BR-EHLA-14	150	1802293.6	251662.6
BR-EHLA-15	150	1802319.5	251601.4
BR-EHLA-16	150	1802439.6	251780.3
BR-EHLA-17	150	1802480.8	251664.0
BR-EHLA-18	150	1802645.6	251716.6
BR-EHLA-19	150	1802776.9	251924.2
BR-EHLA-20	150	1802827.5	251762.8
BR-EHLA-21	150	1802866.0	251852.4
BR-EHLA-22	150	1802992.2	251810.0
BR-EHLA-23	150	1803093.8	251907.2
BR-EHLA-24	150	1803109.1	251772.0
BR-EHLA-25	150	1803236.7	251839.6
SS-13	10	1802464.0	251844.0

MOBILE RIVER BRIDGE BORING LAYOUT

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



- WETLANDS
- SUBMERGED AQUATIC VEGETATION

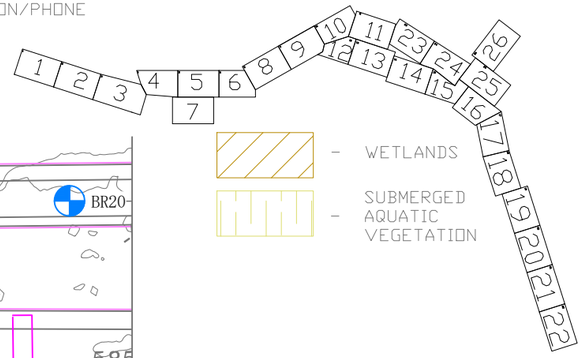


Boring ID	Depth	Easting	Northing
BR19-10	150	1803429.7	251863.2
BR19-11	150	1803551.9	251825.7
BR19-12	150	1803675.4	251784.7
BR19-13	150	1803791.8	251722.0
BR19-14	150	1803919.7	251694.0
BR19-15	150	1804169.6	251620.6
BR19-16	150	1804293.2	251579.5
BR19-17	150	1804416.7	251538.5
BR20-10	150	1803418.7	252151.8
BR20-11	150	1803546.3	252122.8
BR20-12	150	1803671.5	252086.2
BR20-13	150	1803783.3	252062.9
BR20-14	150	1803922.1	252010.9
BR20-15	150	1804043.8	251967.3
BR20-16	150	1804168.0	251926.7
BR20-17	150	1804290.0	251881.9
BR20-18	150	1804413.8	251840.1
BR20-19	150	1804537.0	251799.1
BR21-07	150	1803385.0	252207.0
BR21-08	150	1803480.4	252193.7
BR21-09	150	1803738.5	252021.1
BR21-10	150	1803808.1	251956.5
BR21-11	150	1803986.6	251716.3
BR21-12	150	1804029.4	251659.2
BR21-13	150	1804056.7	251574.9
BR22-12	150	1803428.7	252232.9
BR22-13	150	1803573.3	252171.0
BR22-14	150	1803648.4	252139.9
BR22-15	150	1803719.5	252109.9
BR22-16	150	1803858.3	252037.8
BR23-07	150	1803312.4	251685.5
BR23-08	150	1803392.2	251690.9
BR23-09	150	1803471.6	251700.5
BR23-10	150	1803551.3	251706.8
BR23-11	150	1803631.0	251714.0
BR23-12	150	1803711.0	251715.1
BR-EHLA-26	150	1803292.4	251822.5
BR-EHLA-27	150	1803482.3	251954.9
BR-EHLA-28	150	1803479.5	251765.9
BR-EHLA-29	150	1803594.3	251921.3
BR-EHLA-30	150	1803905.7	251875.6
BR-EHLA-31	150	1803894.6	251815.9
BR-EHLA-32	150	1804006.2	251832.4
BR-EHLA-33	150	1803994.1	251773.8
BR-EHLA-34	150	1804178.5	251791.5
BR-EHLA-35	150	1804161.1	251727.4
BR-EHLA-36	150	1804347.9	251740.0
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SS-14	10	1804180.3	251416.7

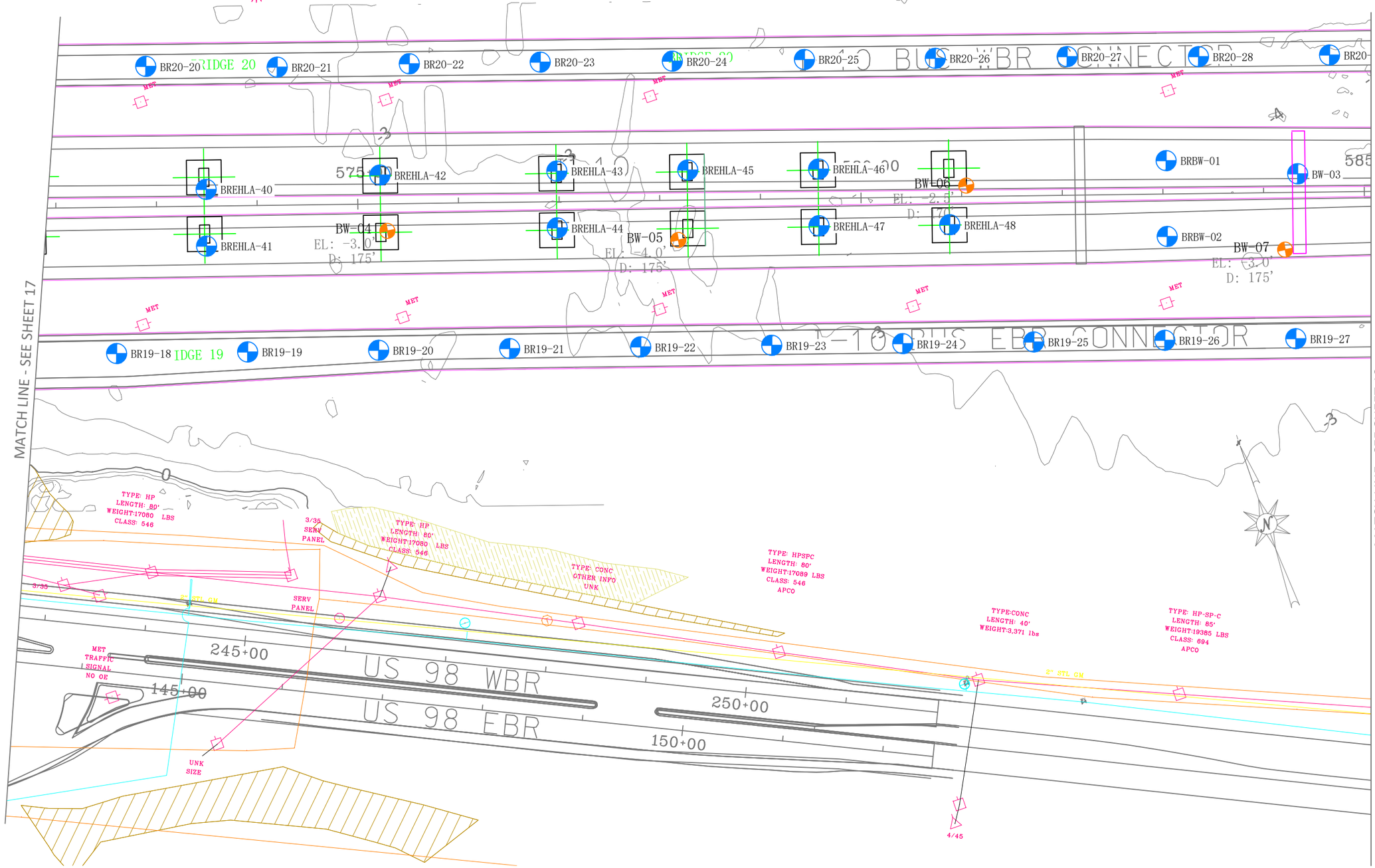
MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 17

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



- WETLANDS
- SUBMERGED AQUATIC VEGETATION

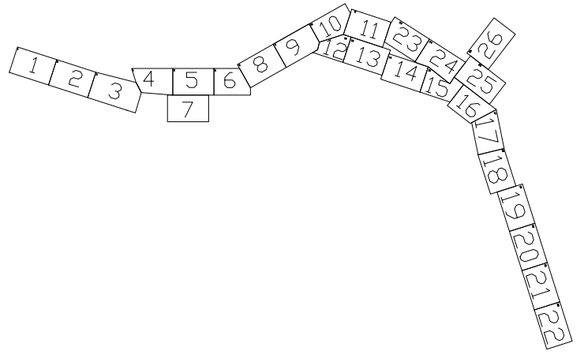


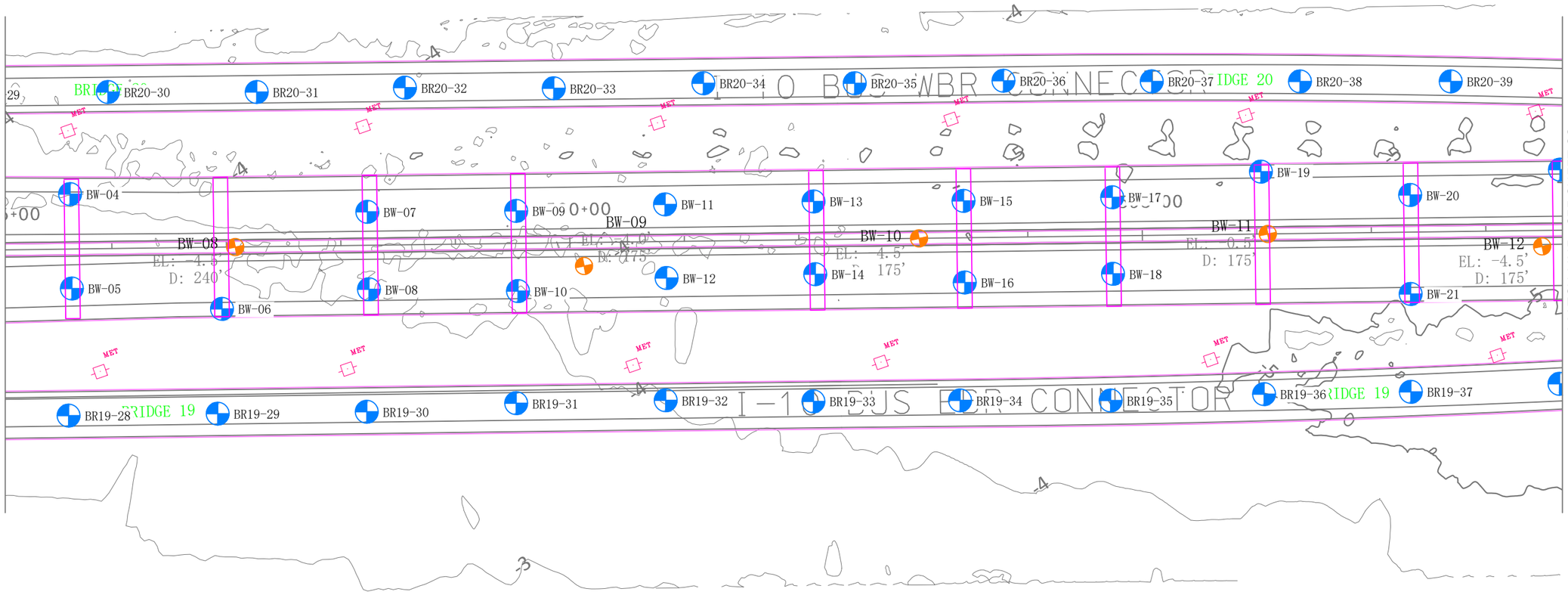
Boring ID	Depth	Easting	Northing
BR19-18	150	1804540.2	251497.4
BR19-19	150	1804663.8	251456.4
BR19-20	150	1804787.3	251415.4
BR19-21	150	1804910.9	251374.3
BR19-22	150	1805034.4	251333.3
BR19-23	150	1805158.0	251292.3
BR19-24	150	1805281.5	251251.2
BR19-25	150	1805405.1	251210.2
BR19-26	150	1805528.6	251169.2
BR19-27	150	1805652.2	251128.1
BR20-20	150	1804661.0	251757.6
BR20-21	150	1804784.1	251714.2
BR20-22	150	1804909.2	251674.4
BR20-23	150	1805032.7	251633.4
BR20-24	150	1805157.0	251591.4
BR20-25	150	1805281.6	251550.0
BR20-26	150	1805404.8	251508.5
BR20-27	150	1805529.2	251467.2
BR20-28	150	1805652.5	251424.5
BR-EHLA-38	150	1804511.9	251678.5
BR-EHLA-39	150	1804493.8	251625.1
BR-EHLA-40	150	1804677.7	251622.5
BR-EHLA-41	150	1804659.6	251569.1
BR-EHLA-42	150	1804845.5	251579.4
BR-EHLA-43	150	1805012.9	251525.7
BR-EHLA-44	150	1804994.8	251472.2
BR-EHLA-45	150	1805136.1	251484.1
BR-EHLA-46	150	1805259.3	251442.5
BR-EHLA-47	150	1805241.2	251389.1
BR-EHLA-48	150	1805364.4	251347.6
BW-01	150	1805588.3	251337.4
BW-02	150	1805564.7	251265.9
BW-03	150	1805707.5	251282.3

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 18

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING



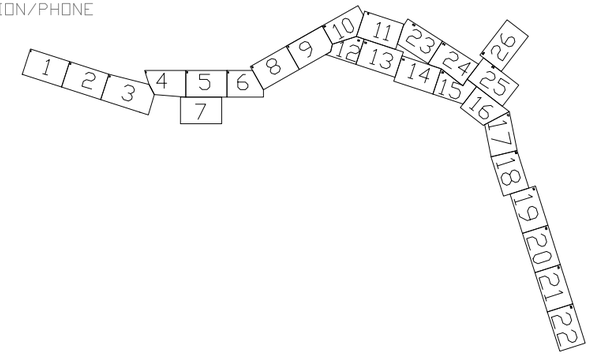


Boring ID	Depth	Easting	Northing
BR19-28	150	1805775.7	251087.1
BR19-29	150	1805899.3	251046.1
BR19-30	150	1806022.8	251005.0
BR19-31	150	1806148.7	250969.4
BR19-32	150	1806272.9	250929.1
BR19-33	150	1806394.5	250886.0
BR19-34	150	1806515.8	250844.9
BR19-35	150	1806640.0	250801.8
BR19-36	150	1806768.4	250763.2
BR19-37	150	1806890.2	250723.2
BR20-29	150	1805776.0	251383.5
BR20-30	150	1805900.5	251342.7
BR20-31	150	1806023.4	251300.2
BR20-32	150	1806147.0	251261.5
BR20-33	150	1806269.6	251218.4
BR20-34	150	1806394.5	251179.8
BR20-35	150	1806519.4	251136.6
BR20-36	150	1806642.9	251096.2
BR20-37	150	1806765.1	251053.2
BR20-38	150	1806887.4	251010.9
BR20-39	150	1807011.7	250967.8
BW-04	150	1805840.2	251269.4
BW-05	150	1805814.7	251191.0
BW-06	150	1805932.8	251131.3
BW-07	150	1806080.5	251169.8
BW-08	150	1806059.6	251105.5
BW-09	150	1806203.5	251128.0
BW-10	150	1806182.2	251061.4
BW-11	150	1806328.3	251090.9
BW-12	150	1806308.5	251029.7
BW-13	150	1806451.6	251050.9
BW-14	150	1806432.3	250990.4
BW-15	150	1806575.6	251008.5
BW-16	150	1806553.3	250940.8
BW-17	150	1806699.3	250969.0
BW-18	150	1806678.2	250905.6
BW-19	150	1806829.4	250947.6
BW-20	150	1806945.9	250885.8
BW-21	150	1806918.0	250803.9

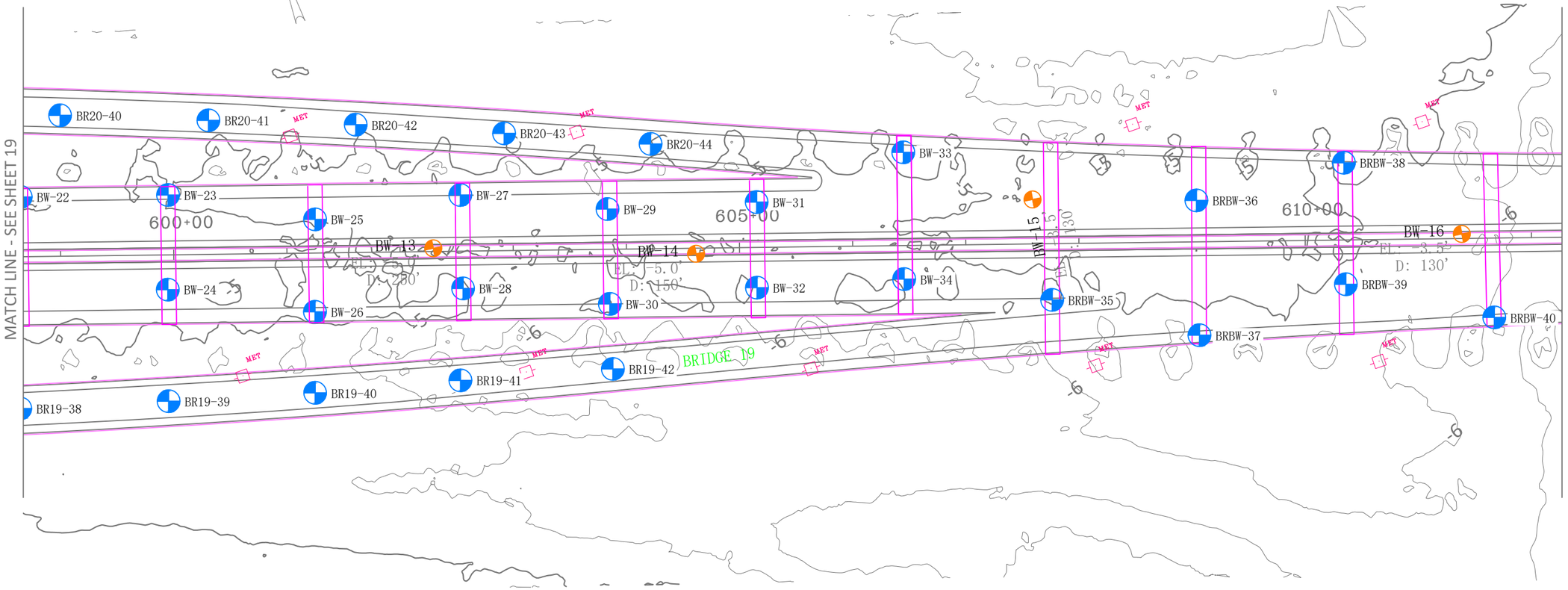
MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 19

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX





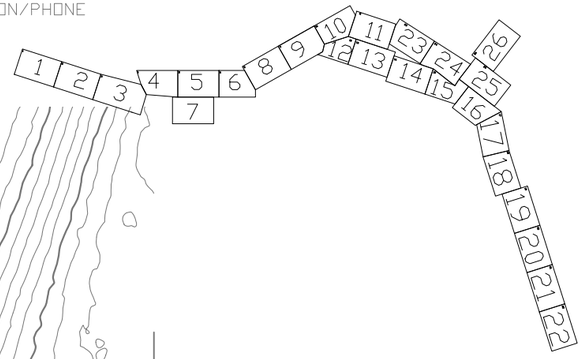


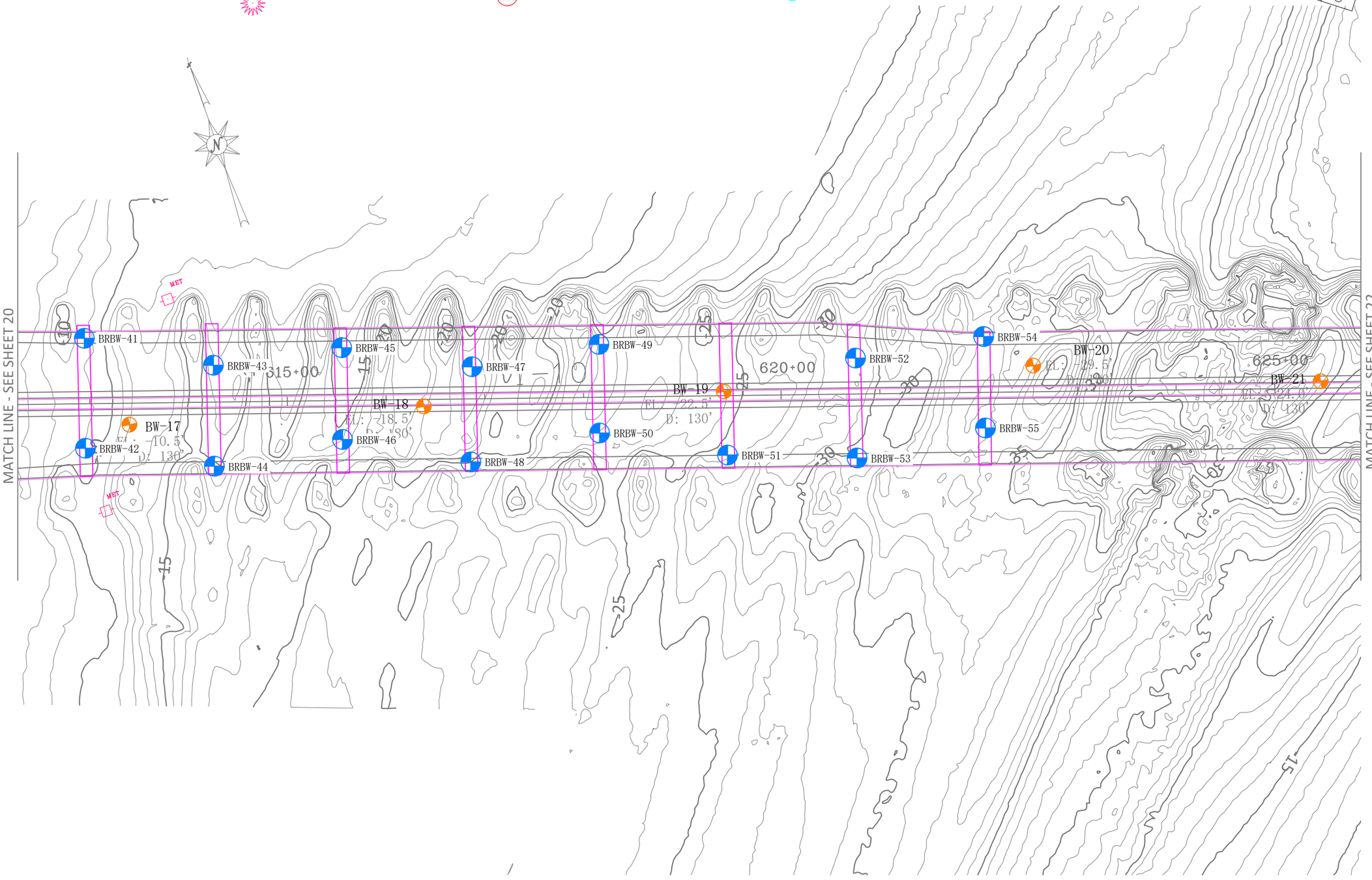
Boring ID	Depth	Easting	Northing
BR19-38	150	1807015.2	250687.3
BR19-39	150	1807141.2	250650.5
BR19-40	150	1807266.0	250615.1
BR19-41	150	1807390.9	250583.5
BR19-42	150	1807521.5	250549.0
BR20-40	150	1807133.1	250920.6
BR20-41	150	1807255.6	250873.5
BR20-42	150	1807377.3	250827.3
BR20-43	150	1807498.8	250777.2
BR20-44	150	1807618.1	250726.0
BW-22	150	1807076.7	250863.8
BW-23	150	1807200.3	250822.8
BW-24	150	1807172.7	250743.9
BW-25	150	1807316.0	250760.0
BW-26	150	1807289.2	250682.9
BW-27	150	1807444.3	250738.3
BW-28	150	1807419.7	250659.5
BW-29	150	1807563.2	250684.0
BW-30	150	1807537.8	250604.2
BW-31	150	1807689.8	250646.7
BW-32	150	1807665.4	250575.2
BW-33	150	1807826.6	250645.9
BW-34	150	1807790.7	250539.8
BW-35	150	1807908.3	250479.6
BW-36	150	1808057.6	250521.0
BW-37	150	1808021.1	250407.6
BW-38	150	1808191.6	250509.7
BW-39	150	1808158.1	250407.7
BW-40	150	1808272.5	250337.2

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 20

- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX





Boring ID	Depth	Easting	Northing
BW-41	150	1808438.0	250425.8
BW-42	150	1808402.6	250320.3
BW-43	150	1808552.5	250357.3
BW-44	150	1808520.0	250260.5
BW-45	150	1808681.1	250331.6
BW-46	150	1808651.5	250243.5
BW-47	150	1808799.6	250270.2
BW-48	150	1808766.8	250179.6
BW-49	150	1808928.2	250249.5
BW-50	150	1808899.7	250164.6
BW-51	150	1809014.7	250101.1
BW-52	150	1809169.2	250151.5
BW-53	150	1809137.7	250055.4
BW-54	150	1809299.0	250129.6
BW-55	150	1809270.4	250041.6

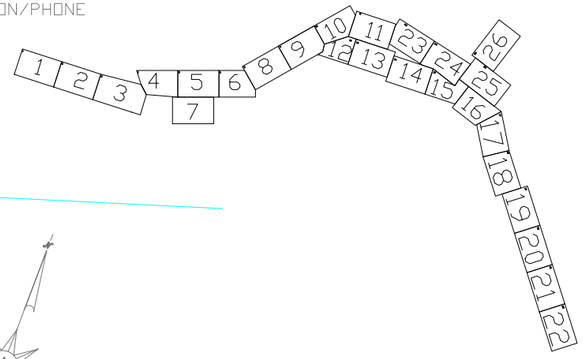
- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING

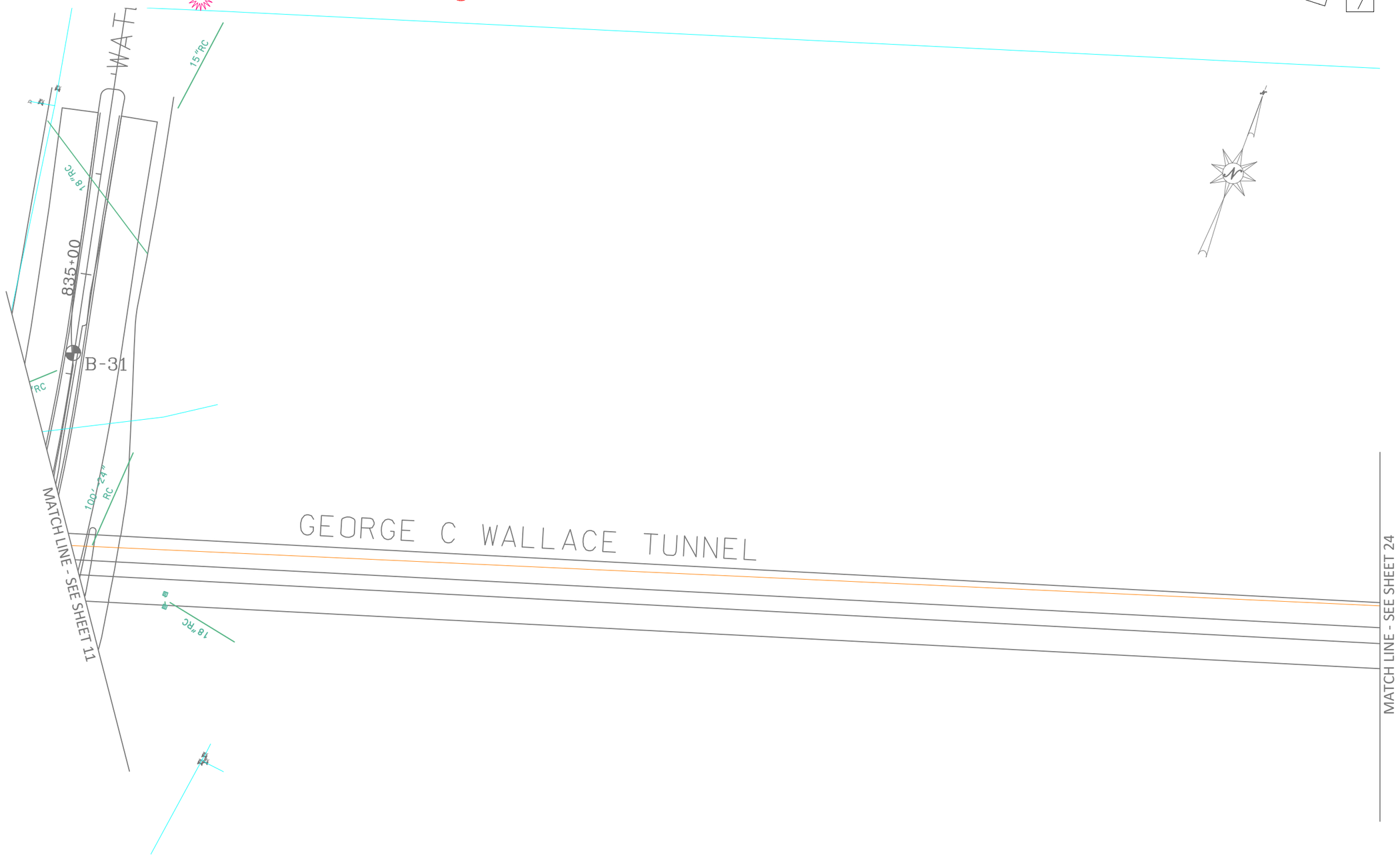
- EXISTING UTILITY POLES

- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE

- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT

- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



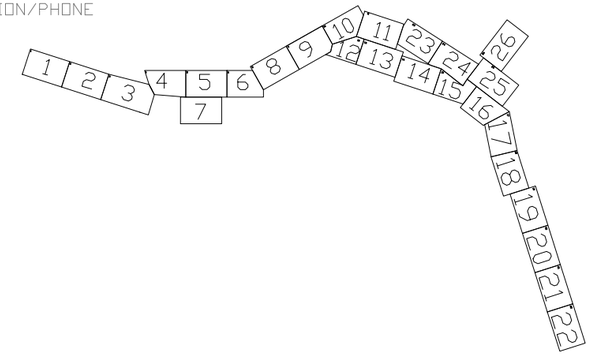


NO PLANNED BORINGS ON THIS SHEET

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 22

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



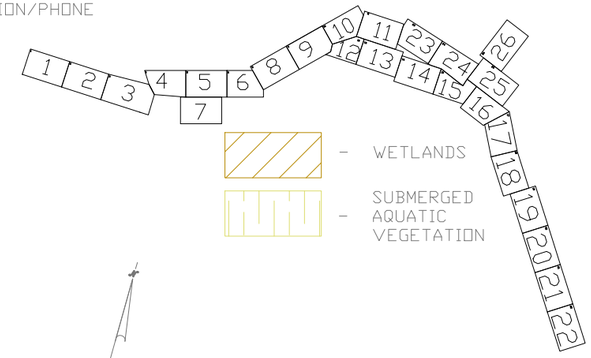


Boring ID	Depth	Easting	Northing
SS-10	10	1801589.5	251720.4

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 23

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX



- WETLANDS
- SUBMERGED AQUATIC VEGETATION

MATCH LINE - SEE SHEET 26

DUNLAP DR

US 98 WBR

US 98 EBR

BRIDGE 2

RAMP C

BR22-01
BR22-02
BR22-03
BR22-04
BR22-05
BR22-06
BR22-07
BR22-08

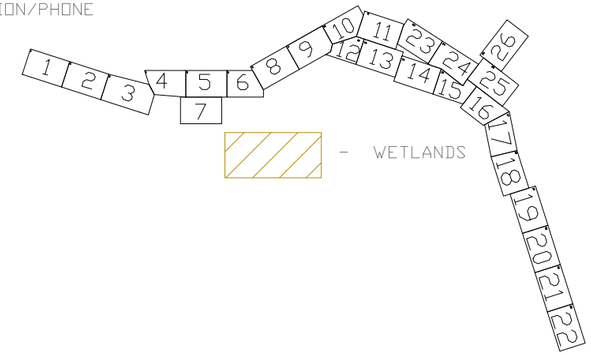
Boring ID	Depth	Easting	Northing
BR22-01	150	1802636.0	252579.9
BR22-02	150	1802704.8	252547.0
BR22-03	150	1802780.8	252515.2
BR22-04	150	1802855.6	252482.3
BR22-05	150	1802927.2	252451.6
BR22-06	150	1802999.0	252420.4
BR22-07	150	1803073.4	252387.1
BR22-08	150	1803138.6	252357.3

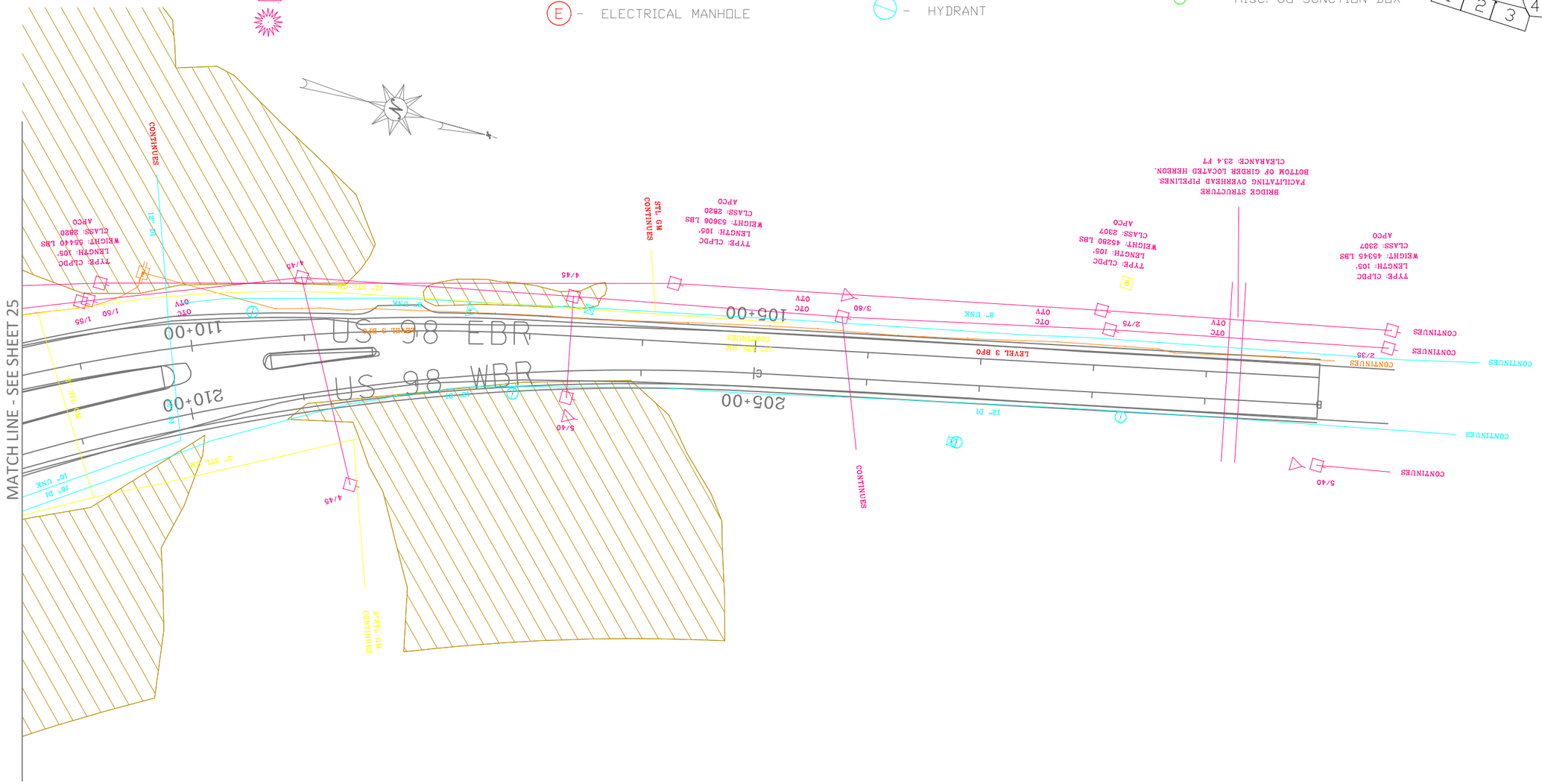
MATCH LINE - SEE SHEET 16

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 24

- EXISTING BORINGS 2014-2015
- EXISTING BORINGS 2017
- PLANNED BORING
- EXISTING UTILITY POLES
- EXISTING STORM WATER/CULVERT
- EXISTING SAN. SEWER
- EXISTING UG ELECTRIC
- ELECTRICAL MANHOLE
- EXISTING GAS
- EXISTING GASJUNCTION BOX
- EXISTING WATER
- HYDRANT
- EXISTING UG COMMUNICATION/PHONE
- EXISTING UG COMM. BOX
- MISC. UG JUNCTION BOX
- WETLANDS





NO PLANNED BORINGS ON THIS SHEET

MOBILE RIVER BRIDGE BORING LAYOUT

SHEET 25

APPENDIX B

SUBCONTRACT HEALTH, SAFETY, ENVIRONMENTAL PREQUALIFICATION INFORMATION

DRAFT

Subcontractor Health, Safety, Environmental Prequalification Information

1. Company Health, Safety, Environmental Program – to include, but not limited to the following
    a. Designated Safety Professional contact information and qualifications (CV)
    b. Daily pre-task planning expectations
    c. PPE expectations
    d. Policies covering:
        i. Working around (if applicable to scope):
            1. Contaminated materials
            2. Bodies of water
            3. Protected areas
        ii. Spill prevention / control
    e. Health, Safety, Environmental training program
    f. Injury Management Plan
2. Equipment Maintenance Program
3. Job Hazard Analysis (JHA) for all applicable tasks
    a. Geotechnical
        i. Exploratory boring
        ii. Cone Penetration Testing (CPT)
        iii. Test pits / trenches
        iv. Piezometers
        v. Geophysical
4. Lagging Safety Stats – US and Canada
    a. Past 3 years EMR – include EMR letters from WC provider
    b. Past 3 years OSHA citation / CCOHS direction history
    c. Past 3 years EPA violation history
5. Lagging Safety Stats – US only
    a. Past 3 years OSHA 300 Logs – Redacted to exclude personal details

12 Appendix B – Thompson Engineering Preliminary Investigation Report – Boring Location Figures

thompson
ENGINEERING

PRELIMINARY INVESTIGATION
ALABAMA DEPARTMENT OF TRANSPORTATION
PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE COUNTY, ALABAMA

JANUARY 31, 2017

Prepared for:

Alabama Department of Transportation
Bureau of Materials and Tests
3700 Fairground Road
Montgomery, Alabama 36610

PROJECT NO.: 15-1101-0043

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2/1/2017

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A THOMPSON HOLDINGS, INC. COMPANY

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1.4	Conclusions	2
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1.3	Results	2
1.4	Conclusions	2
1.5	Recommendations	2
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1.0 INTRODUCTION

The Alabama Department of Transportation (ALDOT) is planning to construct an I-10 bridge over the Mobile River in Mobile, Mobile County, Alabama. Thompson Engineering has completed the Preliminary Investigation at twelve (12) properties identified by ALDOT as potential hazardous materials sites (Figure 1). Authorization to proceed with the scope-of-services described herein was provided by Mr. Scott George, P.E. of the Alabama Department of Transportation (ALDOT) on April 16, 2015. The twelve properties are briefly described as follows:

- **Austal Facility**

  The site is located at the southeast corner of the Dunlap Drive and Addsco Road intersection in Mobile County, Alabama. The property is currently owned by Austal USA and is a ship building and repair facility. A portion of the property currently used for employee parking will be acquired by the ALDOT for bridge construction and right of way based upon the current proposed route.

- **Harrison Brothers Property**

  The site is located on the west side of Dunlap Drive at its intersection with Addsco Road in Mobile County, Alabama. The property is currently owned by Tomly Barge and is currently an unoccupied rental property. The property at one time was used as a barge repair and maintenance facility. The southern portion of the property which includes three surface impoundments will be impacted as part of the proposed I-10 Mobile River bridge construction and right of way.

- **Austal (Former Mobile Abrasives) Property**

  The site is located at 400 Dunlap Drive in Mobile County, Alabama. The property is currently owned by Austal USA and is a pier and vessel completion yard. The property has previously been occupied by Mobile Abrasives, Atlantic Marine, Clark Sand Company, and OCAL Inc. Past uses of the site reportedly included a sand and/or abrasive operation for over 17 years, fabricated pipe and pipe fitting manufacturing, and a scrap metal operation. The northern portion of the property will be impacted by the current proposed I-10 Mobile River bridge construction and right of way.

- **ALDOT (Former Bender) Property**

  The site is located at 257 Royal Street in Mobile County, Alabama. The property was purchased by the ALDOT in April 2013. The property was previously owned by Buffalo Marine Service and Bender Shipbuilding and used as office space. The property is currently undeveloped and unoccupied. The southern portion of the property is located within the current proposed I-10 Mobile River bridge project limits.

- **Buffalo Properties**

  The Buffalo properties include two site locations in Mobile County, Alabama. One site is located at the southwest corner of the Madison and Old Water Street intersection and the other is located directly east of the Madison and Old Water Street intersection. Both properties are currently owned by Buffalo Marine Service Inc. The property to the east is currently used by Buffalo Marine for their tug, tow, and barge fleet operation on the Mobile River. The property to the west is currently unoccupied and is undeveloped. Past uses of the sites are unknown. The northern portion of both properties will be impacted as part of the proposed I-10 Mobile River bridge construction and right of way.

- **J&U Properties**

  The J&U properties include two site locations in Mobile County, Alabama. One site is located at 350 Saint Emanuel Street and the other is located at 153 Canal Street. The property is currently owned by Mr. Clint Ulmer. The Canal Street site no longer has the building structure shown in the latest aerial photographs and is currently undeveloped and unoccupied. The Saint Emanuel site is currently a bail bond business. Past uses of the sites are unknown. Both sites are located within the proposed I-10 Mobile River bridge project limits.

- **GP Investments Property**

  The site is located at 354 Saint Emanuel Street in Mobile County, Alabama. The property is currently owned by GP Investments, LLC and leased as an attorney office space. The site has one office building. Past uses of the site are unknown. The site is located within the proposed I-10 Mobile River bridge project limits.

- **Nellena and Stokley Property**

  The site is located at 351 South Conception Street in Mobile County, Alabama. The property is currently owned by Freman Nellena and Sheila Stokley and is a bail bond business. The site at one time operated as a fuel service station. While performing work, the owner reported that the USTs were no longer on site and believed them to have been removed at least 20 years ago. The fuel lines are believed to be still present. The site is located within the proposed I-10 Mobile River bridge project limits.

- **Irwin (Former Rogers) Property**

  The site is located at 358 Saint Emanuel Street in Mobile County, Alabama. The property is currently owned by David Irwin and is a bail bond business. Past uses of the site are unknown. The western portion of the site is located within the proposed I-10 Mobile River bridge project limits.

- **Hardee Property**

  The site is located at 363 Conception Street in Mobile County, Alabama. The property is currently owned by Hardee Lands LTD and is used as a vehicle tow and junk yard. A cell tower is located within the center of the property. Past uses of the site are unknown.

The western portion of the site including the cell tower is located within the proposed I-10 Mobile River bridge project limits.

- **C.E. LLC Properties**

  The C.E. LLC Properties consist of 11 parcels located in Mobile County, Alabama. The parcels are bordered to the north by Madison Street, to the east by Royal Street, to the south by Canal Street, and to the west by Water Street. The property is currently owned by C.E. (Complete Equipment) LLC and is currently unoccupied and unused except for the three southwest parcels that are leased to a vehicle tow company. Past uses of the parcels included the Former National Linen Service located at 110 Canal Street and storage and office space used by Bender Shipbuilding located at 300 Royal Street. During the hazardous materials survey performed by ALDOT in 2005-2012, the then C.E. LLC owner, Mr. Barnett, stated that USTs were once present at the Former National Linen Service. Mr. Barnett stated that the USTs were removed and contaminated soil remediation was performed prior to the C.E. LLC's purchase of the National Linen Service. To Mr. Barnett's knowledge there was no remaining soil or groundwater contamination on the National Linen Service site. The hazardous survey also noted some asbestos on an old boiler inside the building. Portions of ten out of the eleven parcels are located within the proposed I-10 Mobile River bridge project limits.

- **Shell Station Property**

  The site is located at 559 Virginia Street in Mobile County, Alabama. The property is currently owned by Mr. Jamil Haifa and is an active fuel service station. There are currently four USTs and four pump islands located on-site. The northern portion of the site is located within proposed right of way of the newly designed interchange at Virginia Street which is associated with the proposed I-10 Mobile River bridge.

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson
ENGINEERING

FIGURE 1
VICINITY MAP

LEGEND

- 1 - Austal Facility
- 2 - Harrison Brothers Property
- 3 - Austal (Former Mobile Abrasives) Property
- 4 - ALDOT (Former Bender) Property
- 5 - Buffalo Property
- 6 - J & U Properties
- 7 - GP Investments Property
- 8 - Nellena & Stokley Property
- 9 - Irwin (Former Rogers) Property
- 10 - Hardee Property
- 11 - C.E. LLC Properties
- 12 - Shell Station Properties
- Parcel Line
- Project Limit

N
W E
S

1:9,000

400 0 400 Feet

1 inch = 750 feet

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile County Revenue Commissioner Parcel Lines, April 2012 - NOT A SURVEY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SD\mxd\GIS\MXD\OVERALL_FIG1_LND(11x17).mxd

2.0 LOCATION AND SETTING

2.1 Geographic Location

Figure 1 depicts the location of the sites within the proposed I-10 Mobile River Bridge project limits.

2.2 Geologic Setting

The project sites are located in the East Gulf Coastal Plain physiographic section, Alluvial-Deltaic Plain District and Coastal Lowlands District. The Alluvial-Deltaic Plain District, which consists of alluvial and terrace deposits from the rivers, are areas with very little relief, and the surface topography ranges in altitude from 100 feet to sea level. Coastal Lowlands District areas are characterized by flat to gently undulating, locally swampy plains underlain by terrigenous deposits of Holocene and late Pleistocene age. They include the mainland plain indented by many tidal streams and fringed by tidal marshes and barrier islands. The landward edge of the district is defined by the base of the Pamlico marine scarp at 25 to 30 feet of elevation. The barrier islands and tidal marshes in the area are undergoing continual modification by erosion and deposition.

Geologic units that occur within the study area range from Tertiary to Quaternary age. Alluvial and terrace deposits of Quaternary Age overlie Tertiary age deposits adjacent to the flood plains of the larger streams and river and along the coastal areas, such as Mobile Bay.

Geologic units of Tertiary Age that are sources of potable groundwater are the Miocene Series Undifferentiated and the Citronelle Formation. The Miocene Series outcrops in central and northern Mobile and Baldwin Counties. The Miocene Series consists of sedimentary deposits of marine and estuarine origin. The sediments consist mainly of laminated to thinly-bedded clays, sands, and sandy clays. The sands range from fine- to coarse-grained and are locally cross bedded. In outcrops, the sands weather to a variety of colors, some distinctly mottled. At some exposures, beds of sand contain gravel and petrified plant fossils, and clays contain carbonized leaf remains.

The Citronelle Formation of Pliocene age overlies the Miocene Series and crops out in central and southern parts of the study area. The formation, which is relatively thin in northern parts of the study area, is about 200 feet thick in the subsurface in the southern part of the study area. The sediments consist of gravelly sands and sandy clays. In many areas, lenses of sandy clay and clayey sand, which range in thickness from 5 to 15 feet, are interbedded with gravelly sand. Sediments along the base of the Citronelle Formation have high clay content, indicating that they were deposited in an estuarine environment, whereas, overlying sediments were deposited by sediment-laden streams.

Pleistocene and Holocene Series of Quaternary age deposits overlie Miocene and Pliocene sediments. Alluvial, low terrace and coastal deposits represent complex beach, dune, lagoonal, estuarine, and deltaic depositional environments. The deposits consist of very fine- to coarse-grained sand that is gravelly in many exposures. Sandy clay is interbedded

with the sand at some exposures. The thickness of the alluvial, low terrace and coastal deposits are estimated to range from 0 to 200 feet, based on the first occurrence of coarse siliclastic sediments.

The Quaternary sand and gravel beds represent buried channel deposits. The width and depth are similar to that of the present river bed sediments. The length of individual sand and gravel beds probably ranges from a few hundred to a few thousand feet. These buried channel deposits are surrounded by silt and clay sediments similar to those being deposited on the present flood plain of the river.

2.3 Regional and Site Hydrogeology

The Pliocene-Miocene and the alluvial-coastal aquifer are the major aquifers in the study area. Although the aquifers are lithologically different, they are hydraulically connected and generally respond to stresses as a single aquifer.

Groundwater in the Pliocene-Miocene aquifer occurs in beds of sand and gravel which are lenticular in shape and of limited lateral extent. The sand and gravel beds in the Citronelle Formation and those at shallow depths in the Miocene Series Undifferentiated are hydraulically connected to land surface; therefore, the aquifer is unconfined. At depth, clayey sediments in the Miocene Series are semi-confining which reduces vertical infiltration of water. Thus, the aquifer in deeper portions of the Miocene Series responds to short-term pumpage as a confined aquifer. Wells properly constructed in the Pliocene-Miocene aquifer yield from 0.5 to 2.0 million gallons per day (Mgal/d).

The alluvial-coastal aquifer is hydraulically connected to the Pliocene-Miocene aquifer. Properly constructed wells in the alluvial-coastal aquifer have the potential to yield from 0.5 to 1.0 Mgal/d. Most high-yield wells are completed in beds of sand and gravel that originate from coastal deposits and buried river sediments. The buried channels are surrounded by silty and clayey sediments that do not yield significant amounts of water, but do allow slow infiltration of water to the sand and gravel beds. Individual buried channels may be directly connected to the present channels of the Mobile River.

The source of recharge to the aquifers is rainfall, which averages 62 inches per year (in/yr) in the study area. About 28 in/yr of rainfall runs off during and immediately after storms; a small amount of rainfall infiltrates the subsurface as recharge to the aquifers; and the remainder is returned to the atmosphere by evaporation and transpiration of trees and other plants.

Most recharge to the major aquifers in Mobile County occurs within the boundaries of the study area and a small amount is contributed from Miocene outcrop areas to the north.

Groundwater discharges are primarily to streams, water bodies, and wells. Some of the larger groundwater pumping centers in the study area are the cities of Grand Bay, Fairview, Dauphin Island, Theodore, Kushla, LeMoyne, Citronelle, Mt. Vernon, Bayou La Batre, Saraland, and St. Elmo in Mobile County.

In addition to public water supply, substantial quantities of groundwater are used for irrigation. Mobile County has several chemical and paper factories and other industries that use large quantities of groundwater.

Large withdrawals of water from an aquifer often cause a depression in the potentiometric surface of the aquifer. The extent of the depression depends on the amount of water withdrawn and the water-bearing characteristics of the sediments. A large depression exists around the Prichard-Mobile area in Mobile County. Most of the groundwater withdrawals in this area are for industrial purposes. Other smaller depressions occur in the vicinity of some industries along the Mobile River in northern Mobile County. The effects of the depressions are localized because of their proximity to the Mobile River, which is hydraulically connected to the aquifers in the area. The Mobile River has an average annual discharge of about 70,000 cubic feet per second (ft3/s), which is more than adequate to recharge the aquifers as withdrawals occur. However, in tidal reaches of the Mobile River, the recharge could introduce saltwater into the aquifer.

Recharge areas for the major aquifers, which include the entire study area, are susceptible to surface contamination. The topography in the study area is flat to low rolling hills. This type of terrain minimizes surface runoff, allowing more time for water to infiltrate into the soil.

Areas that are highly susceptible to contamination from the surface are relatively flat terrain with very permeable soils. Many of these areas are used for intensive row-crop farming where pesticides are used extensively. Along the Mobile River in the northern part of Mobile County, chemical industries are potential sources of contamination to the groundwater. The regions of the study area that are not considered to be highly susceptible to surface contamination are where topographic relief is greater; this promotes increase surface runoff and dispersion and dilution of surface contaminants.

Regions underlain by the alluvial and coastal sediments generally are areas of groundwater discharge; this decreases the likelihood of a contaminant migrating into the deep groundwater system.

3.0 SUMMARY OF FINDINGS

Below is a summary of the analytical findings at each site. Please refer to each tab for site specific information including field methodologies, complete analytical results, conclusions, recommendations, etc.

- **Austal Facility**

  Two soil (2) and groundwater samples were collected at this site. VOCs, SVOCs, and PCBs were reported as non-detect in both soil and groundwater samples. Detectable concentrations of metals in soil and groundwater were reported at levels below ADEM and EPA regulatory screening values.

- **Harrison Brothers Property**

  Twenty-seven (27) soil samples and seven (7) groundwater samples were collected at this site. All soil samples collected for SVOCs and all groundwater samples collected for VOCs, SVOCs, and PCBs were reported as non-detect. Some metals specifically arsenic and chromium in soil and lead, nickel, and zinc in groundwater have detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values. The detected arsenic values in soils are within the range historically reported in Mobile County, Alabama. Chromium concentrations in soil exceeded the ADEM commercial screening level at one sampling location. Detectable concentrations of metals in groundwater were reported at levels below ADEM and EPA regulatory screening values.

- **Austal (Former Mobile Abrasives) Property**

  Two (2) soil samples were collected at this site. No groundwater samples were collected. VOCs, SVOCs, and PBCs were reported as non-detect in both soil samples collected. Arsenic and chromium in soil have detectable concentrations above EPA and/or ADEM industrial/commercial regulatory screening values. The arsenic and chromium levels in one sample exceeded typical "background" levels observed in Mobile County, Alabama. It is Thompson Engineering's opinion that the soils sampled may not have been native but instead composed of sandblasting material.

- **ALDOT (Former Bender) Property**

  Two (2) soil samples and one (1) groundwater sample were collected at this site. SVOCs in both soil samples collected and VOCs, SVOCs, and PCBs in the groundwater sample collected were reported as non-detect. PCB-1260, arsenic, and lead in one soil sample have detectable concentrations above EPA and/or ADEM industrial/commercial regulatory screening values. The detected arsenic value in soil is within the range historically reported in Mobile County, Alabama; however, the level of lead in one sample exceeded typical "background" levels observed in Mobile County, Alabama. The presence of PCB-1260 and the high level of lead indicates on-site contamination is present in the soil. Detectable concentrations of metals in groundwater were reported at levels below ADEM and EPA regulatory screening values.

- **Buffalo Properties**

  Four (4) soil and groundwater samples were collected at this site. SVOCs and PCBs in all four soil samples collected and VOCs, SVOCs, and PCBs in all four groundwater samples collected were reported as non-detect. Some metals specifically arsenic in soil and lead in groundwater have detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values. The detected arsenic values in soils are within the range historically reported in Mobile County, Alabama. The groundwater results suggest that elevated turbidity, i.e., fines and sediment inherent to the sample, contribute to a portion of the data results and not entirely the dissolved fraction of inorganics in groundwater.

- **J&U Properties**

  Three (3) soil samples were collected at this site. No groundwater samples were collected. VOCs and SVOCs were reported as non-detect in all three soil samples collected. Arsenic was detected above EPA and ADEM industrial/commercial regulatory screening values in one soil sample. The detected arsenic value in soil was within the range historically reported in Mobile County, Alabama.

- **GP Investments Property**

  One (1) soil sample was collected at this site. No groundwater samples were collected. VOCs and SVOCs were reported as non-detect in the soil sample collected. Detectable concentrations of metals in soil were reported at levels below ADEM and EPA regulatory screening values.

- **Nellena and Stokley Property**

  Four (4) soil samples and one (1) groundwater sample were collected at this site. SVOCs were in all four soil samples collected and SVOCs and VOCs in the groundwater sample were reported as non-detect. Arsenic in soil had detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values. The detected arsenic values in soil are within the range historically reported in Mobile County, Alabama. Detectable concentrations of metals in groundwater were reported at levels below ADEM and EPA regulatory screening values.

- **Irwin (Former Rogers) Property**

  One (1) soil sample was collected at this site. No groundwater samples were collected. VOCs and SVOCs were reported as non-detect in the soil sample collected. Detectable concentrations of metals in soil were reported at levels below ADEM and EPA regulatory screening values.

- **Hardee Property**

  Three (3) soil samples and one (1) groundwater sample were collected at this site. VOCs, SVOCs, and PCBs were reported as non-detect in the soil and groundwater samples collected. Arsenic in soil has detectable concentrations above EPA and ADEM

industrial/commercial regulatory screening values. The detected arsenic values in soil are within the range historically reported in Mobile County, Alabama. Detectable concentrations of metals in groundwater were reported at levels below ADEM and EPA regulatory screening values.

- **C.E. LLC Properties**

  Eleven (11) soil samples and six (6) groundwater samples were collected at this site. SVOCs and PCBs in the soil samples collected and VOCs, SVOCs, and PCBs in the groundwater samples collected were reported as non-detect. Some metals specifically arsenic in soil and arsenic and lead in groundwater have detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values. The detected arsenic values in soils are within the range historically reported in Mobile County, Alabama. The groundwater results suggest that elevated turbidity, i.e., fines and sediment inherent to the sample, contribute to a portion of the data results and not entirely the dissolved fraction of inorganics in groundwater.

- **Shell Station Property**

  Four (4) soil samples and one (1) groundwater sample were collected at this site. Some VOCs specifically ethylbenzene, m-xylene & p-xylene, and total xylenes had detectable concentrations above EPA and/or ADEM industrial/commercial regulatory screening values in soil. VOCs specifically benzene and o-xylene and SVOCs specifically 1 and 2-methylnaphthalenes and naphthalene had detectable concentrations above EPA and ADEM tap water regulatory screening values. Arsenic in soil and groundwater had detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values. The detected arsenic values in soil are within the range historically reported in Mobile County, Alabama. The detectable concentration of arsenic in groundwater may be a result of the elevated turbidity, i.e., fines and sediment inherent to the sample, contribute to a portion of the data results and not entirely the dissolved fraction of inorganics in groundwater.

AUSTAL FACILITY

1.1 Project Background

The Austal facility is located at 1 Dunlap Drive in Mobile, Alabama (Figures 1 and 2, Appendix A). The site is currently a ship building and repair facility. The ALDOT will be acquiring a portion of the employee parking lot for bridge construction and right of way. Surface elevations at the project site are approximately 15 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on May 18, 2015. Two borings (B-1/TW-1 and B-2/TW-2) were advanced on-site via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 12 feet below ground surface (bgs) by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from each boring from the ground surface to the top of the water table at approximately 11 feet bgs. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8082A), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, the borings were advanced an additional four feet into the water table and temporary 1-inch diameter piezometers (TW-1 and TW-2) were installed with five feet of 1-inch diameter schedule 40 PVC with 0.010 inch slotted screen. Following temporary well installation, groundwater samples were collected with the use of a peristaltic pump after first developing and purging the wells. During well development and purging, pH, temperature, specific conductivity, dissolved oxygen, and turbidity were collected after each well volume and measurements were recorded in a bound field log book. Each well was purged until the field parameters stabilized. The final well volume field measurements

are included in Appendix B.

Groundwater samples were collected in appropriate laboratory supplied containers. After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the COC and the containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Groundwater samples were submitted to the laboratory to be analyzed for the following chemical analyses: VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), PCBs (EPA Method 8082A) and metals (EPA Methods 6010B/7470A).

Upon completion of groundwater sampling procedures, the temporary wells were removed from the subsurface and all soil boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of sands. Soil boring logs and temporary well construction details are presented in Appendix C.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, PCBs, and metals for soil and groundwater is included in Appendix D (Log No.: 400-105842-1). The soil analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBs in both soil samples collected. Aluminum and lead were reported in both soil samples but at levels below the ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). Chromium was reported in soil sample B-1 but below the ADEM PSVs. There are no established EPA RSLs for chromium. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

The groundwater analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBS in both groundwater samples collected. Lead was reported in both groundwater samples but at levels below the ADEM PSV and the EPA Maximum Contaminant Level (MCL). The groundwater analytical results compared to the ADEM PSVs and EPA RSLs or MCLs (if available) are provided in Table 2.

1.4 Conclusions

- Detectable concentrations of aluminum and lead were reported in both soil samples but at levels below ADEM and EPA regulatory screening values. Chromium was also reported in soil sample B-1 and was below ADEM regulatory screening levels.

- Groundwater was encountered during the advancement of both soil borings at a depth of approximately 11 feet below ground surface. Detectable concentrations of lead were reported in both groundwater samples collected but at levels below ADEM and EPA regulatory screening values.

1.5 Recommendations

Based on review of the analytical results of the soil and groundwater samples collected on May 18, 2015, it is Thompson Engineering's opinion that no further investigation activities are required at this time.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
Austal Facility
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							B-1 0'-11'	B-2 0'-11'
Volatile Organics GC/MS								
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0055	<0.0068
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0055	<0.0068
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0055	<0.0068
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0055	<0.0068
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0055	<0.0068
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0055	<0.0068
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0055	<0.0068
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0055	<0.0068
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0055	<0.0068
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0055	<0.0068
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.028	<0.034
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<0.028	<0.034
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0055	<0.0068
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0055*	<0.0068*
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0055	<0.0068
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0055	<0.0068
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0055	<0.0068
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0055	<0.0068
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0055	<0.0068
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0055	<0.0068
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0055	<0.0068
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0055	<0.0068
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0055	<0.0068
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0055	<0.0068
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0055	<0.0068
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0055	<0.0068
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0055	<0.0068
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.028	<0.034
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.028	<0.034
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.017	<0.021
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0055	<0.0068
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0055	<0.0068
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0055	<0.0068
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0055	<0.0068
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0055	<0.0068
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0055	<0.0068
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0055	<0.0068
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0055	<0.0068
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0055	<0.0068

The data presented is a summary of the results of samples collected on May 18, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
Austal Facility
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							B-1 0'-11'	B-2 0'-11'
Semivolatile Organics								
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.350	<0.420
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.350	<0.420
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.350	<0.420
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.420
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.350	<0.420
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.420
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.350	<0.420
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.350	<0.420
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.350	<0.420
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.350	<0.420
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.350	<0.420
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.350	<0.420
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.420
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.350	<0.420
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.350	<0.420
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.350	<0.420
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.350	<0.420
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.350	<0.420
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.0	<1.3
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.350	<0.420
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.350	<0.420
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.350	<0.420
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.350	<0.420
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.350	<0.420
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.350	<0.420
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.350	<0.420
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.350	<0.420
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.350	<0.420
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.350	<0.420
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.350	<0.420
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.350	<0.420
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.350	<0.420
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.350	<0.420
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.350	<0.420
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.350	<0.420
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.350	<0.420
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.350	<0.420
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.350	<0.420
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.350	<0.420
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.350	<0.420
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.350	<0.420
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.350	<0.420
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.350	<0.420
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.350	<0.420
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.350	<0.420
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.700	<0.840
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.350	<0.420
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.350	<0.420
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.700	<0.840
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.350	<0.420
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.350	<0.420
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.350	<0.420
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.0	<1.3
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.350	<0.420
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.350	<0.420
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.350	<0.420
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.350	<0.420
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.350	<0.420
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.350	<0.420
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.350	<0.420
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.350	<0.420
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.350	<0.420
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.350	<0.420
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.350	<0.420
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.350	<0.420

The data presented is a summary of the results of samples collected on May 18, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil
(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.
mg/kg indicates milligrams per kilogram.

Table 1c
Soil Analytical Results
PCB Arochlors
Austal Facility
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							B-1 0'-11'	B-2 0'-11'
PCB Arochlors								
PCB-1016	12674-11-2	mg/kg	0.41	5.1	0.39	21	<0.009	<0.011
PCB-1221	11104-28-2	mg/kg	0.20	0.83	0.22	0.74	<0.009	<0.011
PCB-1232	11141-16-5	mg/kg	0.17	0.72	0.22	0.74	<0.009	<0.011
PCB-1242	53469-21-9	mg/kg	0.23	0.95	0.22	0.74	<0.009	<0.011
PCB-1248	12672-29-6	mg/kg	0.23	0.95	0.22	0.74	<0.009	<0.011
PCB-1254	11097-69-1	mg/kg	0.12	0.97	0.22	0.74	<0.009	<0.011
PCB-1260	11096-82-5	mg/kg	0.24	0.99	0.22	0.74	<0.009	<0.011

The data presented is a summary of the results of samples collected on May 18, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil
(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil
(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.
mg/kg indicates milligrams per kilogram.

Table 1d
Soil Analytical Results
Metals
Austal Facility
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[(1)]	EPA Industrial[(2)]	ADEM Residential[(3)]	ADEM Commercial[(4)]	Sample Location ID	
							B-1 0'-11'	B-2 0'-11'
Metals								
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	420 F1	280
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<5.2	<6.3
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	<0.52	<0.63
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.31	<0.38
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.52	<0.63
Chromium	7440-47-3	mg/kg	None	None	30	64	1.4	<1.3
Copper	7440-50-8	mg/kg	310	4700	310	4100	<1.0	<1.3
Lead	7439-92-1	mg/kg	400	800	400	800	1.3	1.4
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	<0.017	<0.020
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	<0.52	<0.63
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.0	<1.3
Silver	7440-22-4	mg/kg	39	580	39	510	<0.52	<0.63
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.0	<1.3
Zinc	7440-66-6	mg/kg	2300	35000	2,300	100000	<2.1	<2.5

The data presented is a summary of the results of samples collected on May 18, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

F1 = MS and/or MSD Recovery is outside acceptance limits.

Table 2a
Groundwater Analytical Results
Volatile Organic Compounds
Austal Facility
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID	
					TW-1	TW-2
Volatile Organics GC/MS						
1,1,1-Trichloroethane	71-55-6	ug/L	200[3]	200	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.076	0.055	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	ug/L	5[3]	5	<5.0	<5.0
1,1-Dichloroethane	75-34-3	ug/L	2.8	81	<1.0	<1.0
1,1-Dichloroethene	75-35-4	ug/L	7[3]	7	<1.0	<1.0
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<1.0	<1.0
1,2-Dichloroethane	107-06-2	ug/L	5[3]	5	<1.0	<1.0
1,2-Dichloropropane	78-87-5	ug/L	5[3]	5	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	ug/L	None	18	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<1.0	<1.0
2-Hexanone	591-78-6	ug/L	3.8[3]	None	<25	<25
Acetone	67-64-1	ug/L	1400	550	<25	<25
Benzene	71-43-2	ug/L	5[3]	5	<1.0	<1.0
Bromoform	75-25-2	ug/L	80[3]	80	<5.0	<5.0
Bromomethane	74-83-9	ug/L	0.75	0.87	<1.0	<1.0
Carbon disulfide	75-15-0	ug/L	81	100	<1.0	<1.0
Carbon tetrachloride	56-23-5	ug/L	5[3]	5	<1.0	<1.0
Chlorobenzene	108-90-7	ug/L	100[3]	100	<1.0	<1.0
Chlorodibromomethane	124-48-1	ug/L	80[3]	None	<1.0	<1.0
Chloroethane	75-00-3	ug/L	2100	4.6	<1.0	<1.0
Chloroform	67-66-3	ug/L	80[3]	80	<1.0	<1.0
Chloromethane	74-87-3	ug/L	19	1.6	<1.0	<1.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70[3]	70	<1.0	<1.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0	<5.0
Dichlorobromomethane	75-27-4	ug/L	80[3]	None	<1.0	<1.0
Ethylbenzene	100-41-4	ug/L	700[3]	700	<1.0	<1.0
m-Xylene & p-Xylene	1330-20-7	ug/L	10000[3]	10000	<5.0	<5.0
2-Butanone (MEK)	78-93-3	ug/L	560	700	<25	<25
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	630	200	<25	<25
Methylene chloride	75-09-2	ug/L	5.0[3]	5	<5.0	<5.0
o-Xylene	95-47-6	ug/L	19	19	<5.0	<5.0
Styrene	100-42-5	ug/L	100[3]	100	<1.0	<1.0
Tetrachloroethene	127-18-4	ug/L	5.0[3]	5	<1.0	<1.0
Toluene	108-88-3	ug/L	100[3]	1000	<1.0	<1.0
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100[3]	100	<1.0	<1.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0	<5.0
Trichloroethene (TCE)	79-01-6	ug/L	5.0[3]	5	<1.0	<1.0
Vinyl chloride	75-01-4	ug/L	2.0[3]	2	<1.0	<1.0
Xylenes (Total)	1330-20-7	ug/L	10000[3]	10000	<1.0	<1.0

The data presented is a summary of the results of samples collected on May 18, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.

Table 2b
Groundwater Analytical Results
Semi-Volatile Organic Compounds
Austal Facility
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID	
					TW-1	TW-2
Semivolatile Organics						
Acenaphthene	83-32-9	ug/L	53	37	<11	<11
Acenaphthylene	208-96-8	ug/L	None	93.9	<11	<11
Anthracene	120-12-7	ug/L	180	180	<11	<11
Benzidine	92-87-5	ug/L	0.0001	0.00029	<26	<26
Benzo(a)anthracene	56-55-3	ug/L	0.012	0.092	<11	<11
Benzo(a)pyrene	50-32-8	ug/L	0.2[3]	0.2	<11	<11
Benzo(b)fluoranthene	205-99-2	ug/L	0.034	0.092	<11	<11
Benzo(g,h,i)perylene	191-24-2	ug/L	None	46.9	<11	<11
Benzo(k)fluoranthene	207-08-9	ug/L	0.34	0.92	<11	<11
bis(2-chloroethoxy)methane	111-91-1	ug/L	5.9	46	<11	<11
bis(2-chloroethyl)ether	111-44-4	ug/L	0.014	None	<11	<11
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0[3]	6.0	<11	<11
4-Bromophenyl phenyl ether	101-55-3	ug/L	None	None	<11	<11
Butyl benzyl phthalate	85-68-7	ug/L	16	730	<11	<11
Carbazole	86-74-8	ug/L	None	3.4	<11	<11
4-Chloroaniline	106-47-8	ug/L	0.37	15	<11	<11
4-Chloro-3-methylphenol	59-50-7	ug/L	140	None	<11	<11
2-Chlorophenol	95-57-8	ug/L	9.1	3	<11	<11
4-Chlorophenyl phenyl ether	7005-72-3	ug/L	None	None	<11	<11
Chrysene	218-01-9	ug/L	3.4	9.2	<11	<11
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0034	0.0092	<11	<11
Dibenzofuran	132-64-9	ug/L	0.79	1.2	<11	<11
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.13	0.15	<11	<11
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<10 H	<10 H
1,3-Dichlorobenzene	541-73-1	ug/L	None	None	<10 H	<10 H
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<10 H	<10 H
2,4-Dichlorophenol	120-83-2	ug/L	4.6	11	<11	<11
Diethyl phthalate	84-66-2	ug/L	1500	2900	<11	<11
2,4-Dimethylphenol	105-67-9	ug/L	36	73	<11	<11
Dimthyl phthalate	131-11-3	ug/L	None	36000	<11	<11
Di-n-butyl phthalate	84-74-2	ug/L	90	360	<11	<11
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	0.15	None	<11	<11
2,4-Dinitrophenol	51-28-5	ug/L	3.9	7.3	<32	<32
2,4-Dinitrotoluene	121-14-2	ug/L	0.24	7.3	<11	<11
2,6-Dinitrotoluene	606-20-2	ug/L	0.049	3.6	<11	<11
Di-n-octyl phthalate	117-84-0	ug/L	20	150	<11	<11
Dinoseb	88-85-7	ug/L	7.0[3]	None	<11	<11
Fluoranthene	206-44-0	ug/L	80	150	<11	<11
Fluorene	86-73-7	ug/L	29	24	<11	<11
Hexachlorobenzene	118-74-1	ug/L	1.0[3]	1	<11	<11
Hexachlorobutadiene	87-68-3	ug/L	0.14	0.86	<10H	<10 H
Hexachlorocyclopentadiene	77-47-4	ug/L	50[3]	50	<21	<21
Hexachloroethane	67-72-1	ug/L	0.33	4.8	<10H	<10 H
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.034	0.092	<11	<11
Isophorone	78-59-1	ug/L	78	71	<11	<11
1-Methylnaphthalene	90-12-0	ug/L	1.1[3]	None	<11	<11
2-Methylnaphthalene	91-57-6	ug/L	3.6	6.26	<11	<11
2-Methylphenol	95-48-7	ug/L	93	180	<11	<11
3 & 4 Methylphenol	106-44-5	ug/L	190	18	<21	<21
Naphthalene	91-20-3	ug/L	0.17	0.62	<11	<11
2-Nitroaniline	88-74-4	ug/L	19	11	<11	<11
4-Nitroaniline	100-01-6	ug/L	3.8	None	<11	<11
Nitrobenzene	98-95-3	ug/L	0.14	0.34	<11	<11
2-Nitrophenol	88-75-5	ug/L	None	None	<11	<11
4-Nitrophenol	100-02-7	ug/L	None	12.5	<11	<11
N-Nitrosodimethylamine	62-75-9	ug/L	0.00011	0.0013	<11	<11
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.011	0.0096	<11	<11
N-Nitrosodiphenylamine	86-30-6	ug/L	12	14	<11	<11
Pentachlorophenol	87-86-5	ug/L	1.0[3]	1.0	<21	<21
Phenanthrene	85-01-8	ug/L	None	46.9	<11	<11
Phenol	108-95-2	ug/L	580	1100	<11	<11
Pyrene	129-00-0	ug/L	12	18	<11	<11
1,2,4-Trichlorobenzene	120-82-1	ug/L	7.0[3]	70.0	<10 H	<10 H
2,4,5-Trichlorophenol	95-95-4	ug/L	120	360	<11	<11
2,4,6-Trichlorophenol	88-06-2	ug/L	1.2	0.36	<11	<11

The data presented is a summary of the results of samples collected on May 18, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.
H - Sample was prepped or analyzed beyond the specified holding time.

Table 2c
Groundwater Analytical Results
PCB Arochlors
Austal Facility
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID	
					TW-1	TW-2
PCB Arochlors						
PCB-1016	12674-11-2	ug/L	0.14	0.96	<0.53	<0.53
PCB-1221	11104-28-2	ug/L	0.0047	0.034	<0.53	<0.53
PCB-1232	1141-16-5	ug/L	0.0047	0.034	<0.53	<0.53
PCB-1242	53469-21-9	ug/L	0.0078	0.034	<0.53	<0.53
PCB-1248	12672-29-6	ug/L	0.0078	0.034	<0.53	<0.53
PCB-1254	11097-69-1	ug/L	0.0078	0.034	<0.53	<0.53
PCB-1260	11096-82-5	ug/L	0.0078	0.034	<0.53	<0.53

The data presented is a summary of the results of samples collected on May 18, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
ug/L indicates micrograms per liter.

Table 2d
Groundwater Analytical Results
Metals
Austal Facility
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID	
					TW-1	TW-2
Metals						
Antimony	7440-36-0	mg/L	0.006[3]	0.006	<0.050	<0.050
Arsenic	7440-38-2	mg/L	0.01[3]	0.01	<0.0050	<0.0050
Beryllium	7440-41-7	mg/L	0.004[3]	0.004	<0.0030	<0.0030
Cadmium	7440-43-9	mg/L	0.005[3]	0.005	<0.0050	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.1[3]	0.10	<0.010	<0.010
Copper	7440-50-8	mg/L	1.3[3]	1.30	<0.010	<0.010
Lead	7439-92-1	mg/L	0.015[3]	0.015	0.0075	0.0082
Mercury	7487-94-7	mg/L	0.002[3]	0.002	<0.20	<0.20
Nickel	7440-02-0	mg/L	0.039	0.1	<0.0050	<0.0050
Selenium	7782-49-2	mg/L	0.005[3]	0.005	<0.010	<0.010
Silver	7440-22-4	mg/L	0.0094	0.0018	<0.0050	<0.0050
Thallium	7440-28-0	mg/L	0.002[3]	0.002	<0.010	<0.010
Zinc	7440-66-6	mg/L	0.6	1.1	<0.020	<0.020

The data presented is a summary of the results of samples collected on May 18, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.

(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.

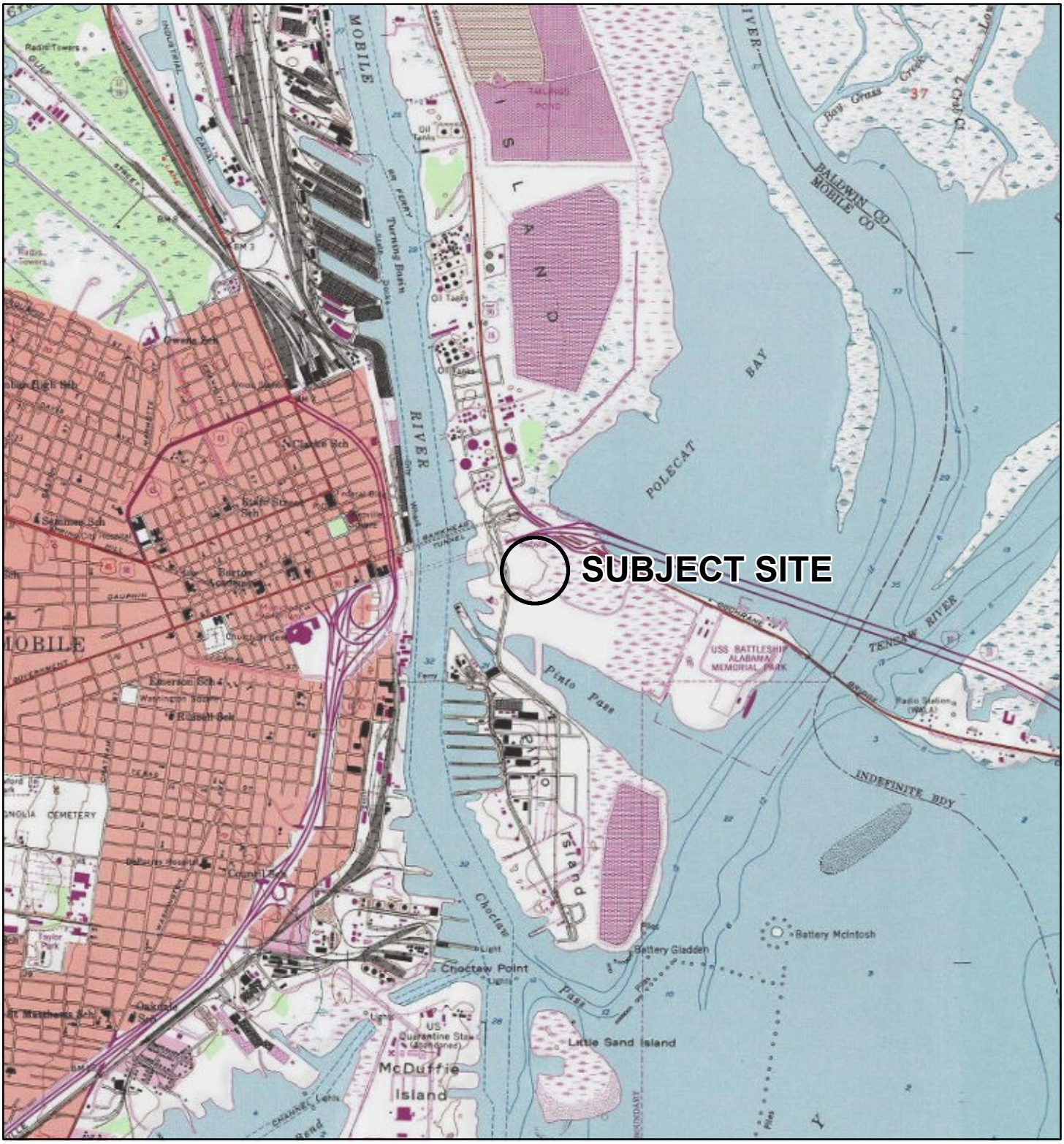
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.

mg/L indicates milligrams per liter.

APPENDIX A

AUSTAL FACILITY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

- Copyright:© 2013 National Geographic Society, i-cubed

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 1
SITE VICINITY MAP
AUSTAL FACILITY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

- Project Limit
- Parcel Line*

1:2,400

0 200 400 Feet

1 inch = 200 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
Mobile County Revenue Commissioner's Parcels - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 2
AERIAL PHOTOGRAPH
AUSTAL FACILITY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\AUSTAL_FIG2.mxd



LEGEND

Boring /Temporary Well (B/TW)

Project Limit

Parcel Line*

1:2,400

0 200 400 Feet

1 inch = 200 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
Mobile County Revenue Commissioner's Parcels - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
AUSTAL FACILITY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\AUSTAL_FIG3.mxd

APPENDIX B

AUSTAL FACILITY
GROUNDWATER FIELD PARAMETER DATA

PROJECT NO.: 15-1101-0043

Groundwater Field Parameter Data

Austal Facility
Preliminary Investigation
15-1101-0043

Well I.D.	Total Depth (feet)	Depth to Water Level (feet)	Well Volume (gallon)	Volume Evacuated (gallon)	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	16.0	10.49	0.23	2.25	6.1	26.1	0.283	1.6	33.0
TW-2	16.2	8.86	0.30	2.1	6.1	25.9	0.466	0.6	22.8

Notes:
1. Measurements presented are the final well volume.
2. Total depth and depth to water level are measured from top of well casing.
3. S.U. - Standard Units
4. oC - Degrees Celcius
5. uS - micro Siemens per Centimeter
6. mg/L-milligrams per liter
7. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

APPENDIX C

AUSTAL FACILITY
SOIL BORING LOGS AND
TEMPORARY WELL CONSTRUCTION DETAILS

PROJECT NO.: 15-1101-0043

thompson ENGINEERING

AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: B-1/TW-1 **LOCATION:** Austal Facility **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		ASPHALT	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		White to tan fine SAND			
5					
10		saturated Gray fine SAND			
15					
		B.T. @ 16 ft bgs			
20					
25					
30					
35					

thompson ENGINEERING

AASHTO R18

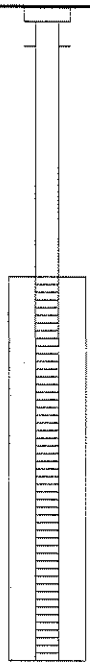
TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 10 ft. bgs

BORING NO.: B-2/TW-2 **LOCATION:** Austal Facility **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		ASPHALT	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake): Flush-threaded joints with bottom cap.		
		Red CLAYEY SAND with GRAVEL			
		White to tan fine SAND			
5					
10		saturated gray fine SAND			
15					
		B.T. @ 16 ft bgs			
20					
25					
30					
35					

APPENDIX D

AUSTAL FACILITY
LABORATORY ANALYTICAL DATA
WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105842-1
Client Project/Site: Austal USA

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
6/2/2015 2:04:11 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Thompson Engineering Inc
Project/Site: Austal USA

TestAmerica Job ID: 400-105842-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	RPD of the LCS and LCSD exceeds the control limits
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-105842-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105842-1

Comments
No additional comments.

Receipt
The samples were received on 5/19/2015 8:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for preparation batch 258893 recovered outside control limits for one analyte. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: Surrogate recovery for the following sample was outside the upper control limit: (MB 400-258202/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 258202 recovered outside control limits for the flagged analytes.

Method(s) 8270D: Surrogate recovery for the following sample was outside the upper control limit: (MB 400-258202/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The following samples was re-prepared outside of preparation holding time due to failing LCS compounds in the original extraction: TW-1 (400-105842-3) and TW-2 (400-105842-4).The re-extraction performed outside of hold time confirmed the original results.

Method(s) 8270D: Surrogate recovery for the following sample was outside the upper control limit: (MB 400-259035/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3520C, 608: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 400-258146.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with prep batch 258202.

Method(s) 3520C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 400-259035.

Job ID: 400-105842-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Thompson Engineering Inc
Project/Site: Austal USA

TestAmerica Job ID: 400-105842-1

Client Sample ID: B-1 0'-11'
Date Collected: 05/18/15 10:10
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-1
Matrix: Solid
Percent Solids: 94.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,1,2,2-Tetrachloroethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,1,2-Trichloroethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,1-Dichloroethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,1-Dichloroethene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,2-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,2-Dichloroethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,2-Dichloropropane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,3-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
1,4-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
2-Hexanone	<28		28		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Acetone	<28		28		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Benzene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Bromoform	<5.5	*	5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Bromomethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Carbon disulfide	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Carbon tetrachloride	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Chlorobenzene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Chlorodibromomethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Chloroethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Chloroform	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Chloromethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
cis-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
cis-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Dichlorobromomethane	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Ethylbenzene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
m-Xylene & p-Xylene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
2-Butanone (MEK)	<28		28		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Methylene Chloride	<17		17		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
o-Xylene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Styrene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Tetrachloroethene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Toluene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
trans-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
trans-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Trichloroethene	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Vinyl chloride	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1
Xylenes, Total	<5.5		5.5		ug/Kg	☼	05/28/15 11:40	05/28/15 20:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*05/28/15 11:40*	*05/28/15 20:25*	*1*
Dibromofluoromethane	*107*		*79 - 123*	*05/28/15 11:40*	*05/28/15 20:25*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*05/28/15 11:40*	*05/28/15 20:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
1,4-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
1-Methylnaphthalene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1

Client Sample ID: B-1 0'-11'
Date Collected: 05/18/15 10:10
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-1
Matrix: Solid
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2,4,6-Trichlorophenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2,4-Dichlorophenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2,4-Dimethylphenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2,4-Dinitrophenol	<1000		1000		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2-Chlorophenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2-Methylnaphthalene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2-Methylphenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2-Nitroaniline	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2-Nitrophenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
3 & 4 Methylphenol	<700		700		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
3,3'-Dichlorobenzidine	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
4,6-Dinitro-2-methylphenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
4-Bromophenyl phenyl ether	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
4-Chloro-3-methylphenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
4-Chloroaniline	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
4-Chlorophenyl phenyl ether	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
4-Nitroaniline	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
4-Nitrophenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Acenaphthene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Acenaphthylene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Anthracene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Benzidine	<1000		1000		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Benzo[a]anthracene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Benzo[a]pyrene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Benzo[b]fluoranthene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Benzo[g,h,i]perylene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Benzo[k]fluoranthene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Bis(2-chloroethoxy)methane	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Bis(2-chloroethyl)ether	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Bis(2-ethylhexyl) phthalate	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Butyl benzyl phthalate	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Carbazole	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Chrysene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Di-n-butyl phthalate	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Di-n-octyl phthalate	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Dibenz(a,h)anthracene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Dibenzofuran	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Diethyl phthalate	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Dimethyl phthalate	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Fluoranthene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Fluorene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Hexachlorobenzene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Hexachlorobutadiene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Hexachlorocyclopentadiene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Hexachloroethane	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Indeno[1,2,3-cd]pyrene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Isophorone	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
N-Nitrosodi-n-propylamine	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1

Client Sample ID: B-1 0'-11'
Date Collected: 05/18/15 10:10
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-1
Matrix: Solid
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
N-Nitrosodiphenylamine	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Naphthalene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Nitrobenzene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Pentachlorophenol	<700		700		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Phenanthrene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Phenol	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Pyrene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
1,2,4-Trichlorobenzene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
1,2-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2,4-Dinitrotoluene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
2,6-Dinitrotoluene	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1
Dinoseb	<350		350		ug/Kg	☼	05/21/15 09:57	05/29/15 14:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*78*		*37 - 120*	*05/21/15 09:57*	*05/29/15 14:43*	*1*
Terphenyl-d14 (Surr)	*90*		*36 - 134*	*05/21/15 09:57*	*05/29/15 14:43*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*32 - 133*	*05/21/15 09:57*	*05/29/15 14:43*	*1*
2-Fluorobiphenyl	*77*		*44 - 120*	*05/21/15 09:57*	*05/29/15 14:43*	*1*
2-Fluorophenol (Surr)	*72*		*25 - 120*	*05/21/15 09:57*	*05/29/15 14:43*	*1*
Nitrobenzene-d5 (Surr)	*72*		*27 - 120*	*05/21/15 09:57*	*05/29/15 14:43*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 05:49	1
PCB-1221	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 05:49	1
PCB-1232	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 05:49	1
PCB-1242	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 05:49	1
PCB-1248	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 05:49	1
PCB-1254	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 05:49	1
PCB-1260	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*30 - 150*	*05/22/15 08:08*	*05/27/15 05:49*	*1*
Tetrachloro-m-xylene	*98*		*43 - 142*	*05/22/15 08:08*	*05/27/15 05:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Aluminum	**420**	**F1**	10		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Arsenic	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Beryllium	<0.31		0.31		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Cadmium	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Chromium	**1.4**		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Copper	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Nickel	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Lead	**1.3**		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Antimony	<5.2		5.2		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Selenium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1
Thallium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1

Client Sample ID: B-1 0'-11'

Lab Sample ID: 400-105842-1
Date Collected: 05/18/15 10:10
Matrix: Solid
Date Received: 05/19/15 08:40
Percent Solids: 94.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<2.1		2.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:23	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:12	05/26/15 12:10	1

Client Sample ID: B-2 0'-11'

Lab Sample ID: 400-105842-2
Date Collected: 05/18/15 10:10
Matrix: Solid
Date Received: 05/19/15 08:40
Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,1,2,2-Tetrachloroethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,1,2-Trichloroethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,1-Dichloroethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,1-Dichloroethene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,2-Dichlorobenzene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,2-Dichloroethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,2-Dichloropropane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,3-Dichlorobenzene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
1,4-Dichlorobenzene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
2-Hexanone	<34		34		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Acetone	<34		34		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Benzene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Bromoform	<6.8	*	6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Bromomethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Carbon disulfide	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Carbon tetrachloride	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Chlorobenzene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Chlorodibromomethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Chloroethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Chloroform	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Chloromethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
cis-1,2-Dichloroethene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
cis-1,3-Dichloropropene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Dichlorobromomethane	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Ethylbenzene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
m-Xylene & p-Xylene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
2-Butanone (MEK)	<34		34		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
4-Methyl-2-pentanone (MIBK)	<34		34		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Methylene Chloride	<21		21		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
o-Xylene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Styrene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Tetrachloroethene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Toluene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
trans-1,2-Dichloroethene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
trans-1,3-Dichloropropene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Trichloroethene	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1
Vinyl chloride	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1

Client: Thompson Engineering Inc
Project/Site: Austal USA

TestAmerica Job ID: 400-105842-1

Client Sample ID: B-2 0'-11'
Date Collected: 05/18/15 10:10
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-2
Matrix: Solid
Percent Solids: 77.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<6.8		6.8		ug/Kg	☼	05/28/15 11:40	05/28/15 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 122*	*05/28/15 11:40*	*05/28/15 20:51*	*1*
Dibromofluoromethane	*106*		*79 - 123*	*05/28/15 11:40*	*05/28/15 20:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*05/28/15 11:40*	*05/28/15 20:51*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
1,4-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
1-Methylnaphthalene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2,4-Dichlorophenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2-Chlorophenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2-Methylphenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2-Nitroaniline	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2-Nitrophenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
3 & 4 Methylphenol	<840		840		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
4-Chloroaniline	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
4-Nitroaniline	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
4-Nitrophenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Acenaphthene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Acenaphthylene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Anthracene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Benzidine	<1300		1300		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Carbazole	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Chrysene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Dibenzofuran	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1

Client Sample ID: B-2 0'-11'
Date Collected: 05/18/15 10:10
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-2
Matrix: Solid
Percent Solids: 77.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Dimethyl phthalate	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Fluoranthene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Fluorene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Hexachlorobenzene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Hexachloroethane	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Isophorone	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
N-Nitrosodimethylamine	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Naphthalene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Nitrobenzene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Pentachlorophenol	<840		840		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Phenanthrene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Phenol	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Pyrene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
1,2,4-Trichlorobenzene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
1,2-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1
Dinoseb	<420		420		ug/Kg	☼	05/21/15 09:57	05/29/15 15:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*83*		*37 - 120*	*05/21/15 09:57*	*05/29/15 15:19*	*1*
Terphenyl-d14 (Surr)	*106*		*36 - 134*	*05/21/15 09:57*	*05/29/15 15:19*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*32 - 133*	*05/21/15 09:57*	*05/29/15 15:19*	*1*
2-Fluorobiphenyl	*84*		*44 - 120*	*05/21/15 09:57*	*05/29/15 15:19*	*1*
2-Fluorophenol (Surr)	*75*		*25 - 120*	*05/21/15 09:57*	*05/29/15 15:19*	*1*
Nitrobenzene-d5 (Surr)	*74*		*27 - 120*	*05/21/15 09:57*	*05/29/15 15:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 05:24	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 05:24	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 05:24	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 05:24	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 05:24	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 05:24	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*91*		*30 - 150*	*05/22/15 08:08*	*05/27/15 05:24*	*1*
Tetrachloro-m-xylene	*76*		*43 - 142*	*05/22/15 08:08*	*05/27/15 05:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.63		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1

Client Sample ID: B-2 0'-11'

Lab Sample ID: 400-105842-2
Date Collected: 05/18/15 10:10
Matrix: Solid
Date Received: 05/19/15 08:40
Percent Solids: 77.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**280**		13		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Arsenic	<0.63		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Beryllium	<0.38		0.38		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Cadmium	<0.63		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Chromium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Copper	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Nickel	<0.63		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Lead	**1.4**		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Antimony	<6.3		6.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Selenium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Thallium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1
Zinc	<2.5		2.5		mg/Kg	☼	05/21/15 11:41	05/23/15 14:39	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	05/21/15 09:12	05/26/15 12:11	1

Client Sample ID: TW-1

Lab Sample ID: 400-105842-3
Date Collected: 05/18/15 10:57
Matrix: Water
Date Received: 05/19/15 08:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/29/15 22:43	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/29/15 22:43	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/29/15 22:43	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/29/15 22:43	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/29/15 22:43	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 22:43	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/29/15 22:43	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/29/15 22:43	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 22:43	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 22:43	1
2-Hexanone	<25		25		ug/L			05/29/15 22:43	1
Acetone	<25		25		ug/L			05/29/15 22:43	1
Benzene	<1.0		1.0		ug/L			05/29/15 22:43	1
Bromoform	<5.0		5.0		ug/L			05/29/15 22:43	1
Bromomethane	<1.0		1.0		ug/L			05/29/15 22:43	1
Carbon disulfide	<1.0		1.0		ug/L			05/29/15 22:43	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/29/15 22:43	1
Chlorobenzene	<1.0		1.0		ug/L			05/29/15 22:43	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/29/15 22:43	1
Chloroethane	<1.0		1.0		ug/L			05/29/15 22:43	1
Chloroform	<1.0		1.0		ug/L			05/29/15 22:43	1
Chloromethane	<1.0		1.0		ug/L			05/29/15 22:43	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/29/15 22:43	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/29/15 22:43	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/29/15 22:43	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/15 22:43	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/29/15 22:43	1

Client Sample ID: TW-1
Date Collected: 05/18/15 10:57
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<25		25		ug/L			05/29/15 22:43	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/29/15 22:43	1
Methylene Chloride	<5.0		5.0		ug/L			05/29/15 22:43	1
o-Xylene	<5.0		5.0		ug/L			05/29/15 22:43	1
Styrene	<1.0		1.0		ug/L			05/29/15 22:43	1
Tetrachloroethene	<1.0		1.0		ug/L			05/29/15 22:43	1
Toluene	<1.0		1.0		ug/L			05/29/15 22:43	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/29/15 22:43	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/29/15 22:43	1
Trichloroethene	<1.0		1.0		ug/L			05/29/15 22:43	1
Vinyl chloride	<1.0		1.0		ug/L			05/29/15 22:43	1
Xylenes, Total	<5.0		5.0		ug/L			05/29/15 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*05/29/15 22:43*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/29/15 22:43*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/29/15 22:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:11	1
1,4-Dichlorobenzene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:11	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2,4-Dimethylphenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/27/15 17:42	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2-Methylphenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
3 & 4 Methylphenol	<21		21		ug/L		05/22/15 12:59	05/27/15 17:42	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
4-Bromophenyl phenyl ether	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Acenaphthylene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Benzidine	<26		26		ug/L		05/22/15 12:59	05/27/15 17:42	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Benzo[b]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1

Client Sample ID: TW-1
Date Collected: 05/18/15 10:57
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Dibenzofuran	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Hexachlorobenzene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Hexachlorobutadiene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:11	1
Hexachlorocyclopentadiene	<21		21		ug/L		05/22/15 12:59	05/27/15 17:42	1
Hexachloroethane	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:11	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/27/15 17:42	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Phenol	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
1,2,4-Trichlorobenzene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:11	1
1,2-Dichlorobenzene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:11	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/27/15 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*72*		*10 - 120*	*05/22/15 12:59*	*05/27/15 17:42*	*1*
Phenol-d5 (Surr)	*54*		*10 - 120*	*05/29/15 11:19*	*06/01/15 14:11*	*1*
Terphenyl-d14 (Surr)	*120*		*53 - 125*	*05/22/15 12:59*	*05/27/15 17:42*	*1*
Terphenyl-d14 (Surr)	*88*		*53 - 125*	*05/29/15 11:19*	*06/01/15 14:11*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 135*	*05/22/15 12:59*	*05/27/15 17:42*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*15 - 135*	*05/29/15 11:19*	*06/01/15 14:11*	*1*
2-Fluorobiphenyl	*69*		*34 - 120*	*05/22/15 12:59*	*05/27/15 17:42*	*1*
2-Fluorobiphenyl	*73*		*34 - 120*	*05/29/15 11:19*	*06/01/15 14:11*	*1*
2-Fluorophenol (Surr)	*61*		*10 - 120*	*05/22/15 12:59*	*05/27/15 17:42*	*1*
2-Fluorophenol (Surr)	*47*		*10 - 120*	*05/29/15 11:19*	*06/01/15 14:11*	*1*
Nitrobenzene-d5 (Surr)	*81*		*27 - 120*	*05/22/15 12:59*	*05/27/15 17:42*	*1*
Nitrobenzene-d5 (Surr)	*70*		*27 - 120*	*05/29/15 11:19*	*06/01/15 14:11*	*1*

Client Sample ID: TW-1

Lab Sample ID: 400-105842-3

Date Collected: 05/18/15 10:57

Matrix: Water

Date Received: 05/19/15 08:40

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:01	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:01	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:01	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:01	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:01	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:01	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*		*10 - 125*	*05/22/15 08:24*	*05/29/15 17:01*	*1*
Tetrachloro-m-xylene	*76*		*46 - 150*	*05/22/15 08:24*	*05/29/15 17:01*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/20/15 11:50	05/22/15 16:10	1
Arsenic	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:10	1
Beryllium	<0.0030		0.0030		mg/L		05/20/15 11:50	05/22/15 16:10	1
Cadmium	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:10	1
Chromium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:10	1
Copper	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:10	1
Lead	**0.0075**		0.0050		mg/L		05/20/15 11:50	05/22/15 16:10	1
Nickel	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:10	1
Selenium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:10	1
Silver	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:10	1
Thallium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:10	1
Zinc	<0.020		0.020		mg/L		05/20/15 11:50	05/22/15 16:10	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/20/15 09:49	05/21/15 14:49	1

Client Sample ID: TW-2

Lab Sample ID: 400-105842-4

Date Collected: 05/18/15 10:54

Matrix: Water

Date Received: 05/19/15 08:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/29/15 23:09	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/29/15 23:09	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/29/15 23:09	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/29/15 23:09	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/29/15 23:09	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 23:09	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/29/15 23:09	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/29/15 23:09	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 23:09	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 23:09	1
2-Hexanone	<25		25		ug/L			05/29/15 23:09	1
Acetone	<25		25		ug/L			05/29/15 23:09	1
Benzene	<1.0		1.0		ug/L			05/29/15 23:09	1

Client Sample ID: TW-2
Date Collected: 05/18/15 10:54
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<5.0		5.0		ug/L			05/29/15 23:09	1
Bromomethane	<1.0		1.0		ug/L			05/29/15 23:09	1
Carbon disulfide	<1.0		1.0		ug/L			05/29/15 23:09	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/29/15 23:09	1
Chlorobenzene	<1.0		1.0		ug/L			05/29/15 23:09	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/29/15 23:09	1
Chloroethane	<1.0		1.0		ug/L			05/29/15 23:09	1
Chloroform	<1.0		1.0		ug/L			05/29/15 23:09	1
Chloromethane	<1.0		1.0		ug/L			05/29/15 23:09	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/29/15 23:09	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/29/15 23:09	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/29/15 23:09	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/15 23:09	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/29/15 23:09	1
2-Butanone (MEK)	<25		25		ug/L			05/29/15 23:09	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/29/15 23:09	1
Methylene Chloride	<5.0		5.0		ug/L			05/29/15 23:09	1
o-Xylene	<5.0		5.0		ug/L			05/29/15 23:09	1
Styrene	<1.0		1.0		ug/L			05/29/15 23:09	1
Tetrachloroethene	<1.0		1.0		ug/L			05/29/15 23:09	1
Toluene	<1.0		1.0		ug/L			05/29/15 23:09	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/29/15 23:09	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/29/15 23:09	1
Trichloroethene	<1.0		1.0		ug/L			05/29/15 23:09	1
Vinyl chloride	<1.0		1.0		ug/L			05/29/15 23:09	1
Xylenes, Total	<5.0		5.0		ug/L			05/29/15 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*05/29/15 23:09*	*1*
Dibromofluoromethane	*112*		*81 - 121*		*05/29/15 23:09*	*1*
Toluene-d8 (Surr)	*88*		*80 - 120*		*05/29/15 23:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:49	1
1,4-Dichlorobenzene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:49	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2,4-Dimethylphenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/27/15 18:18	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2-Methylphenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
3 & 4 Methylphenol	<21		21		ug/L		05/22/15 12:59	05/27/15 18:18	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1

Client Sample ID: TW-2
Date Collected: 05/18/15 10:54
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Acenaphthylene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Benzidine	<26		26		ug/L		05/22/15 12:59	05/27/15 18:18	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Benzo[b]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Dibenzofuran	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Hexachlorobenzene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Hexachlorobutadiene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:49	1
Hexachlorocyclopentadiene	<21		21		ug/L		05/22/15 12:59	05/27/15 18:18	1
Hexachloroethane	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:49	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/27/15 18:18	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Phenol	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
1,2,4-Trichlorobenzene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:49	1
1,2-Dichlorobenzene	<10	H	10		ug/L		05/29/15 11:19	06/01/15 14:49	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/27/15 18:18	1

Client: Thompson Engineering Inc
Project/Site: Austal USA

TestAmerica Job ID: 400-105842-1

Client Sample ID: TW-2
Date Collected: 05/18/15 10:54
Date Received: 05/19/15 08:40

Lab Sample ID: 400-105842-4
Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	62		10 - 120	05/22/15 12:59	05/27/15 18:18	1
Phenol-d5 (Surr)	54		10 - 120	05/29/15 11:19	06/01/15 14:49	1
Terphenyl-d14 (Surr)	104		53 - 125	05/22/15 12:59	05/27/15 18:18	1
Terphenyl-d14 (Surr)	94		53 - 125	05/29/15 11:19	06/01/15 14:49	1
2,4,6-Tribromophenol (Surr)	77		15 - 135	05/22/15 12:59	05/27/15 18:18	1
2,4,6-Tribromophenol (Surr)	53		15 - 135	05/29/15 11:19	06/01/15 14:49	1
2-Fluorobiphenyl	63		34 - 120	05/22/15 12:59	05/27/15 18:18	1
2-Fluorobiphenyl	73		34 - 120	05/29/15 11:19	06/01/15 14:49	1
2-Fluorophenol (Surr)	50		10 - 120	05/22/15 12:59	05/27/15 18:18	1
2-Fluorophenol (Surr)	48		10 - 120	05/29/15 11:19	06/01/15 14:49	1
Nitrobenzene-d5 (Surr)	75		27 - 120	05/22/15 12:59	05/27/15 18:18	1
Nitrobenzene-d5 (Surr)	71		27 - 120	05/29/15 11:19	06/01/15 14:49	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:27	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:27	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:27	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:27	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:27	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:27	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	48		10 - 125	05/22/15 08:24	05/29/15 17:27	1
Tetrachloro-m-xylene	92		46 - 150	05/22/15 08:24	05/29/15 17:27	1

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/20/15 11:50	05/22/15 16:26	1
Arsenic	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:26	1
Beryllium	<0.0030		0.0030		mg/L		05/20/15 11:50	05/22/15 16:26	1
Cadmium	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:26	1
Chromium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:26	1
Copper	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:26	1
Lead	**0.0082**		0.0050		mg/L		05/20/15 11:50	05/22/15 16:26	1
Nickel	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:26	1
Selenium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:26	1
Silver	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:26	1
Thallium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:26	1
Zinc	<0.020		0.020		mg/L		05/20/15 11:50	05/22/15 16:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/20/15 13:50	05/21/15 14:50	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258893/1-A
Matrix: Solid
Analysis Batch: 258842

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
2-Hexanone	<25		25		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Acetone	<25		25		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Benzene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Bromoform	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Bromomethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Carbon disulfide	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Chlorobenzene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Chloroethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Chloroform	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Chloromethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Ethylbenzene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
2-Butanone (MEK)	<25		25		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Methylene Chloride	<15		15		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
o-Xylene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Styrene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Tetrachloroethene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Toluene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Trichloroethene	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Vinyl chloride	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1
Xylenes, Total	<5.0		5.0		ug/Kg		05/28/15 11:40	05/28/15 13:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*05/28/15 11:40*	*05/28/15 13:05*	*1*
Dibromofluoromethane	*107*		*79 - 123*	*05/28/15 11:40*	*05/28/15 13:05*	*1*
Toluene-d8 (Surr)	*106*		*80 - 120*	*05/28/15 11:40*	*05/28/15 13:05*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258893/2-A
Matrix: Solid
Analysis Batch: 258842

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.5		ug/Kg		97	72 - 121
1,1,2,2-Tetrachloroethane	50.0	59.0		ug/Kg		118	67 - 120
1,1,2-Trichloroethane	50.0	58.5		ug/Kg		117	75 - 118
1,1-Dichloroethane	50.0	49.2		ug/Kg		98	61 - 128
1,1-Dichloroethene	50.0	45.9		ug/Kg		92	62 - 130
1,2-Dichlorobenzene	50.0	52.1		ug/Kg		104	76 - 120
1,2-Dichloroethane	50.0	51.6		ug/Kg		103	70 - 125
1,2-Dichloropropane	50.0	50.0		ug/Kg		100	64 - 129
1,3-Dichlorobenzene	50.0	55.3		ug/Kg		111	78 - 118
1,4-Dichlorobenzene	50.0	56.6		ug/Kg		113	77 - 118
2-Hexanone	200	215		ug/Kg		107	54 - 140
Acetone	200	187		ug/Kg		94	43 - 150
Benzene	50.0	49.5		ug/Kg		99	74 - 119
Bromoform	50.0	62.8	*	ug/Kg		126	54 - 125
Bromomethane	50.0	48.1		ug/Kg		96	25 - 150
Carbon disulfide	50.0	47.5		ug/Kg		95	26 - 150
Carbon tetrachloride	50.0	50.5		ug/Kg		101	70 - 128
Chlorobenzene	50.0	52.9		ug/Kg		106	80 - 116
Chlorodibromomethane	50.0	53.3		ug/Kg		107	65 - 131
Chloroethane	50.0	51.9		ug/Kg		104	22 - 150
Chloroform	50.0	48.7		ug/Kg		97	74 - 119
Chloromethane	50.0	52.4		ug/Kg		105	36 - 147
cis-1,2-Dichloroethene	50.0	51.6		ug/Kg		103	68 - 126
cis-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	68 - 125
Dichlorobromomethane	50.0	50.5		ug/Kg		101	68 - 128
Ethylbenzene	50.0	50.8		ug/Kg		102	78 - 120
m-Xylene & p-Xylene	50.0	51.8		ug/Kg		104	70 - 120
2-Butanone (MEK)	200	192		ug/Kg		96	62 - 126
4-Methyl-2-pentanone (MIBK)	200	203		ug/Kg		101	56 - 137
Methylene Chloride	50.0	50.7		ug/Kg		101	45 - 150
o-Xylene	50.0	49.5		ug/Kg		99	70 - 120
Styrene	50.0	49.7		ug/Kg		99	66 - 132
Tetrachloroethene	50.0	50.2		ug/Kg		100	74 - 126
Toluene	50.0	52.0		ug/Kg		104	76 - 120
trans-1,2-Dichloroethene	50.0	47.5		ug/Kg		95	65 - 130
trans-1,3-Dichloropropene	50.0	52.2		ug/Kg		104	65 - 126
Trichloroethene	50.0	46.3		ug/Kg		93	76 - 122
Vinyl chloride	50.0	52.4		ug/Kg		105	52 - 134
Xylenes, Total	100	101		ug/Kg		101	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*116*		*72 - 122*
Dibromofluoromethane	*99*		*79 - 123*
Toluene-d8 (Surr)	*114*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105842-1 MS
Matrix: Solid
Analysis Batch: 258842

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 258893

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<5.5		51.2	46.2		ug/Kg	☼	90	53 - 130
1,1,2,2-Tetrachloroethane	<5.5		51.2	47.8		ug/Kg	☼	93	10 - 155
1,1,2-Trichloroethane	<5.5		51.2	52.5		ug/Kg	☼	103	49 - 130
1,1-Dichloroethane	<5.5		51.2	47.6		ug/Kg	☼	93	53 - 130
1,1-Dichloroethene	<5.5		51.2	47.1		ug/Kg	☼	92	57 - 133
1,2-Dichlorobenzene	<5.5		51.2	39.8		ug/Kg	☼	78	41 - 130
1,2-Dichloroethane	<5.5		51.2	48.1		ug/Kg	☼	94	52 - 130
1,2-Dichloropropane	<5.5		51.2	49.6		ug/Kg	☼	97	52 - 130
1,3-Dichlorobenzene	<5.5		51.2	40.1		ug/Kg	☼	78	43 - 130
1,4-Dichlorobenzene	<5.5		51.2	40.2		ug/Kg	☼	79	42 - 130
2-Hexanone	<28		205	189		ug/Kg	☼	92	16 - 163
Acetone	<28		205	175		ug/Kg	☼	80	30 - 175
Benzene	<5.5		51.2	47.3		ug/Kg	☼	92	56 - 130
Bromoform	<5.5	*	51.2	52.5		ug/Kg	☼	102	40 - 130
Bromomethane	<5.5		51.2	49.5		ug/Kg	☼	97	14 - 185
Carbon disulfide	<5.5		51.2	46.6		ug/Kg	☼	91	56 - 130
Carbon tetrachloride	<5.5		51.2	48.2		ug/Kg	☼	94	52 - 133
Chlorobenzene	<5.5		51.2	46.0		ug/Kg	☼	90	55 - 130
Chlorodibromomethane	<5.5		51.2	48.5		ug/Kg	☼	95	49 - 130
Chloroethane	<5.5		51.2	51.4		ug/Kg	☼	100	39 - 157
Chloroform	<5.5		51.2	47.7		ug/Kg	☼	93	54 - 130
Chloromethane	<5.5		51.2	52.2		ug/Kg	☼	102	37 - 137
cis-1,2-Dichloroethene	<5.5		51.2	48.2		ug/Kg	☼	94	48 - 130
cis-1,3-Dichloropropene	<5.5		51.2	46.5		ug/Kg	☼	91	48 - 130
Dichlorobromomethane	<5.5		51.2	48.7		ug/Kg	☼	95	51 - 130
Ethylbenzene	<5.5		51.2	44.2		ug/Kg	☼	86	50 - 130
m-Xylene & p-Xylene	<5.5		51.2	43.3		ug/Kg	☼	85	53 - 130
2-Butanone (MEK)	<28		205	186		ug/Kg	☼	91	26 - 151
4-Methyl-2-pentanone (MIBK)	<28		205	192		ug/Kg	☼	94	27 - 146
Methylene Chloride	<17		51.2	52.3		ug/Kg	☼	102	52 - 130
o-Xylene	<5.5		51.2	42.3		ug/Kg	☼	83	53 - 130
Styrene	<5.5		51.2	42.2		ug/Kg	☼	82	50 - 130
Tetrachloroethene	<5.5		51.2	51.2		ug/Kg	☼	100	30 - 157
Toluene	<5.5		51.2	47.0		ug/Kg	☼	92	55 - 130
trans-1,2-Dichloroethene	<5.5		51.2	47.2		ug/Kg	☼	92	60 - 130
trans-1,3-Dichloropropene	<5.5		51.2	43.2		ug/Kg	☼	84	47 - 130
Trichloroethene	<5.5		51.2	47.0		ug/Kg	☼	92	41 - 145
Vinyl chloride	<5.5		51.2	51.9		ug/Kg	☼	101	50 - 141
Xylenes, Total	<5.5		102	85.6		ug/Kg	☼	84	51 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*113*		*72 - 122*
Dibromofluoromethane	*99*		*79 - 123*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105842-1 MSD
Matrix: Solid
Analysis Batch: 258842

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 258893

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<5.5		49.9	44.8		ug/Kg	☼	90	53 - 130	3	30
1,1,2,2-Tetrachloroethane	<5.5		49.9	47.0		ug/Kg	☼	94	10 - 155	2	57
1,1,2-Trichloroethane	<5.5		49.9	47.3		ug/Kg	☼	95	49 - 130	10	30
1,1-Dichloroethane	<5.5		49.9	46.5		ug/Kg	☼	93	53 - 130	2	30
1,1-Dichloroethene	<5.5		49.9	44.5		ug/Kg	☼	89	57 - 133	6	30
1,2-Dichlorobenzene	<5.5		49.9	43.0		ug/Kg	☼	86	41 - 130	8	30
1,2-Dichloroethane	<5.5		49.9	46.8		ug/Kg	☼	94	52 - 130	3	30
1,2-Dichloropropane	<5.5		49.9	46.8		ug/Kg	☼	94	52 - 130	6	30
1,3-Dichlorobenzene	<5.5		49.9	43.9		ug/Kg	☼	88	43 - 130	9	31
1,4-Dichlorobenzene	<5.5		49.9	43.2		ug/Kg	☼	87	42 - 130	7	31
2-Hexanone	<28		200	183		ug/Kg	☼	91	16 - 163	3	37
Acetone	<28		200	173		ug/Kg	☼	81	30 - 175	1	31
Benzene	<5.5		49.9	46.6		ug/Kg	☼	93	56 - 130	2	30
Bromoform	<5.5	*	49.9	51.0		ug/Kg	☼	102	40 - 130	3	30
Bromomethane	<5.5		49.9	50.1		ug/Kg	☼	100	14 - 185	1	44
Carbon disulfide	<5.5		49.9	44.7		ug/Kg	☼	89	56 - 130	4	30
Carbon tetrachloride	<5.5		49.9	46.4		ug/Kg	☼	93	52 - 133	4	30
Chlorobenzene	<5.5		49.9	46.5		ug/Kg	☼	93	55 - 130	1	30
Chlorodibromomethane	<5.5		49.9	47.0		ug/Kg	☼	94	49 - 130	3	30
Chloroethane	<5.5		49.9	51.0		ug/Kg	☼	102	39 - 157	1	55
Chloroform	<5.5		49.9	44.9		ug/Kg	☼	90	54 - 130	6	30
Chloromethane	<5.5		49.9	55.4		ug/Kg	☼	111	37 - 137	6	30
cis-1,2-Dichloroethene	<5.5		49.9	47.0		ug/Kg	☼	94	48 - 130	3	30
cis-1,3-Dichloropropene	<5.5		49.9	46.4		ug/Kg	☼	93	48 - 130	0	30
Dichlorobromomethane	<5.5		49.9	47.1		ug/Kg	☼	94	51 - 130	3	30
Ethylbenzene	<5.5		49.9	45.2		ug/Kg	☼	90	50 - 130	2	30
m-Xylene & p-Xylene	<5.5		49.9	45.5		ug/Kg	☼	91	53 - 130	5	30
2-Butanone (MEK)	<28		200	185		ug/Kg	☼	93	26 - 151	1	36
4-Methyl-2-pentanone (MIBK)	<28		200	190		ug/Kg	☼	95	27 - 146	1	32
Methylene Chloride	<17		49.9	50.7		ug/Kg	☼	101	52 - 130	3	30
o-Xylene	<5.5		49.9	43.9		ug/Kg	☼	88	53 - 130	4	30
Styrene	<5.5		49.9	43.1		ug/Kg	☼	86	50 - 130	2	30
Tetrachloroethene	<5.5		49.9	52.1		ug/Kg	☼	104	30 - 157	2	30
Toluene	<5.5		49.9	45.8		ug/Kg	☼	92	55 - 130	3	30
trans-1,2-Dichloroethene	<5.5		49.9	45.6		ug/Kg	☼	91	60 - 130	3	30
trans-1,3-Dichloropropene	<5.5		49.9	42.1		ug/Kg	☼	84	47 - 130	3	30
Trichloroethene	<5.5		49.9	45.1		ug/Kg	☼	90	41 - 145	4	30
Vinyl chloride	<5.5		49.9	53.8		ug/Kg	☼	108	50 - 141	4	30
Xylenes, Total	<5.5		99.9	89.4		ug/Kg	☼	89	51 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*72 - 122*
Dibromofluoromethane	*99*		*79 - 123*
Toluene-d8 (Surr)	*103*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259067/4
Matrix: Water
Analysis Batch: 259067

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/29/15 15:52	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/29/15 15:52	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/29/15 15:52	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/29/15 15:52	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/29/15 15:52	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 15:52	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/29/15 15:52	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/29/15 15:52	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 15:52	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/29/15 15:52	1
2-Hexanone	<25		25		ug/L			05/29/15 15:52	1
Acetone	<25		25		ug/L			05/29/15 15:52	1
Benzene	<1.0		1.0		ug/L			05/29/15 15:52	1
Bromoform	<5.0		5.0		ug/L			05/29/15 15:52	1
Bromomethane	<1.0		1.0		ug/L			05/29/15 15:52	1
Carbon disulfide	<1.0		1.0		ug/L			05/29/15 15:52	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/29/15 15:52	1
Chlorobenzene	<1.0		1.0		ug/L			05/29/15 15:52	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/29/15 15:52	1
Chloroethane	<1.0		1.0		ug/L			05/29/15 15:52	1
Chloroform	<1.0		1.0		ug/L			05/29/15 15:52	1
Chloromethane	<1.0		1.0		ug/L			05/29/15 15:52	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/29/15 15:52	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/29/15 15:52	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/29/15 15:52	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/15 15:52	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/29/15 15:52	1
2-Butanone (MEK)	<25		25		ug/L			05/29/15 15:52	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/29/15 15:52	1
Methylene Chloride	<5.0		5.0		ug/L			05/29/15 15:52	1
o-Xylene	<5.0		5.0		ug/L			05/29/15 15:52	1
Styrene	<1.0		1.0		ug/L			05/29/15 15:52	1
Tetrachloroethene	<1.0		1.0		ug/L			05/29/15 15:52	1
Toluene	<1.0		1.0		ug/L			05/29/15 15:52	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/29/15 15:52	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/29/15 15:52	1
Trichloroethene	<1.0		1.0		ug/L			05/29/15 15:52	1
Vinyl chloride	<1.0		1.0		ug/L			05/29/15 15:52	1
Xylenes, Total	<5.0		5.0		ug/L			05/29/15 15:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*78 - 118*		*05/29/15 15:52*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/29/15 15:52*	*1*
Toluene-d8 (Surr)	*89*		*80 - 120*		*05/29/15 15:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259067/1002
Matrix: Water
Analysis Batch: 259067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	66 - 130
1,1,2,2-Tetrachloroethane	50.0	49.1		ug/L		98	68 - 132
1,1,2-Trichloroethane	50.0	48.3		ug/L		97	80 - 120
1,1-Dichloroethane	50.0	53.6		ug/L		107	75 - 126
1,1-Dichloroethene	50.0	52.1		ug/L		104	50 - 134
1,2-Dichlorobenzene	50.0	43.2		ug/L		86	80 - 121
1,2-Dichloroethane	50.0	54.0		ug/L		108	69 - 128
1,2-Dichloropropane	50.0	53.0		ug/L		106	77 - 126
1,3-Dichlorobenzene	50.0	42.6		ug/L		85	77 - 124
1,4-Dichlorobenzene	50.0	42.0		ug/L		84	79 - 120
2-Hexanone	200	236		ug/L		118	60 - 150
Acetone	200	248		ug/L		124	24 - 150
Benzene	50.0	52.0		ug/L		104	79 - 120
Bromoform	50.0	47.9		ug/L		96	65 - 121
Bromomethane	50.0	41.4		ug/L		83	10 - 150
Carbon disulfide	50.0	51.5		ug/L		103	41 - 140
Carbon tetrachloride	50.0	52.8		ug/L		106	46 - 141
Chlorobenzene	50.0	45.2		ug/L		90	80 - 120
Chlorodibromomethane	50.0	49.2		ug/L		98	63 - 125
Chloroethane	50.0	54.4		ug/L		109	37 - 150
Chloroform	50.0	53.0		ug/L		106	73 - 122
Chloromethane	50.0	44.3		ug/L		89	49 - 141
cis-1,2-Dichloroethene	50.0	54.4		ug/L		109	78 - 122
cis-1,3-Dichloropropene	50.0	55.8		ug/L		112	70 - 122
Dichlorobromomethane	50.0	55.3		ug/L		111	75 - 127
Ethylbenzene	50.0	45.6		ug/L		91	80 - 120
m-Xylene & p-Xylene	50.0	45.2		ug/L		90	70 - 130
2-Butanone (MEK)	200	253		ug/L		127	62 - 137
4-Methyl-2-pentanone (MIBK)	200	268		ug/L		134	63 - 150
Methylene Chloride	50.0	50.7		ug/L		101	70 - 130
o-Xylene	50.0	46.0		ug/L		92	70 - 130
Styrene	50.0	46.2		ug/L		92	79 - 124
Tetrachloroethene	50.0	44.8		ug/L		90	76 - 124
Toluene	50.0	44.9		ug/L		90	80 - 120
trans-1,2-Dichloroethene	50.0	51.7		ug/L		103	70 - 126
trans-1,3-Dichloropropene	50.0	49.3		ug/L		99	64 - 120
Trichloroethene	50.0	51.8		ug/L		104	77 - 120
Vinyl chloride	50.0	42.9		ug/L		86	60 - 128
Xylenes, Total	100	91.2		ug/L		91	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*93*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-257958/16-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1-Methylnaphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Chlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Methylnaphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Nitroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Nitrophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chloroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Nitroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Nitrophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Acenaphthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Acenaphthylene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzidine	<990		990		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[a]anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[a]pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Carbazole	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Chrysene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dibenzofuran	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Diethyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dimethyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Fluorene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorobutadiene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-257958/16-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Isophorone	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Naphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Nitrobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Pentachlorophenol	<660		660		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Phenanthrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Phenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dinoseb	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*92*		*37 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
Terphenyl-d14 (Surr)	*105*		*36 - 134*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*32 - 133*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
2-Fluorophenol (Surr)	*86*		*25 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
Nitrobenzene-d5 (Surr)	*85*		*27 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*

Lab Sample ID: LCS 400-257958/15-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	880		ug/Kg		88	58 - 120
1-Methylnaphthalene	1000	958		ug/Kg		96	66 - 120
2,4,5-Trichlorophenol	1000	906		ug/Kg		91	62 - 120
2,4,6-Trichlorophenol	1000	913		ug/Kg		91	59 - 120
2,4-Dichlorophenol	1000	961		ug/Kg		96	67 - 120
2,4-Dimethylphenol	1000	928		ug/Kg		93	65 - 120
2,4-Dinitrophenol	2610	1780		ug/Kg		68	23 - 124
2-Chlorophenol	1000	913		ug/Kg		91	60 - 120
2-Nitrophenol	1000	935		ug/Kg		94	56 - 120
Acenaphthene	1000	917		ug/Kg		92	62 - 120
Acenaphthylene	1000	949		ug/Kg		95	61 - 120
Anthracene	1000	951		ug/Kg		95	68 - 120
Benzo[a]anthracene	1000	943		ug/Kg		94	67 - 120
Benzo[a]pyrene	1000	976		ug/Kg		98	64 - 120
Benzo[b]fluoranthene	1000	1050		ug/Kg		105	58 - 121
Benzo[g,h,i]perylene	1000	885		ug/Kg		89	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-257958/15-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	908		ug/Kg		91	60 - 120
Bis(2-chloroethyl)ether	1000	893		ug/Kg		89	55 - 120
Bis(2-ethylhexyl) phthalate	1000	961		ug/Kg		96	59 - 136
Butyl benzyl phthalate	1000	1010		ug/Kg		101	55 - 135
Carbazole	1000	998		ug/Kg		100	69 - 121
Chrysene	1000	942		ug/Kg		94	65 - 120
Di-n-butyl phthalate	1000	946		ug/Kg		95	67 - 132
Di-n-octyl phthalate	1000	924		ug/Kg		92	58 - 132
Dibenz(a,h)anthracene	1000	938		ug/Kg		94	58 - 130
Dibenzofuran	1000	935		ug/Kg		94	65 - 120
Diethyl phthalate	1000	941		ug/Kg		94	62 - 124
Dimethyl phthalate	1000	937		ug/Kg		94	52 - 123
Fluoranthene	1000	894		ug/Kg		89	67 - 123
Fluorene	1000	957		ug/Kg		96	64 - 120
Hexachlorobenzene	1000	934		ug/Kg		93	57 - 131
Hexachlorobutadiene	1000	859		ug/Kg		86	56 - 120
Hexachlorocyclopentadiene	1000	623		ug/Kg		62	1 - 153
Hexachloroethane	1000	899		ug/Kg		90	53 - 120
Indeno[1,2,3-cd]pyrene	1000	930		ug/Kg		93	55 - 133
Isophorone	1000	922		ug/Kg		92	63 - 120
N-Nitrosodi-n-propylamine	1000	974		ug/Kg		97	34 - 150
N-Nitrosodimethylamine	1000	900		ug/Kg		90	26 - 140
N-Nitrosodiphenylamine	3170	2990		ug/Kg		94	16 - 160
Naphthalene	1000	894		ug/Kg		89	59 - 120
Nitrobenzene	1000	886		ug/Kg		89	53 - 125
Pentachlorophenol	2000	1840		ug/Kg		92	30 - 136
Phenanthrene	1000	934		ug/Kg		93	62 - 130
Phenol	1000	905		ug/Kg		91	54 - 120
Pyrene	1000	980		ug/Kg		98	57 - 127
1,2,4-Trichlorobenzene	1000	886		ug/Kg		89	62 - 120
1,2-Dichlorobenzene	1000	884		ug/Kg		88	58 - 120
2,4-Dinitrotoluene	1000	962		ug/Kg		96	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*105*		*37 - 120*
Terphenyl-d14 (Surr)	*110*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*109*		*32 - 133*
2-Fluorobiphenyl	*101*		*44 - 120*
2-Fluorophenol (Surr)	*100*		*25 - 120*
Nitrobenzene-d5 (Surr)	*100*		*27 - 120*

Lab Sample ID: MB 400-258202/1-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4,5-Trichlorophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258202/1-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4-Dichlorophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4-Dimethylphenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4-Dinitrophenol	<30		30		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Chlorophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Methylnaphthalene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Methylphenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Nitroaniline	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Nitrophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
3 & 4 Methylphenol	<20		20		ug/L		05/22/15 12:59	05/27/15 15:54	1
3,3'-Dichlorobenzidine	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Bromophenyl phenyl ether	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Chloro-3-methylphenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Chloroaniline	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Nitroaniline	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Nitrophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Acenaphthene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Acenaphthylene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Anthracene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzidine	<25		25		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[a]anthracene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[a]pyrene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[b]fluoranthene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[g,h,i]perylene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[k]fluoranthene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Bis(2-chloroethyl)ether	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Butyl benzyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Carbazole	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Chrysene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Di-n-butyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Di-n-octyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Dibenz(a,h)anthracene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Dibenzofuran	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Diethyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Dimethyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Fluoranthene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Fluorene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Hexachlorobenzene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Hexachlorocyclopentadiene	<20		20		ug/L		05/22/15 12:59	05/27/15 15:54	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Isophorone	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
N-Nitrosodimethylamine	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
N-Nitrosodiphenylamine	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258202/1-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Nitrobenzene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Pentachlorophenol	<20		20		ug/L		05/22/15 12:59	05/27/15 15:54	1
Phenanthrene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Phenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Pyrene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4-Dinitrotoluene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,6-Dinitrotoluene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Dinoseb	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*95*		*10 - 120*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
Terphenyl-d14 (Surr)	*139*	*X*	*53 - 125*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 135*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
2-Fluorobiphenyl	*102*		*34 - 120*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
2-Fluorophenol (Surr)	*87*		*10 - 120*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
Nitrobenzene-d5 (Surr)	*116*		*27 - 120*	*05/22/15 12:59*	*05/27/15 15:54*	*1*

Lab Sample ID: LCS 400-258202/2-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	30.0	20.9		ug/L		70	59 - 120
2,4,5-Trichlorophenol	30.0	22.1		ug/L		74	53 - 130
2,4,6-Trichlorophenol	30.0	21.8		ug/L		73	52 - 131
2,4-Dichlorophenol	30.0	21.5		ug/L		72	52 - 125
2,4-Dimethylphenol	30.0	21.0		ug/L		70	52 - 121
2,4-Dinitrophenol	78.4	43.6		ug/L		56	22 - 146
2-Chlorophenol	30.0	19.8		ug/L		66	45 - 120
2-Nitrophenol	30.0	21.0		ug/L		70	47 - 129
Acenaphthene	30.0	21.6		ug/L		72	57 - 125
Acenaphthylene	30.0	22.0		ug/L		73	59 - 125
Anthracene	30.0	23.3		ug/L		78	65 - 128
Benzo[a]anthracene	30.0	23.4		ug/L		78	63 - 126
Benzo[a]pyrene	30.0	24.3		ug/L		81	61 - 125
Benzo[b]fluoranthene	30.0	24.7		ug/L		82	49 - 140
Benzo[g,h,i]perylene	30.0	21.5		ug/L		72	51 - 149
Benzo[k]fluoranthene	30.0	25.7		ug/L		86	56 - 138
Bis(2-chloroethoxy)methane	30.0	21.1		ug/L		70	54 - 123
Bis(2-chloroethyl)ether	30.0	20.7		ug/L		69	47 - 120
Bis(2-ethylhexyl) phthalate	30.0	24.9		ug/L		83	62 - 140
Butyl benzyl phthalate	30.0	25.5		ug/L		85	51 - 150
Carbazole	30.0	24.9		ug/L		83	57 - 136
Chrysene	30.0	23.7		ug/L		79	60 - 126
Di-n-butyl phthalate	30.0	23.4		ug/L		78	59 - 144
Di-n-octyl phthalate	30.0	24.2		ug/L		81	55 - 140
Dibenz(a,h)anthracene	30.0	22.4		ug/L		75	57 - 133

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258202/2-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dibenzofuran	30.0	22.0		ug/L		73	62 - 124
Diethyl phthalate	30.0	23.1		ug/L		77	55 - 140
Dimethyl phthalate	30.0	22.5		ug/L		75	50 - 133
Fluoranthene	30.0	22.6		ug/L		75	66 - 131
Fluorene	30.0	22.8		ug/L		76	60 - 132
Hexachlorobenzene	30.0	21.6		ug/L		72	60 - 138
Hexachlorocyclopentadiene	30.0	9.06	J	ug/L		30	1 - 139
Indeno[1,2,3-cd]pyrene	30.0	22.6		ug/L		75	55 - 135
Isophorone	30.0	22.1		ug/L		74	57 - 122
N-Nitrosodi-n-propylamine	30.0	23.5		ug/L		78	41 - 143
N-Nitrosodimethylamine	30.0	21.0		ug/L		70	21 - 134
N-Nitrosodiphenylamine	60.0	47.0		ug/L		78	10 - 185
Naphthalene	30.0	18.7		ug/L		62	55 - 125
Nitrobenzene	30.0	21.1		ug/L		70	52 - 128
Pentachlorophenol	60.0	46.2		ug/L		77	38 - 138
Phenanthrene	30.0	22.7		ug/L		76	64 - 133
Phenol	30.0	17.2		ug/L		57	37 - 120
Pyrene	30.0	24.4		ug/L		81	55 - 142
2,4-Dinitrotoluene	30.0	23.9		ug/L		80	54 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*67*		*10 - 120*
Terphenyl-d14 (Surr)	*91*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 135*
2-Fluorobiphenyl	*74*		*34 - 120*
2-Fluorophenol (Surr)	*61*		*10 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Lab Sample ID: LCSD 400-258202/3-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258202

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	30.0	28.2		ug/L		94	59 - 120	30	30
2,4,5-Trichlorophenol	30.0	29.2		ug/L		97	53 - 130	28	30
2,4,6-Trichlorophenol	30.0	29.5		ug/L		98	52 - 131	30	30
2,4-Dichlorophenol	30.0	29.1		ug/L		97	52 - 125	30	30
2,4-Dimethylphenol	30.0	28.6	*	ug/L		95	52 - 121	31	30
2,4-Dinitrophenol	78.4	57.0		ug/L		73	22 - 146	27	30
2-Chlorophenol	30.0	26.5		ug/L		88	45 - 120	29	30
2-Nitrophenol	30.0	27.6		ug/L		92	47 - 129	27	30
Acenaphthene	30.0	29.2		ug/L		97	57 - 125	30	30
Acenaphthylene	30.0	30.0	*	ug/L		100	59 - 125	31	30
Anthracene	30.0	31.5		ug/L		105	65 - 128	30	30
Benzo[a]anthracene	30.0	31.3		ug/L		104	63 - 126	29	30
Benzo[a]pyrene	30.0	32.4		ug/L		108	61 - 125	29	30
Benzo[b]fluoranthene	30.0	34.1	*	ug/L		114	49 - 140	32	30
Benzo[g,h,i]perylene	30.0	28.2		ug/L		94	51 - 149	27	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258202/3-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258202

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[k]fluoranthene	30.0	33.3		ug/L		111	56 - 138	26	30
Bis(2-chloroethoxy)methane	30.0	28.5		ug/L		95	54 - 123	30	30
Bis(2-chloroethyl)ether	30.0	28.0		ug/L		93	47 - 120	30	30
Bis(2-ethylhexyl) phthalate	30.0	33.6		ug/L		112	62 - 140	30	30
Butyl benzyl phthalate	30.0	34.3		ug/L		114	51 - 150	29	30
Carbazole	30.0	33.3		ug/L		111	57 - 136	29	30
Chrysene	30.0	31.4		ug/L		105	60 - 126	28	30
Di-n-butyl phthalate	30.0	31.7		ug/L		106	59 - 144	30	30
Di-n-octyl phthalate	30.0	32.4		ug/L		108	55 - 140	29	30
Dibenz(a,h)anthracene	30.0	29.7		ug/L		99	57 - 133	28	30
Dibenzofuran	30.0	29.9	*	ug/L		100	62 - 124	31	30
Diethyl phthalate	30.0	30.9		ug/L		103	55 - 140	29	30
Dimethyl phthalate	30.0	30.2		ug/L		101	50 - 133	29	30
Fluoranthene	30.0	30.3		ug/L		101	66 - 131	29	30
Fluorene	30.0	30.7		ug/L		102	60 - 132	30	30
Hexachlorobenzene	30.0	30.6	*	ug/L		102	60 - 138	34	30
Hexachlorocyclopentadiene	30.0	12.5	J *	ug/L		42	1 - 139	32	30
Indeno[1,2,3-cd]pyrene	30.0	29.4		ug/L		98	55 - 135	26	30
Isophorone	30.0	29.8		ug/L		99	57 - 122	30	30
N-Nitrosodi-n-propylamine	30.0	31.3		ug/L		104	41 - 143	29	30
N-Nitrosodimethylamine	30.0	27.8		ug/L		93	21 - 134	28	30
N-Nitrosodiphenylamine	60.0	63.7		ug/L		106	10 - 185	30	30
Naphthalene	30.0	25.1		ug/L		84	55 - 125	29	30
Nitrobenzene	30.0	27.9		ug/L		93	52 - 128	28	30
Pentachlorophenol	60.0	61.3		ug/L		102	38 - 138	28	30
Phenanthrene	30.0	30.7		ug/L		102	64 - 133	30	30
Phenol	30.0	23.8	*	ug/L		79	37 - 120	32	30
Pyrene	30.0	33.0		ug/L		110	55 - 142	30	30
2,4-Dinitrotoluene	30.0	31.8		ug/L		106	54 - 141	28	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*10 - 120*
Terphenyl-d14 (Surr)	*117*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*113*		*15 - 135*
2-Fluorobiphenyl	*100*		*34 - 120*
2-Fluorophenol (Surr)	*79*		*10 - 120*
Nitrobenzene-d5 (Surr)	*99*		*27 - 120*

Lab Sample ID: MB 400-259035/1-A
Matrix: Water
Analysis Batch: 259300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
1,4-Dichlorobenzene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
Hexachlorobutadiene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
Hexachloroethane	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
1,2,4-Trichlorobenzene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259035/1-A
Matrix: Water
Analysis Batch: 259300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*88*		*10 - 120*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
Terphenyl-d14 (Surr)	*133*	*X*	*53 - 125*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*15 - 135*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
2-Fluorobiphenyl	*96*		*34 - 120*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
2-Fluorophenol (Surr)	*66*		*10 - 120*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
Nitrobenzene-d5 (Surr)	*98*		*27 - 120*	*05/29/15 11:19*	*06/01/15 11:39*	*1*

Lab Sample ID: LCS 400-259035/2-A
Matrix: Water
Analysis Batch: 259300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	30.0	20.5		ug/L		68	51 - 120
Hexachlorobutadiene	30.0	21.7		ug/L		72	48 - 126
Hexachloroethane	30.0	17.3		ug/L		58	46 - 121
1,2,4-Trichlorobenzene	30.0	23.5		ug/L		78	57 - 120
1,2-Dichlorobenzene	30.0	21.6		ug/L		72	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*81*		*10 - 120*
Terphenyl-d14 (Surr)	*103*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*108*		*15 - 135*
2-Fluorobiphenyl	*99*		*34 - 120*
2-Fluorophenol (Surr)	*70*		*10 - 120*
Nitrobenzene-d5 (Surr)	*94*		*27 - 120*

Lab Sample ID: LCSD 400-259035/3-A
Matrix: Water
Analysis Batch: 259300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259035

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	30.0	20.1		ug/L		67	51 - 120	2	30
Hexachlorobutadiene	30.0	21.6		ug/L		72	48 - 126	1	30
Hexachloroethane	30.0	17.2		ug/L		57	46 - 121	1	30
1,2,4-Trichlorobenzene	30.0	23.5		ug/L		78	57 - 120	0	30
1,2-Dichlorobenzene	30.0	21.3		ug/L		71	53 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*74*		*10 - 120*
Terphenyl-d14 (Surr)	*102*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*104*		*15 - 135*
2-Fluorobiphenyl	*98*		*34 - 120*
2-Fluorophenol (Surr)	*68*		*10 - 120*
Nitrobenzene-d5 (Surr)	*91*		*27 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-258140/19-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1221	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1232	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1242	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1248	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1254	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1260	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*30 - 150*	*05/22/15 08:08*	*05/27/15 03:44*	*1*
Tetrachloro-m-xylene	*53*		*43 - 142*	*05/22/15 08:08*	*05/27/15 03:44*	*1*

Lab Sample ID: LCS 400-258140/18-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258140

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	176		ug/Kg		105	54 - 126		
PCB-1260			167	205		ug/Kg		123	56 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*30 - 150*
Tetrachloro-m-xylene	*99*		*43 - 142*

Lab Sample ID: 400-105842-2 MS
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: B-2 0'-11'
Prep Type: Total/NA
Prep Batch: 258140

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	<11		215	234		ug/Kg	☼	109	15 - 150		
PCB-1260	<11		215	268		ug/Kg	☼	125	21 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*128*		*30 - 150*
Tetrachloro-m-xylene	*102*		*43 - 142*

Lab Sample ID: 400-105842-2 MSD
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: B-2 0'-11'
Prep Type: Total/NA
Prep Batch: 258140

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<11		215	184		ug/Kg	☼	86	15 - 150	24	42
PCB-1260	<11		215	223		ug/Kg	☼	104	21 - 150	18	29

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*104*		*30 - 150*
Tetrachloro-m-xylene	*77*		*43 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 400-258146/1-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1221	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1232	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1242	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1248	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1254	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1260	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*10 - 125*	*05/22/15 08:24*	*05/29/15 12:42*	*1*
Tetrachloro-m-xylene	*90*		*46 - 150*	*05/22/15 08:24*	*05/29/15 12:42*	*1*

Lab Sample ID: LCS 400-258146/4-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258146

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	4.93		ug/L		99	54 - 126		
PCB-1260			5.00	4.48		ug/L		90	56 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*10 - 125*
Tetrachloro-m-xylene	*90*		*46 - 150*

Lab Sample ID: LCSD 400-258146/5-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	5.08		ug/L		102	54 - 126	3	40
PCB-1260			5.00	5.00		ug/L		100	56 - 139	11	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*10 - 125*
Tetrachloro-m-xylene	*91*		*46 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-257943/1-A
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<9.9		9.9		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Arsenic	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Beryllium	<0.30		0.30		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Cadmium	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-257943/1-A
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<0.99		0.99		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Copper	<0.99		0.99		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Nickel	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Lead	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Antimony	<4.9		4.9		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Silver	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Selenium	<0.99		0.99		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Thallium	<0.99		0.99		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Zinc	<2.0		2.0		mg/Kg		05/21/15 11:41	05/23/15 14:07	1

Lab Sample ID: LCS 400-257943/2-A
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	996	1040		mg/Kg		104	80 - 120
Arsenic	99.6	101		mg/Kg		101	80 - 120
Beryllium	49.8	50.7		mg/Kg		102	80 - 120
Cadmium	49.8	49.1		mg/Kg		99	80 - 120
Chromium	99.6	103		mg/Kg		103	80 - 120
Copper	99.6	105		mg/Kg		105	80 - 120
Nickel	99.6	97.2		mg/Kg		98	80 - 120
Lead	99.6	97.4		mg/Kg		98	80 - 120
Antimony	99.6	102		mg/Kg		102	80 - 120
Silver	49.8	48.4		mg/Kg		97	80 - 120
Selenium	99.6	97.3		mg/Kg		98	80 - 120
Thallium	99.6	97.6		mg/Kg		98	80 - 120
Zinc	99.6	101		mg/Kg		101	80 - 120

Lab Sample ID: 400-105842-1 MS
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 257943

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	420	F1	1030	2200	F1	mg/Kg	☼	174	75 - 125
Arsenic	<0.52		103	101		mg/Kg	☼	99	75 - 125
Beryllium	<0.31		51.3	51.0		mg/Kg	☼	99	75 - 125
Cadmium	<0.52		51.3	49.5		mg/Kg	☼	97	75 - 125
Chromium	1.4		103	106		mg/Kg	☼	102	75 - 125
Copper	<1.0		103	105		mg/Kg	☼	102	75 - 125
Nickel	<0.52		103	101		mg/Kg	☼	98	75 - 125
Lead	1.3		103	102		mg/Kg	☼	98	75 - 125
Antimony	<5.2		103	100		mg/Kg	☼	98	75 - 125
Silver	<0.52		51.3	49.7		mg/Kg	☼	97	75 - 125
Selenium	<1.0		103	97.5		mg/Kg	☼	95	75 - 125
Thallium	<1.0		103	99.8		mg/Kg	☼	97	75 - 125
Zinc	<2.1		103	104		mg/Kg	☼	100	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 400-105842-1 MSD
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 257943

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aluminum	420	F1	1020	2130	F1	mg/Kg	☼	168	75 - 125	3	20
Arsenic	<0.52		102	99.3		mg/Kg	☼	98	75 - 125	2	20
Beryllium	<0.31		50.9	50.6		mg/Kg	☼	99	75 - 125	1	20
Cadmium	<0.52		50.9	48.6		mg/Kg	☼	95	75 - 125	2	20
Chromium	1.4		102	103		mg/Kg	☼	100	75 - 125	2	20
Copper	<1.0		102	105		mg/Kg	☼	102	75 - 125	1	20
Nickel	<0.52		102	98.4		mg/Kg	☼	96	75 - 125	2	20
Lead	1.3		102	99.5		mg/Kg	☼	96	75 - 125	2	20
Antimony	<5.2		102	99.0		mg/Kg	☼	97	75 - 125	1	20
Silver	<0.52		50.9	49.5		mg/Kg	☼	97	75 - 125	0	20
Selenium	<1.0		102	95.9		mg/Kg	☼	94	75 - 125	2	20
Thallium	<1.0		102	97.6		mg/Kg	☼	96	75 - 125	2	20
Zinc	<2.1		102	102		mg/Kg	☼	98	75 - 125	2	20

Lab Sample ID: MB 400-257825/1-A
Matrix: Water
Analysis Batch: 258277

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257825

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:03	1
Beryllium	<0.0030		0.0030		mg/L		05/20/15 11:50	05/22/15 16:03	1
Cadmium	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:03	1
Chromium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:03	1
Copper	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:03	1
Nickel	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:03	1
Lead	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:03	1
Antimony	<0.050		0.050		mg/L		05/20/15 11:50	05/22/15 16:03	1
Silver	<0.0050		0.0050		mg/L		05/20/15 11:50	05/22/15 16:03	1
Selenium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:03	1
Thallium	<0.010		0.010		mg/L		05/20/15 11:50	05/22/15 16:03	1
Zinc	<0.020		0.020		mg/L		05/20/15 11:50	05/22/15 16:03	1

Lab Sample ID: LCS 400-257825/2-A
Matrix: Water
Analysis Batch: 258277

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.995		mg/L		99	80 - 120
Beryllium	0.500	0.489		mg/L		98	80 - 120
Cadmium	0.500	0.490		mg/L		98	80 - 120
Chromium	1.00	0.977		mg/L		98	80 - 120
Copper	1.00	1.01		mg/L		101	80 - 120
Nickel	1.00	0.969		mg/L		97	80 - 120
Lead	1.00	0.986		mg/L		99	80 - 120
Antimony	1.00	1.00		mg/L		100	80 - 120
Silver	0.500	0.497		mg/L		99	80 - 120
Selenium	1.00	1.02		mg/L		102	80 - 120
Thallium	1.00	0.991		mg/L		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-257825/2-A
Matrix: Water
Analysis Batch: 258277

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257825

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Zinc	1.00	1.03		mg/L		103	80 - 120

Lab Sample ID: 400-105842-3 MS
Matrix: Water
Analysis Batch: 258277

Client Sample ID: TW-1
Prep Type: Total Recoverable
Prep Batch: 257825

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.0050		1.00	1.00		mg/L		100	75 - 125
Beryllium	<0.0030		0.500	0.498		mg/L		100	75 - 125
Cadmium	<0.0050		0.500	0.493		mg/L		99	75 - 125
Chromium	<0.010		1.00	0.987		mg/L		98	75 - 125
Copper	<0.010		1.00	0.992		mg/L		99	75 - 125
Nickel	<0.0050		1.00	0.986		mg/L		99	75 - 125
Lead	0.0075		1.00	1.01		mg/L		100	75 - 125
Antimony	<0.050		1.00	1.02		mg/L		102	75 - 125
Silver	<0.0050		0.500	0.510		mg/L		102	75 - 125
Selenium	<0.010		1.00	1.02		mg/L		101	75 - 125
Thallium	<0.010		1.00	0.995		mg/L		99	75 - 125
Zinc	<0.020		1.00	1.01		mg/L		101	75 - 125

Lab Sample ID: 400-105842-3 MSD
Matrix: Water
Analysis Batch: 258277

Client Sample ID: TW-1
Prep Type: Total Recoverable
Prep Batch: 257825

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.0050		1.00	1.02		mg/L		102	75 - 125	1	20
Beryllium	<0.0030		0.500	0.498		mg/L		100	75 - 125	0	20
Cadmium	<0.0050		0.500	0.497		mg/L		99	75 - 125	1	20
Chromium	<0.010		1.00	0.987		mg/L		98	75 - 125	0	20
Copper	<0.010		1.00	1.03		mg/L		103	75 - 125	4	20
Nickel	<0.0050		1.00	0.983		mg/L		98	75 - 125	0	20
Lead	0.0075		1.00	1.01		mg/L		100	75 - 125	0	20
Antimony	<0.050		1.00	1.02		mg/L		102	75 - 125	1	20
Silver	<0.0050		0.500	0.506		mg/L		101	75 - 125	1	20
Selenium	<0.010		1.00	1.03		mg/L		103	75 - 125	1	20
Thallium	<0.010		1.00	1.00		mg/L		100	75 - 125	1	20
Zinc	<0.020		1.00	1.01		mg/L		101	75 - 125	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-257474/14-A
Matrix: Water
Analysis Batch: 258071

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257474

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/18/15 08:57	05/21/15 14:02	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 400-257474/15-A
Matrix: Water
Analysis Batch: 258071

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257474

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	0.889		ug/L		88	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-257977/14-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.012		0.012		mg/Kg		05/21/15 09:12	05/26/15 12:05	1

Lab Sample ID: LCS 400-257977/15-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0656	0.0645		mg/Kg		98	80 - 120

Client Sample ID: B-1 0'-11'

Lab Sample ID: 400-105842-1

Date Collected: 05/18/15 10:10

Matrix: Solid

Date Received: 05/19/15 08:40

Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			258893	05/28/15 11:40	CAR	TAL PEN
Total/NA	Analysis	8260B		1	258842	05/28/15 20:25	CAR	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 09:57	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 14:43	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 05:49	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 14:23	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:10	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 10:25	CMW	TAL PEN

Client Sample ID: B-2 0'-11'

Lab Sample ID: 400-105842-2

Date Collected: 05/18/15 10:10

Matrix: Solid

Date Received: 05/19/15 08:40

Percent Solids: 77.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			258893	05/28/15 11:40	CAR	TAL PEN
Total/NA	Analysis	8260B		1	258842	05/28/15 20:51	CAR	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 09:57	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 15:19	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 05:24	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 14:39	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:11	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 10:26	CMW	TAL PEN

Client Sample ID: TW-1

Lab Sample ID: 400-105842-3

Date Collected: 05/18/15 10:57

Matrix: Water

Date Received: 05/19/15 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259067	05/29/15 22:43	CLN	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 14:11	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	258565	05/27/15 17:42	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 17:01	MAM	TAL PEN
Total Recoverable	Prep	3005A			257825	05/20/15 11:50	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258277	05/22/15 16:10	GESP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Austal USA

TestAmerica Job ID: 400-105842-1

Client Sample ID: TW-1

Lab Sample ID: 400-105842-3

Date Collected: 05/18/15 10:57

Matrix: Water

Date Received: 05/19/15 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			257474	05/20/15 09:49	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258071	05/21/15 14:49	JAP	TAL PEN

Client Sample ID: TW-2

Lab Sample ID: 400-105842-4

Date Collected: 05/18/15 10:54

Matrix: Water

Date Received: 05/19/15 08:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259067	05/29/15 23:09	CLN	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 14:49	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	258565	05/27/15 18:18	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 17:27	MAM	TAL PEN
Total Recoverable	Prep	3005A			257825	05/20/15 11:50	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258277	05/22/15 16:26	GESP	TAL PEN
Total/NA	Prep	7470A			257474	05/20/15 13:50	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258071	05/21/15 14:50	JAP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRO

400-105842 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 11
Company: Thompson Engineering Inc				Job #:

Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT
City: Mobile	TAT Requested (days): Standard TAT
State, Zip: AL, 36606	
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required
Email: mmontgomery@thompsonengineering.com	WO #:
Project Name: Thompson Engineering	Project #: 40003023
Site: Austal USA	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexan
B - NaOH	N - None
C - Zn Acetate	O - AsNaO
D - Nitric Acid	P - Na2O4
E - NaHSO4	Q - Na2SO
F - MeOH	R - Na2S2O
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, T471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCsTarget Compound List	6010B, T470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
B-1 0'-11'	5/18/15	1010	C	Solid	N	N	1	1	✓	✓	✓	✓	3	
B-2 0'-11'	5/18/15	1010	C	Solid	N	N	1	1	✓	✓	✓	✓	3	
TW-1	5/18/15	1057	G	~~Solid~~ Water	N	N	✓	✓	3	2	1	1	7	
TW-2	5/18/15	1154	G	~~Solid~~ Water	N	N	✓	✓	3	2	1	1	7	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Melissa M. Montgomery	5/18/2015 16:58	Thompson Engineering		5/18/2015 1658	Thompson Eng.
Relinquished by:	Date/Time: 5/19/15 @ 840	Company	Received by: Julia Dodrill	Date/Time: 5/19/15 @ 840	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 5.1°C #5592

400 - ~~105804~~ 105842

HARRISON BROTHERS PROPERTY

1.1 Project Background

The Harrison Brothers property is located along the western side of Dunlap Drive at the intersection of Dunlap Drive and Addsco Road in Mobile, Alabama (Figures 1 and 2, Appendix A). The site is currently an unoccupied rental property located along the Mobile River. The property at one time was used as a barge repair and maintenance facility. Historical aerial photographs identified the presence of three surface impoundments which according to interviews conducted during previous environmental investigations on adjacent properties contained petroleum hydrocarbons removed from barges during repair and maintenance operations. The proposed I-10 Mobile River bridge project limits indicate that the southern portion of the property including the surface impoundments will be impacted. Surface elevations at the project site are approximately 1 to15 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on May 18 and 19, 2015. Twenty seven borings (SB-1 through SB-19, B-1/TW-1 through B-7/TW-7, and DB-1) were advanced on-site via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 4 feet below ground surface (bgs) in soil boring SB-9, SB-10, SB-11, SB-12, SB-14, SB-15, DB-1, 8 feet bgs in borings B-4/TW-4, B-5/TW-5, B-6/TW-6, SB-13, SB-16, SB-17, 12 feet in borings SB-1 through SB-8, SB-18, SB-19 and 16 feet bgs in borings B-1/TW-1, B-2/TW-2, B-3/TW-3, and B-7/TW-7 by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from each boring from the ground surface to the top of the water table. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8082A), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, seven borings (B-1 through B-7) were advanced an additional four feet into the water table and temporary 1-inch diameter piezometers (TW-1 through TW-7) were installed with five feet of 1-inch diameter schedule 40 PVC with 0.010 inch slotted screen. Following temporary well installation, groundwater samples were collected with the use of a peristaltic pump after first developing and purging the wells. During well development and purging, pH, temperature, specific conductivity, dissolved oxygen, and turbidity were collected after each well volume and measurements were recorded in a bound field log book. Each well was purged until the field parameters stabilized. The final well volume field measurements are included in Appendix B.

Groundwater samples were collected in appropriate laboratory supplied containers. After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the COC and the containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Groundwater samples were submitted to the laboratory to be analyzed for the following chemical analyses: VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), PCBs (EPA Method 8082A), and metals (EPA Methods 6010B/7470A).

Upon completion of groundwater sampling procedures, the temporary wells were removed from the subsurface and all soil boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of clays and sands. Soil boring logs and temporary well construction details are presented in Appendix C.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, PCBs, and metals for soil and groundwater is included in Appendix D (Log No.: 400-105845-1). The soil analytical results indicated non-detectable concentrations of SVOCs in all soil samples collected. Acetone was reported in soil samples collected from soil borings SB-9, SB-10, and SB-13 but at levels below the ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). PCB-1260 was detected in soil boring SB-10 but at a concentration below the PSVs and RSLs. Aluminum, chromium, and lead were reported in all twenty seven soil samples collected. Aluminum concentrations exceeded the EPA and ADEM residential screening values in the soil samples collected from soil borings SB-11, SB-12, SB-13 and boring B-4. The chromium concentration in boring B-4 exceeded both the ADEM residential and commercial PSVs. There are no established EPA RSLs for chromium. All twenty seven lead concentrations were below the EPA and ADEM screening values. Antimony was reported above the ADEM residential PSV in the soil sample collected from soil boring SB-9. Arsenic was reported above the residential and industrial/commercial RSLs and PSVs in soil samples collected from soil borings SB-9, SB-10, SB-11, SB-12, SB-13, SB-15, SB-16, and borings B-4 and B-5. Arsenic was reported above the residential RSLs and PSVs in soils samples collected from soil boring SB-14 and boring B-6; however, the reported concentrations were below the industrial/commercial RSLs and PSVs. All other soil samples collected for antimony and arsenic were reported as

non-detect; however, the non-detectable values are above their respective ADEM residential PSVs. Beryllium was reported in soil samples collected from soil borings SB-11, SB-12, and SB-13 and boring B-5 at concentrations below the EPA RSLs and ADEM PSVs. Copper was reported in soil borings SB-2, SB-3, SB-4, SB-9, SB-10, SB-11, SB-12, SB-13, SB-14, SB-15, SB-16, and SB-17 and borings B-4, B-5, B-6, B-7 and DB-1 at concentrations below the EPA RSLs and ADEM PSVs. Mercury was detected in soil borings SB-9, SB-10, SB-11, SB-13, and SB-15 and boring B-6 at concentrations below the EPA RSLs and ADEM PSVs. Nickel was detected in soil borings SB-2, SB-3, SB-4, SB-5, SB-6, SB-9, SB-10, SB-11, SB-12, SB-13, and SB-15 and borings B-2, B-4, B-5, B-6, and DB-1 at concentrations below the EPA RSLs and ADEM PSVs. Zinc was detected in soil borings SB-2, SB-3, SB-4, SB-5, SB-7, SB-8, SB-9, SB-10, SB-11, SB-12, SB-13, SB-14, SB-15, SB-16, SB-17, and SB-19 and borings B-3, B-4, B-5, B-6, B-7, and DB-1 at concentrations below the EPA RSLs and ADEM PSVs. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

The groundwater analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBS in all seven groundwater samples collected. Chromium and copper were reported in the groundwater samples collected from temporary wells TW-5 and TW-7 but at levels below their respective ADEM PSV and the EPA Maximum Contaminant Level (MCL). Lead was reported in all seven groundwater samples collected. Temporary wells TW-5 and TW-7 had concentrations of lead that were above the EPA MCL and ADEM PSV. Nickel and zinc were detected in the groundwater samples collected from temporary wells TW-5 and TW-7. Both nickel and zinc concentrations were reported above the EPA MCL and ADEM PSV in temporary well TW-5. The groundwater analytical results compared to the ADEM PSVs and EPA RSLs or MCLs (if available) are provided in Table 2.

1.4 Conclusions

- Detectable concentrations of acetone were reported in three soil samples but at levels below ADEM and EPA regulatory screening values. PCB-120 was reported in one soil sample also below ADEM and EPA regulatory screening values. Lead was reported in all twenty seven soil samples collected but at concentrations below the ADEM and EPA regulatory screening values. Detectable concentrations of beryllium, copper, mercury, nickel, and zinc were reported in one or more of the soil samples collected but at levels below their respective EPA and ADEM regulatory screening values.

- Detectable concentrations of aluminum were reported in all twenty seven soil samples collected. Aluminum concentrations exceeded the residential ADEM PSV of 7,600 milligrams per kilogram (mg/kg) and the residential EPA RSL of 7,700 mg/kg in soil boring SB-11 (7,700 mg/kg), SB-12 (8,600 mg/kg), and SB-13 (17,000 mg/kg) and boring B-4 (12,000 mg/kg); however, the reported concentrations were below the industrial/commercial EPA and ADEM regulatory screening values of 100,000 mg/kg and 110,000 mg/kg, respectively. The United States Geological Survey (USGS) has reported an average concentration of aluminum for the conterminous United States as 72,000 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals throughout the United States; however, for Mobile

County, aluminum values are determined on a percent by weight basis.

- Detectable concentrations of chromium were reported in all twenty seven soil samples collected. The chromium concentration in boring B-4 of 120 mg/kg exceeded both the residential PSV of 30 mg/kg and the commercial PSV of 64 mg/kg for soils. The USGS has reported an average concentration of chromium for the conterminous United States as 54 mg/kg. The USGS National Geochemical Survey does not provide values for chromium in Mobile County, Alabama.

- The antimony concentration in soil boring SB-9 of 24 mg/kg exceeded the residential ADEM PSV of 3.1mg/kg, but not the commercial PSV of 41 mg/kg, the EPA residential RSL of 31 mg/kg or the industrial RSL of 47 mg/kg. The USGS has reported an average concentration of antimony for the conterminous United States as 0.66 mg/kg. The USGS National Geochemical Survey does not provide values for antimony in Mobile County, Alabama.

- Arsenic was reported above the residential and industrial/commercial RSLs and PSVs in soil samples collected from soil borings SB-9, SB-10, SB-11, SB-12, SB-13, SB-15, SB-16, and borings B-4 and B-5. Arsenic was reported above the residential RSL and PSV in soils samples collected from soil boring SB-14 and boring B-6; however, the reported concentrations were below the industrial/commercial RSL and PSV. The detected arsenic concentrations ranged from 0.91 mg/kg to 9.9 mg/kg. The USGS has reported an average concentration of arsenic for the conterminous United States as 7.2 mg/kg. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Groundwater was encountered at a depth of approximately 4 to 11 feet bgs. Detectable concentrations of lead were reported in all seven groundwater samples collected but only exceeded ADEM and EPA regulatory screening values in temporary wells TW-5 and TW-7. Chromium, copper, nickel, and zinc were also reported in temporary wells TW-5 and TW-7; however only nickel and zinc in temporary well TW-5 exceeded EPA and ADEM regulatory screening values.

1.5 Recommendations

Based on review of the analytical results of the soil and groundwater samples collected on May 18, and 19, 2015, some metals specifically arsenic and chromium in soil and lead, nickel, and zinc in groundwater have detectable concentrations above EPA and ADEM industrial/commercial regulatory screening values. The detected arsenic values in soils are within the range historically reported in Mobile County, Alabama. Chromium concentrations in soil exceeded the ADEM commercial screening level at one sampling location. Thompson Engineering recommends that dust suppression efforts should be made to protect personnel in the area from dust inhalation. The groundwater results suggest that elevated turbidity, i.e., fines and sediment inherent to the sample, contribute to a portion of

the data results and not entirely the dissolved fraction of inorganics in groundwater. Nevertheless, if groundwater is encountered during subsurface work should not be used for potable purposes.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
Harrison Brothers Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID																							
							SB-1 0'-11'	SB-2 0'-11'	SB-3 0'-8'	SB-4 0'-8'	SB-5 0'-9'	SB-6 0'-8'	SB-7 0'-8'	SB-8 0'-8'	SB-9 0'-4'	SB-10 0'-3.5'	SB-11 0'-3'	SB-12 0'-3'	SB-13 0'-4'	SB-14 0'-4'	SB-15 0'-4'	SB-16 0'-4'	SB-17 0'-5'	SB-18 0'-11'	SB-19 0'-11'	B-1 0'-10.5'	B-2 0'-8'	B-3 0'-8'	B-4 0'-4'	B-5 0'-4'	B-6 0'-4'	B-7 0'-11'	DB-1 0'-4'
Volatile Organics GC/MS																														
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006*	<0.0088*	<0.0057*	<0.006*	<0.0058*	<0.0066*	<0.0059*	<0.0055*	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071*	<0.0058*	<0.0056*	<0.007
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006*	<0.0088*	<0.0057*	<0.006*	<0.0058*	<0.0066*	<0.0059*	<0.0055*	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071*	<0.0058*	<0.0056*	<0.007
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006 F2	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006 F2	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.026	<0.029	<0.026	<0.028	<0.036	<0.028	<0.026	<0.026	<0.031	<0.031	<0.039	<0.030	<0.044	<0.028	<0.030	<0.029	<0.033	<0.029	<0.027	<0.030	<0.026	<0.034	<0.032	<0.0036	<0.029	<0.028	<0.035
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<0.026	<0.029	<0.026	<0.028	<0.036	<0.028	<0.026	<0.026	0.065	0.091	<0.039	<0.030 F2	0.086	<0.028	<0.030	<0.029	<0.033	<0.029	<0.027	<0.030	<0.026	<0.034	0.063	<0.0036	<0.029	<0.028	<0.035
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052 F1	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.026	<0.029	<0.026	<0.028	<0.036	<0.028	<0.026	<0.026	<0.031	<0.031*	<0.039	<0.030*	<0.044*	<0.028*	<0.030*	<0.029*	<0.033*	<0.029*	<0.027*	<0.030	<0.026	<0.034	<0.032	<0.036*	<0.029*	<0.028*	<0.035
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.026	<0.029	<0.026	<0.028	<0.036	<0.028	<0.026	<0.026	<0.031	<0.031	<0.039	<0.030	<0.044	<0.028	<0.030	<0.029	<0.033	<0.029	<0.027	<0.030	<0.026	<0.034	<0.032	<0.036	<0.029	<0.028	<0.035
Methylene chloride	75-09-2	mg/kg	35	320	9.1	21	<0.015	<0.017	<0.016	<0.017	<0.021	<0.017	<0.016	<0.016	<0.018	<0.019	<0.023	<0.018	<0.026	<0.017	<0.018	<0.018	<0.020	<0.018	<0.016	<0.018	<0.016	<0.020	<0.019	<0.021	<0.017	<0.017	<0.021
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0051	<0.0058	<0.0052	<0.0056	<0.0071	<0.0055	<0.0053	<0.0052	<0.0062	<0.0062	<0.0077	<0.006	<0.0088	<0.0057	<0.006	<0.0058	<0.0066	<0.0059	<0.0055	<0.0061	<0.0052	<0.0068	<0.0064	<0.0071	<0.0058	<0.0056	<0.007

The data presented is a summary of the results of samples collected on May 18 and 19, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

F1= MS and/or MSD Recovery is outside acceptance limits.

F2= MS/MSD RPD exceeds control limits.

* = LCS or LCSD is outside acceptance limits.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
Harrison Brothers Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID																							
							SB-1 0'-11'	SB-2 0'-11'	SB-3 0'-8'	SB-4 0'-8'	SB-5 0'-9'	SB-6 0'-8'	SB-7 0'-8'	SB-8 0'-8'	SB-9 0'-4'	SB-10 0'-3.5'	SB-11 0'-3'	SB-12 0'-3'	SB-13 0'-4'	SB-14 0'-4'	SB-15 0'-4'	SB-16 0'-4'	SB-17 0'-5'	SB-18 0'-11'	SB-19 0'-11'	B-1 0'-10.5'	B-2 0'-8'	B-3 0'-8'	B-4 0'-4'	B-5 0'-4'	B-6 0'-4'	B-7 0'-11'	DB-1 0'-4'
Semivolatile Organics																														
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.1	<1.1	<1.1	<1.1	<1.3	<1.1	<1.1	<1.1	<1.2	<1.2	<1.6	<1.2	<1.8	<1.1	<1.2	<1.1	<1.3	<1.1	<1.2 F2	<1.3	<1.1	<1.3	<1.3	<1.4	<1.2 F1F2	<1.1	<1.3
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.730	<0.730	<0.730	<0.730	<0.850	<0.720	<0.740	<0.710	<0.800	<0.810	<1.0	<0.810	<1.2	<0.740	<0.820	<0.740	<0.860	<0.710	<0.790	<0.880	<0.710	<0.870	<0.840	<0.920	<0.800	<0.750	<0.860
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.730	<0.730	<0.730	<0.730	<0.850	<0.720	<0.740	<0.710	<0.800	<0.810	<1.0	<0.810	<1.2	<0.740	<0.820	<0.740	<0.860	<0.710	<0.790	<0.880	<0.710	<0.870	<0.840	<0.920	<0.800	<0.750	<0.860
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.1	<1.1	<1.1	<1.1	<1.3	<1.1	<1.1	<1.1	<1.2	<1.2	<1.6	<1.2	<1.8	<1.1	<1.2	<1.1	<1.3	<1.1	<1.2	<1.3	<1.1	<1.3	<1.3	<1.4	<1.2	<1.1	<1.3
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.360	<0.370	<0.370	<0.360	<0.420	<0.360	<0.370	<0.360	<0.400	<0.400	<0.520	<0.400	<0.600	<0.370	<0.410	<0.370	<0.430	<0.360	<0.390	<0.440	<0.350	<0.440	<0.420	<0.460	<0.400	<0.370	<0.430

The data presented is a summary of the results of samples collected on May 18 and 19, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

F1= MS and/or MSD Recovery is outside acceptance limits.

F2= MS/MSD RPD exceeds control limits.

Table 1c
Soil Analytical Results
PCB Arochlors
Harrison Brothers Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID																									
							SB-1 0'-11'	SB-2 0'-11'	SB-3 0'-8'	SB-4 0'-8'	SB-5 0'-9'	SB-6 0'-8'	SB-7 0'-8'	SB-8 0'-8'	SB-9 0'-4'	SB-10 0'-3.5'	SB-11 0'-3'	SB-12 0'-3'	SB-13 0'-4'	SB-14 0'-4'	SB-15 0'-4'	SB-16 0'-4'	SB-17 0'-5'	SB-18 0'-11'	SB-19 0'-11'	B-1 0'-10.5'	B-2 0'-8'	B-3 0'-8'	B-4 0'-4'	B-5 0'-4'	B-6 0'-4'	B-7 0'-11'	DB-1 0'-4'
PCB Arochlors																																
PCB-1016	12674-11-2	mg/kg	0.41	5.1	0.39	21	<0.0094	<0.0095	<0.0094	<0.0095	<0.011	<0.0092	<0.0094	<0.009	<0.010	<0.011	<0.014	<0.010	<0.016	<0.0095	<0.010	<0.0096	<0.0091	<0.0091	<0.010	<0.011	<0.0091	<0.011	<0.011	<0.012	<0.010	<0.0096	<0.011
PCB-1221	11104-28-2	mg/kg	0.20	0.83	0.22	0.74	<0.0094	<0.0095	<0.0094	<0.0095	<0.011	<0.0092	<0.0094	<0.009	<0.010	<0.011	<0.014	<0.010	<0.016	<0.0095	<0.010	<0.0096	<0.0091	<0.0091	<0.010	<0.011	<0.0091	<0.011	<0.011	<0.012	<0.010	<0.0096	<0.011
PCB-1232	11141-16-5	mg/kg	0.17	0.72	0.22	0.74	<0.0094	<0.0095	<0.0094	<0.0095	<0.011	<0.0092	<0.0094	<0.009	<0.010	<0.011	<0.014	<0.010	<0.016	<0.0095	<0.010	<0.0096	<0.0091	<0.0091	<0.010	<0.011	<0.0091	<0.011	<0.011	<0.012	<0.010	<0.0096	<0.011
PCB-1242	53469-21-9	mg/kg	0.23	0.95	0.22	0.74	<0.0094	<0.0095	<0.0094	<0.0095	<0.011	<0.0092	<0.0094	<0.009	<0.010	<0.011	<0.014	<0.010	<0.016	<0.0095	<0.010	<0.0096	<0.0091	<0.0091	<0.010	<0.011	<0.0091	<0.011	<0.011	<0.012	<0.010	<0.0096	<0.011
PCB-1248	12672-29-6	mg/kg	0.23	0.95	0.22	0.74	<0.0094	<0.0095	<0.0094	<0.0095	<0.011	<0.0092	<0.0094	<0.009	<0.010	<0.011	<0.014	<0.010	<0.016	<0.0095	<0.010	<0.0096	<0.0091	<0.0091	<0.010	<0.011	<0.0091	<0.011	<0.011	<0.012	<0.010	<0.0096	<0.011
PCB-1254	11097-69-1	mg/kg	0.12	0.97	0.22	0.74	<0.0094	<0.0095	<0.0094	<0.0095	<0.011	<0.0092	<0.0094	<0.009	<0.010	<0.011	<0.014	<0.010	<0.016	<0.0095	<0.010	<0.0096	<0.0091	<0.0091	<0.010	<0.011	<0.0091	<0.011	<0.011	<0.012	<0.010	<0.0096	<0.011
PCB-1260	11096-82-5	mg/kg	0.24	0.99	0.22	0.74	<0.0094	<0.0095	<0.0094	<0.0095	<0.011	<0.0092	<0.0094	<0.009	<0.010	0.085	<0.014	<0.010	<0.016	<0.0095	<0.010	<0.0096	<0.0091	<0.0091	<0.010	<0.011	<0.0091	<0.011	<0.011	<0.012	0.017	<0.0096	<0.011

The data presented is a summary of the results of samples collected on May 18 and 19, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil
(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil
(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.
mg/kg indicates milligrams per kilogram.

Table 1d
Soil Analytical Results
Metals
Harrison Brothers Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID																									
							SB-1 0'-11'	SB-2 0'-11'	SB-3 0'-8'	SB-4 0'-8'	SB-5 0'-9'	SB-6 0'-8'	SB-7 0'-8'	SB-8 0'-8'	SB-9 0'-4'	SB-10 0'-3.5'	SB-11 0'-3'	SB-12 0'-3'	SB-13 0'-4'	SB-14 0'-4'	SB-15 0'-4'	SB-16 0'-4'	SB-17 0'-5'	SB-18 0'-11'	SB-19 0'-11'	B-1 0'-10.5'	B-2 0'-8'	B-3 0'-8'	B-4 0'-4'	B-5 0'-4'	B-6 0'-4'	B-7 0'-11'	DB-1 0'-4'
Metals																																
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	250	1,200	660	420	450	340	330	340	1,900	2,200	**7,700**	**8,600**	**17,000**	1,200	2,700	4,700	360	200	410	420	320	460	**12,000**	6,900	1,300	360	560
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<5.4	<5.5	<5.5	<5.3	<6.0	<5.3	<5.2	<5.1	**24**	<5.8	<7.7	<5.8	<8.5	<5.4	<5.7	<5.3	<5.2	<5.0	<6.0	<0.64	<5.0	<6.2	<5.8	<6.7	<6.0	<5.2	<6.3
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	<0.54	<0.55	<0.55	<0.53	<0.60	<0.53	<0.52	<0.51	**8.7**	**9.9**	**3.9**	**4.5**	**5.3**	**0.91**	**1.3**	**1.9**	<0.52	<0.50	<0.60	<0.64	<0.50	<0.62	**6.3**	**3.3**	**0.95**	<0.52	<0.63
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.32	<0.33	<0.33	<0.32	<0.36	<0.32	<0.31	<0.31	<0.35	<0.35	0.49	0.6	1.1	<0.32	<0.34	<0.32	<0.31	<0.30	<0.36	<0.38	<0.30	<0.37	<0.35	0.44	<0.36	<0.31	<0.38
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.54	<0.55	<0.55	<0.53	<0.60	<0.53	<0.52	<0.51	<0.58	<0.58	<0.77	<0.58	<0.85	<0.54	<0.57	<0.53	<0.52	<0.50	<0.60	<0.64	<0.50	<0.62	<0.58	<0.67	<0.60	<0.52	<0.63
Chromium	7440-47-3	mg/kg	None	None	30	64	1.2	3.1	2.1	1.7	1.6	1.4	1.4	1.7	4.3	9.6	17	16	25	5.3	6.9	8.2	1.4	1.1	1.8	1.8	1.4	2	**120**	13	4.1	1.4	2.1
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	<1.1	1.4	1.2	1.3	<1.2	<1.1	<1.0	<1.0	4.5	17	110	27	69	1.4	3.4	1.1	1.2	<1.0	<1.2	<1.3	<1.0	<1.2	5.2	19	7.4	1.2	1.3
Lead	7439-92-1	mg/kg	400	800	400	800	1.3	5.3	5	2.9	2	1.6	6.3	3.3	230	40	22	12	17	2.4	5.6	3.9	2.1	1.9	5	2.4	2	2.8	8.9	13	29	2.1	2.6
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	<0.017	<0.017	0.055	<0.017	<0.020	<0.017	<0.0174	<0.016	0.098	0.045	0.051	<0.018	0.036	<0.018	0.02	<0.017	<0.017	<0.016	<0.018	<0.020	<0.017	<0.021	<0.020	0.059	0.031	<0.017	<0.021
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	<0.54	3.7	0.85	0.68	0.63	0.53	<0.52	<0.51	1.5	5.4	7.9	8.4	14	<0.54	0.99	1.1	<0.52	<0.50	<0.60	<0.64	0.52	<0.62	2.4	5.7	1.6	<0.52	0.65
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.0	<1.0	<1.2	<1.2	<1.5	<1.2	<1.7	<1.1	<1.1	<1.1	<1.0	<1.0	<1.2	<1.3	<1.0	<1.2	<1.2	<1.3	<1.2	<1.0	<1.3
Silver	7440-22-4	mg/kg	39	580	39	510	<0.54	<0.55	<0.55	<0.53	<0.60	<0.53	<0.52	<0.51	<0.58	<0.58	<0.77	<0.58	<0.85	<0.54	<0.57	<0.53	<0.52	<0.50	<0.60	<0.64	<0.50	<0.62	<0.58	<0.67	<0.60	<0.52	<0.63
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.1	<1.1	<1.1	<1.1	<1.2	<1.1	<1.0	<1.0	<1.2	<2.3	<1.5	<1.2	<1.7	<1.1	<1.1	<1.1	<1.0	<1.0	<1.2	<1.3	<1.0	<1.2	<1.2	<1.3	<1.2	<1.0	<1.3
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	<2.1	5.3	5.1	5.6	2.6	<2.1	2.7	2.3	8.5	45	80	61	130	2.5	6.3	3	2.4	<2.0	3.2	<2.5	<2.0	2.5	5.4	42	43	2.4	4.7

The data presented is a summary of the results of samples collected on May 18 and 19, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Bold and shaded values indicates concentration exceeds screening level.

Table 2a
Groundwater Analytical Results
Volatile Organic Compounds
Harrison Brothers Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID						
					TW-1	TW-2	TW-3	TW-4	TW-5	TW-6	TW-7
Volatile Organics GC/MS											
1,1,1-Trichloroethane	71-55-6	ug/L	200[3]	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.076	0.055	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	ug/L	5[3]	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	75-34-3	ug/L	2.8	81	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	ug/L	7[3]	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	ug/L	None	18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	591-78-6	ug/L	3.8[3]	None	<25	<25	<25	<25	<25	<25	<25
Acetone	67-64-1	ug/L	1400	550	<25	<25	<25	<25	<25	<25	<25
Benzene	71-43-2	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	ug/L	80[3]	80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	74-83-9	ug/L	0.75	0.87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	ug/L	81	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	56-23-5	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	ug/L	80[3]	None	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	ug/L	2100	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	67-66-3	ug/L	80[3]	80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	74-87-3	ug/L	19	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70[3]	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorobromomethane	75-27-4	ug/L	80[3]	None	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	ug/L	700[3]	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m-Xylene & p-Xylene	1330-20-7	ug/L	10000[3]	10000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	78-93-3	ug/L	560	700	<25	<25	<25	<25	<25	<25	<25
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	630	200	<25	<25	<25	<25	<25	<25	<25
Methylene chloride	75-09-2	ug/L	5.0[3]	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene	95-47-6	ug/L	19	19	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	ug/L	5.0[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	108-88-3	ug/L	100[3]	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene (TCE)	79-01-6	ug/L	5.0[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	ug/L	2.0[3]	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	1330-20-7	ug/L	10000[3]	10000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

The data presented is a summary of the results of samples collected on May 18 and 19, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.

Table 2b
Groundwater Analytical Results
Semi-Volatile Organic Compounds
Harrison Brothers Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID						
					TW-1	TW-2	TW-3	TW-4	TW-5	TW-6	TW-7
Semivolatile Organics											
Acenaphthene	83-32-9	ug/L	53	37	<11	<11	<11	<11	<11	<11	<11
Acenaphthylene	208-96-8	ug/L	None	93.9	<11*	<11*	<11*	<11*	<11*	<11*	<11*
Anthracene	120-12-7	ug/L	180	180	<11	<11	<11	<11	<11	<11	<11
Benzidine	92-87-5	ug/L	0.0001	0.00029	<26*	<26*	<26*	<26*	<26*	<26*	<26*
Benzo(a)anthracene	56-55-3	ug/L	0.012	0.092	<11	<11	<11	<11	<11	<11	<11
Benzo(a)pyrene	50-32-8	ug/L	0.2[3]	0.2	<11	<11	<11	<11	<11	<11	<11
Benzo(b)fluoranthene	205-99-2	ug/L	0.034	0.092	<11*	<11*	<11*	<11*	<11*	<11*	<11*
Benzo(g,h,i)perylene	191-24-2	ug/L	None	46.9	<11	<11	<11	<11	<11	<11	<11
Benzo(k)fluoranthene	207-08-9	ug/L	0.34	0.92	<11	<11	<11	<11	<11	<11	<11
bis(2-chloroethoxy)methane	111-91-1	ug/L	5.9	46	<11	<11	<11	<11	<11	<11	<11
bis(2-chloroethyl)ether	111-44-4	ug/L	0.014	None	<11	<11	<11	<11	<11	<11	<11
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0[3]	6.0	<11	<11	<11	<11	<11	<11	<11
4-Bromophenyl phenyl ether	101-55-3	ug/L	None	None	<11*	<11*	<11*	<11*	<11*	<11*	<11*
Butyl benzyl phthalate	85-68-7	ug/L	16	730	<11	<11	<11	<11	<11	<11	<11
Carbazole	86-74-8	ug/L	None	3.4	<11	<11	<11	<11	<11	<11	<11
4-Chloroaniline	106-47-8	ug/L	0.37	15	<11	<11	<11	<11	<11	<11	<11
4-Chloro-3-methylphenol	59-50-7	ug/L	140	None	<11*	<11*	<11*	<11*	<11*	<11*	<11*
2-Chlorophenol	95-57-8	ug/L	9.1	3	<11	<11	<11	<11	<11	<11	<11
4-Chlorophenyl phenyl ether	7005-72-3	ug/L	None	None	<11*	<11*	<11*	<11*	<11*	<11*	<11*
Chrysene	218-01-9	ug/L	3.4	9.2	<11	<11	<11	<11	<11	<11	<11
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0034	0.0092	<11	<11	<11	<11	<11	<11	<11
Dibenzofuran	132-64-9	ug/L	0.79	1.2	<11*	<11*	<11*	<11*	<11*	<11*	<11*
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.13	0.15	<11	<11	<11	<11	<11	<11	<11
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H
1,3-Dichlorobenzene	541-73-1	ug/L	None	None	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H
2,4-Dichlorophenol	120-83-2	ug/L	4.6	11	<11	<11	<11	<11	<11	<11	<11
Diethyl phthalate	84-66-2	ug/L	1500	2900	<11	<11	<11	<11	<11	<11	<11
2,4-Dimethylphenol	105-67-9	ug/L	36	73	<11	<11*	<11*	<11*	<11*	<11*	<11*
Dimthyl phthalate	131-11-3	ug/L	None	36000	<11*	<11	<11	<11	<11	<11	<11
Di-n-butyl phthalate	84-74-2	ug/L	90	360	<11	<11	<11	<11	<11	<11	<11
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	0.15	None	<11	<11	<11	<11	<11	<11	<11
2,4-Dinitrophenol	51-28-5	ug/L	3.9	7.3	<32	<32	<32	<32	<32	<32	<32
2,4-Dinitrotoluene	121-14-2	ug/L	0.24	7.3	<11	<11	<11	<11	<11	<11	<11
2,6-Dinitrotoluene	606-20-2	ug/L	0.049	3.6	<11	<11	<11	<11	<11	<11	<11
Di-n-octyl phthalate	117-84-0	ug/L	20	150	<11	<11	<11	<11	<11	<11	<11
Dinoseb[2]	88-85-7	ug/L	7.0[3]	None	<11	<11	<11	<11	<11	<11	<11
Fluoranthene	206-44-0	ug/L	80	150	<11	<11	<11	<11	<11	<11	<11
Fluorene	86-73-7	ug/L	29	24	<11	<11	<11	<11	<11	<11	<11
Hexachlorobenzene	118-74-1	ug/L	1.0[3]	1	<11*	<11*	<11*	<11*	<11*	<11*	<11*
Hexachlorobutadiene	87-68-3	ug/L	0.14	0.86	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H
Hexachlorocyclopentadiene	77-47-4	ug/L	50[3]	50	<21*	<21*	<21*	<21*	<21*	<21*	<21*
Hexachloroethane	67-72-1	ug/L	0.33	4.8	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.034	0.092	<11	<11	<11	<11	<11	<11	<11
Isophorone	78-59-1	ug/L	78	71	<11	<11	<11	<11	<11	<11	<11
1-Methylnaphthalene	90-12-0	ug/L	1.1[3]	None	<11	<11	<11	<11	<11	<11	<11
2-Methylnaphthalene	91-57-6	ug/L	3.6	6.26	<11*	<11*	<11*	<11*	<11*	<11*	<11*
2-Methylphenol	95-48-7	ug/L	93	180	<11*	<11*	<11*	<11*	<11*	<11*	<11*
3 & 4 Methylphenol	106-44-5	ug/L	190	18	<21*	<21*	<21*	<21*	<21*	<21*	<21*
Naphthalene	91-20-3	ug/L	0.17	0.62	<11	<11	<11	<11	<11	<11	<11
2-Nitroaniline	88-74-4	ug/L	19	11	<11	<11	<11	<11	<11	<11	<11
4-Nitroaniline	100-01-6	ug/L	3.8	None	<11	<11	<11	<11	<11	<11	<11
Nitrobenzene	98-95-3	ug/L	0.14	0.34	<11	<11	<11	<11	<11	<11	<11
2-Nitrophenol	88-75-5	ug/L	None	None	<11	<11	<11	<11	<11	<11	<11
4-Nitrophenol	100-02-7	ug/L	None	12.5	<11	<11	<11	<11	<11	<11	<11
N-Nitrosodimethylamine	62-75-9	ug/L	0.00011	0.0013	<11	<11	<11	<11	<11	<11	<11
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.011	0.0096	<11	<11	<11	<11	<11	<11	<11
N-Nitrosodiphenylamine	86-30-6	ug/L	12	14	<11	<11	<11	<11	<11	<11	<11
Pentachlorophenol	87-86-5	ug/L	1.0[3]	1.0	<21	<21	<21	<21	<21	<21	<21
Phenanthrene	85-01-8	ug/L	None	46.9	<11	<11	<11	<11	<11	<11	<11
Phenol	108-95-2	ug/L	580	1100	<11*	<11*	<11*	<11*	<11*	<11*	<11*
Pyrene	129-00-0	ug/L	12	18	<11	<11	<11	<11	<11	<11	<11
1,2,4-Trichlorobenzene	120-82-1	ug/L	7.0[3]	70.0	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H	<11 H
2,4,5-Trichlorophenol	95-95-4	ug/L	120	360	<11	<11	<11	<11	<11	<11	<11
2,4,6-Trichlorophenol	88-06-2	ug/L	1.2	0.36	<11	<11	<11	<11	<11	<11	<11

The data presented is a summary of the results of samples collected on May 18 and 19, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.
H - Sample was prepped or analyzed beyond the specified holding time.
* - RPD of the LCS and LCSD exceeds the control limits.

Table 2c
Groundwater Analytical Results
PCB Arochlors
Harrison Brothers Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID						
					TW-1	TW-2	TW-3	TW-4	TW-5	TW-6	TW-7
PCB Arochlors											
PCB-1016	12674-11-2	ug/L	0.14	0.96	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
PCB-1221	11104-28-2	ug/L	0.0047	0.034	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
PCB-1232	1141-16-5	ug/L	0.0047	0.034	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
PCB-1242	53469-21-9	ug/L	0.0078	0.034	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
PCB-1248	12672-29-6	ug/L	0.0078	0.034	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
PCB-1254	11097-69-1	ug/L	0.0078	0.034	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53
PCB-1260	11096-82-5	ug/L	0.0078	0.034	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53	<0.53

The data presented is a summary of the results of samples collected on May 18 and 19, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.

(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.

ug/L indicates micrograms per liter.

Table 2d
Groundwater Analytical Results
Metals
Harrison Brothers Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID						
					TW-1	TW-2	TW-3	TW-4	TW-5	TW-6	TW-7
Metals											
Antimony	7440-36-0	mg/L	0.006[3]	0.006	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	7440-38-2	mg/L	0.01[3]	0.01	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Beryllium	7440-41-7	mg/L	0.004[3]	0.004	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Cadmium	7440-43-9	mg/L	0.005[3]	0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.1[3]	0.10	<0.10	<0.010	<0.010	<0.010	0.014	<0.010	0.01
Copper	7440-50-8	mg/L	1.3[3]	1.30	<0.010	<0.010	<0.010	<0.010	0.28	<0.010	0.015
Lead	7439-92-1	mg/L	0.015[3]	0.015	0.0092	0.01	0.01	0.011	**0.018**	0.0055	**0.019**
Mercury	7487-94-7	mg/L	0.002[3]	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	7440-02-0	mg/L	0.039	0.1	<0.0050	<0.0050	<0.0050	<0.0050	**0.055**	<0.0050	0.005
Selenium	7782-49-2	mg/L	0.005[3]	0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver	7440-22-4	mg/L	0.0094	0.0018	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Thallium	7440-28-0	mg/L	0.002[3]	0.002	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc	7440-66-6	mg/L	0.6	1.1	<0.020	<0.020	<0.020	<0.020	**1.0**	<0.020	0.028

The data presented is a summary of the results of samples collected on May 18 and 19, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.

(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.

(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.

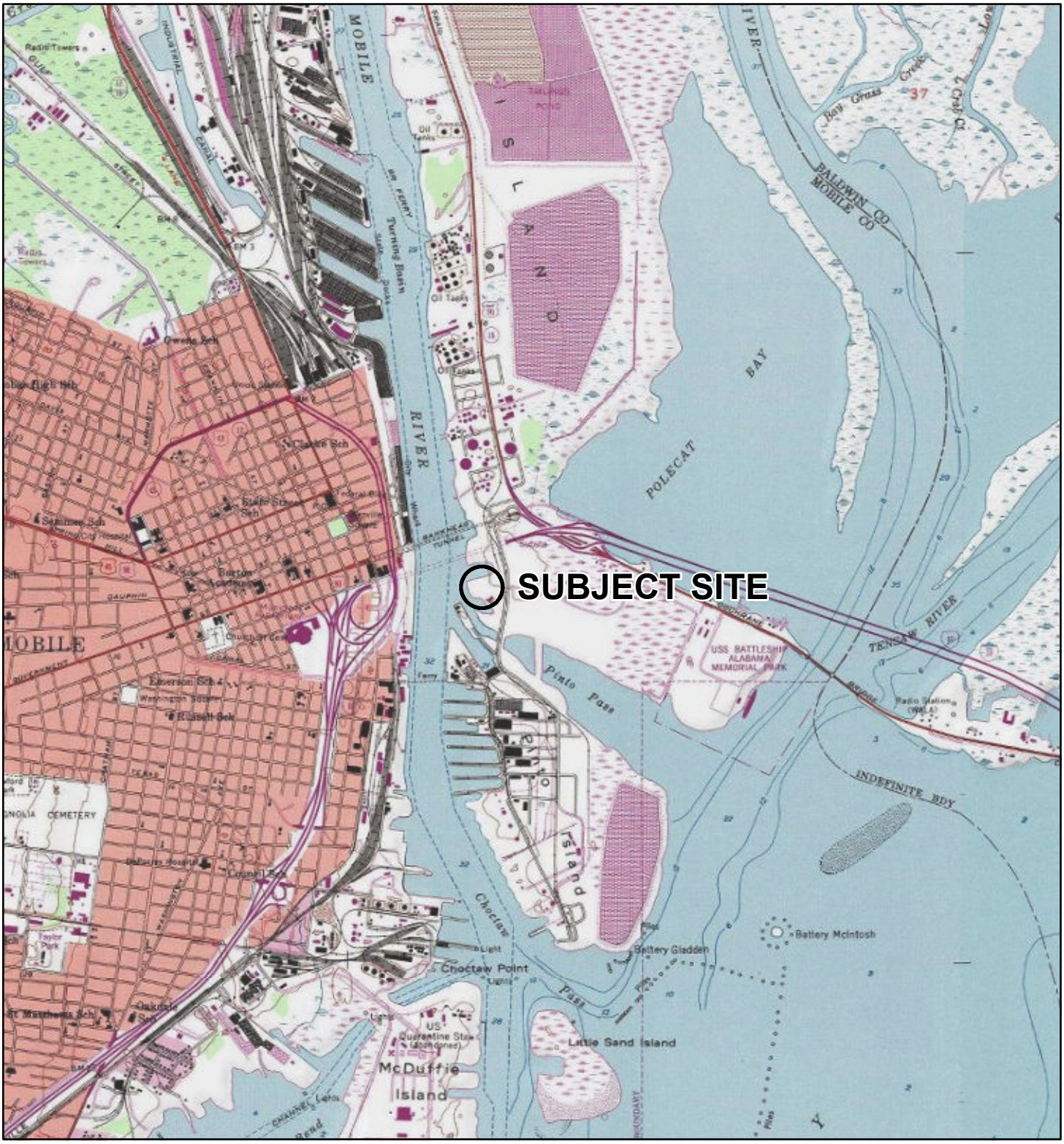
mg/L indicates milligrams per liter.

Bold and shaded values indicates concentration exceeds screening level.

APPENDIX A

HARRISON BROTHERS PROPERTY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

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ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 1
SITE VICINITY MAP
HARRISON BROTHERS PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

- Project Limit
- Parcel Line*

1:1,800

0 200 400 Feet

1 inch = 150 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
Mobile County Revenue Commissioner's Parcels - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 2
AERIAL PHOTOGRAPH
HARRISON BROTHERS PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOhearn\GIS\MXD\HARRISON_FIG3.mxd



LEGEND

- Deep Boring (DB)
- Soil Boring (SB)
- Boring /Temporary Well (B/TW)
- Project Limit
- Parcel Line*

1:1,800

0 200 400 Feet

1 inch = 150 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
Mobile County Revenue Commissioner's Parcels - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
HARRISON BROTHERS PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOhearn\GIS\MXD\HARRISON_FIG3.mxd

APPENDIX B

HARRISON BROTHERS PROPERTY
GROUNDWATER FIELD PARAMETER DATA

PROJECT NO.: 15-1101-0043

Groundwater Field Parameter Data

Harrison Brothers Property
Preliminary Investigation
15-1101-0043

Well I.D.	Total Depth (feet)	Depth to Water Level (feet)	Well Volume (gallon)	Volume Evacuated (gallon)	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	16.0	10.21	0.24	1.7	5.9	23.2	0.312	0.22	47.7
TW-2	16.2	9.8	0.26	2.6	5.8	22.9	0.258	0.47	48.3
TW-3	16.1	9.34	0.28	1.7	5.7	24	0.296	0.05	52.8
TW-4	8.1	3.55	0.18	1.6	6.0	22.8	4.3	0.39	13.7
TW-5	7.9	3.05	0.2	1.4	5.7	25	3.75	0.95	66.1
TW-6	8.1	3.46	0.19	1.0	6.1	24.7	2.55	0.07	33.5
TW-7	16.2	11.19	0.2	1.2	5.7	23	0.389	0.12	4.34

Notes:
1. Measurements presented are the final well volume.
2. Total depth and depth to water level are measured from top of well casing.
3. S.U. - Standard Units
4. oC - Degrees Celcius
5. uS - micro Siemens per Centimeter
6. mg/L-milligrams per liter
7. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

APPENDIX C

HARRISON BROTHERS PROPERTY
SOIL BORING LOGS AND
TEMPORARY WELL CONSTRUCTION DETAILS

PROJECT NO.: 15-1101-0043

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TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 10.5 ft. bgs

BORING NO.: B-1/TW-1 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		ASPHALT	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake): Flush-threaded joints with bottom cap.		
		Brown to tan fine SAND			
5					
10		saturated			
15					
		B.T. @ 16 ft bgs			
20					
25					
30					
35					

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TEMPORARY WELL CONSTRUCTION DETAILS

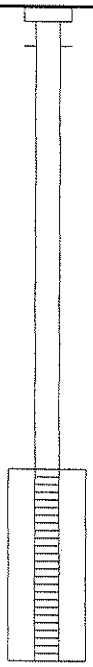
CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 8 ft. bgs

BORING NO.: B-2/TW-2 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		SHELL FILL	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Brown to tan fine SAND			
5					
		Gray to dark gray fine SAND, saturated			
10					
15					
		B.T. @ 16 ft bgs			
20					
25					
30					
35					



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TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 8 ft. bgs

BORING NO.: B-3/TW-3 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		ASPHALT	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake): Flush-threaded joints with bottom cap.		
		Light brown to tan fine SAND			
5					
		saturated			
10					
15					
		B.T. @ 16 ft bgs			
20					
25					
30					
35					

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TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: B-4/TW-4 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		GRAVEL	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Red SANDY CLAY			
		Yellowish brown fine SAND			
		Dark gray CLAYEY SAND			
5		Dark gray fine SAND, saturated			
		B.T. @ 8 ft bgs			
10					
15					
20					
25					
30					
35					

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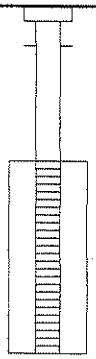
TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: B-5/TW-5 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Dark gray CLAYEY SAND	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
5		Dark gray fine SAND, saturated			
10		B.T. @ 8 ft bgs			
15					
20					
25					
30					
35					

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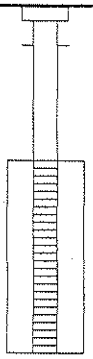
TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: B-6/TW-6 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Brown fine SAND	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
5		saturated			
		B.T. @ 8 ft bgs			
10					
15					
20					
25					
30					
35					

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TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: B-7/TW-7 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Brown to tan fine SAND	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
5					
10		saturated			
15		B.T. @ 16 ft bgs			
20					
25					
30					
35					

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SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: SB-1 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT
		Brown to tan fine SAND
5		
10		saturated
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

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SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: SB-2 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT
		Brown to tan fine SAND
5		
10		saturated
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

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ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 8 ft. bgs

BORING NO.: SB-3 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT
		Brown to tan fine SAND
5		
		saturated
10		
		Gray fine SAND
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 8 ft. bgs

BORING NO.: SB-4 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		SHELL FILL
		Light brown to tan fine SAND
5		
		saturated
10		
		Gray fine SAND
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 9 ft. bgs

BORING NO.: SB-5 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT
		Brown to tan fine SAND
5		
10		saturated
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 8 ft. bgs

BORING NO.: SB-6 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT
		Brown to tan fine SAND
5		
		saturated
10		Gray fine SAND
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 8 ft. bgs

BORING NO.: SB-7 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT
		Brown to tan fine SAND
5		
		saturated
10		
		Gray fine SAND
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 18, 2015 **GR. WATER DEPTH:** 8 ft. bgs

BORING NO.: SB-8 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT
		Brown to tan fine SAND
5		
		saturated
10		Gray fine SAND
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-9 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Gravel
		Dark brown and gray fine SAND
		saturated
5		B.T. @ 4 ft bgs
10		
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 3.5 ft. bgs

BORING NO.: SB-10 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Gravel
		Dark gray CLAYEY SAND
		Dark gray fine SAND
		saturated
		B.T. @ 4 ft bgs
5		
10		
15		
20		
25		
30		
35		

thompson ENGINEERING

AAR SM AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 3 ft. bgs

BORING NO.: SB-11 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Dark gray CLAYEY SAND
		Dark gray fine SAND, saturated
		B.T. @ 4 ft bgs
5		
10		
15		
20		
25		
30		
35		

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 3 ft. bgs

BORING NO.: SB-12 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Dark gray CLAYEY SAND
		Dark gray fine SAND, saturated
		B.T. @ 4 ft bgs
5		
10		
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-13 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Black and brown fine CLAY
5		Dark gray fine SAND, saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-14 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Reddish brown and brown fine SAND
5		Gray fine SAND, saturated B.T. @ 4 ft bgs
10		
15		
20		
25		
30		
35		

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AAR SM AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-15 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Reddish brown and brown fine SAND
		saturated
5		B.T. @ 4 ft bgs
10		
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-16 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		GRAVEL
		Red CLAYEY SAND
5		Gray fine SAND, saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 5 ft. bgs

BORING NO.: SB-17 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Tan fine SAND
5		Dark gray CLAY
		Black fine SAND, saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

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ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: SB-18 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Tan fine SAND
5		
10		saturated
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

thompson
ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: SB-19 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Brown to tan fine SAND
5		
10		saturated
		B.T. @ 12 ft bgs
15		
20		
25		
30		
35		

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: DB-1 **LOCATION:** Harrison Brothers Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Light gray fine SAND
		saturated
5		B.T. @ 4 ft bgs
10		
15		
20		
25		
30		
35		

APPENDIX D

HARRISON BROTHERS PROPERTY
LABORATORY ANALYTICAL DATA
WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105845-1
Client Project/Site: Harrison Brother Site

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
6/9/2015 1:13:06 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-105845-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105845-1

Comments
No additional comments.

Receipt
The samples were received on 5/20/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 3.4º C, 3.5º C, 4.0º C and 4.9º C.

Receipt Exceptions

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): TW-3 (400-105845-9). The container label for TW-3 list sample collection time 5/18/15@1620,while the COC lists 5/18/15@15:59.

The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): SB-18 0'-11' (400-105845-33). The container labels list SB-19 0'-11', while the COC lists SB-18 0'-11'.

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): SB-19 0'-11' (400-105845-34). The container label for SB-19 0'-11' list sample collection time 5/19/15@14:06, while the COC lists 5/19/15@14:12.

GC/MS VOA
Method(s) 8260B, 8260C: The laboratory control sample (LCS) for preparation batch 259342 recovered outside control limits for one analyte. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for batch 259489 recovered outside control limits for three analytes. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259086 recovered above the upper control limit for Fluoranthene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: B-1 0'-10.5 (400-105845-1), SB-1 0'-11' (400-105845-3), SB-2 0'-11' (400-105845-4), SB-3 0'-8' (400-105845-5), B-2 0'-8' (400-105845-6), B-3 0'-8' (400-105845-8), SB-4 0'-8' (400-105845-10), SB-5 0'-9' (400-105845-11), SB-6 0'-8' (400-105845-12), SB-7 0'-8' (400-105845-13), B-6 0'-4' (400-105845-25) and (MB 400-257954/24-A).

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259086 recovered outside acceptance criteria, low biased, for Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. B-1 0'-10.5 (400-105845-1), SB-1 0'-11' (400-105845-3), SB-2 0'-11' (400-105845-4), SB-3 0'-8' (400-105845-5), B-2 0'-8' (400-105845-6), B-3 0'-8' (400-105845-8), SB-4 0'-8' (400-105845-10), SB-5 0'-9' (400-105845-11), SB-6 0'-8' (400-105845-12), SB-7 0'-8' (400-105845-13), B-6 0'-4' (400-105845-25) and (MB 400-257954/24-A)

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 258202 recovered outside control limits for the flagged analytes.

Method(s) 8270D: Surrogate recovery for the following sample was outside the upper control limit: (MB 400-258202/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The following samples was re-prepared outside of preparation holding time due to failing LCS compounds in the original extraction: TW-1 (400-105845-2), TW-2 (400-105845-7), TW-3 (400-105845-9), TW-4 (400-105845-17), TW-5 (400-105845-23),

Job ID: 400-105845-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

TW-6 (400-105845-26) and TW-7 (400-105845-32). The re-extraction confirmed the oriinal results

Method(s) 8270D: Surrogate recovery for the following sample was outside the upper control limit: (MB 400-259035/1-A). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259297 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene and Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010B: The following sample was diluted because the initial analysis produced a significant negative result for Thallium - the absolute value exceeded the reporting limit (RL): SB-10 0'-3.5' (400-105845-19). Reporting limits (RLs) are elevated as a result.

Method(s) 245.1, 7470A: The method blank for Prep Batch contained mercury above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: B-1 0'-10.5
Date Collected: 05/18/15 13:03
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-1
Matrix: Solid
Percent Solids: 74.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,1,2,2-Tetrachloroethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,1,2-Trichloroethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,1-Dichloroethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,1-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,2-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,2-Dichloroethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,2-Dichloropropane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,3-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
1,4-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
2-Hexanone	<30		30		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Acetone	<30		30		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Benzene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Bromoform	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Bromomethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Carbon disulfide	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Carbon tetrachloride	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Chlorobenzene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Chlorodibromomethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Chloroethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Chloroform	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Chloromethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
cis-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
cis-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Dichlorobromomethane	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Ethylbenzene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
m-Xylene & p-Xylene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
2-Butanone (MEK)	<30		30		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Methylene Chloride	<18		18		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
o-Xylene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Styrene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Tetrachloroethene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Toluene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
trans-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
trans-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Trichloroethene	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Vinyl chloride	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1
Xylenes, Total	<6.1		6.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/01/15 08:00*	*06/01/15 15:06*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*06/01/15 08:00*	*06/01/15 15:06*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*06/01/15 08:00*	*06/01/15 15:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
1,4-Dichlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
1-Methylnaphthalene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: B-1 0'-10.5
Date Collected: 05/18/15 13:03
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-1
Matrix: Solid
Percent Solids: 74.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2,4,6-Trichlorophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2,4-Dichlorophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2,4-Dimethylphenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2-Chlorophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2-Methylnaphthalene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2-Methylphenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2-Nitroaniline	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2-Nitrophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
3 & 4 Methylphenol	<880		880		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
3,3'-Dichlorobenzidine	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
4,6-Dinitro-2-methylphenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
4-Bromophenyl phenyl ether	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
4-Chloro-3-methylphenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
4-Chloroaniline	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
4-Chlorophenyl phenyl ether	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
4-Nitroaniline	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
4-Nitrophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Acenaphthene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Acenaphthylene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Anthracene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Benzidine	<1300		1300		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Benzo[a]anthracene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Benzo[a]pyrene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Benzo[b]fluoranthene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Benzo[g,h,i]perylene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Benzo[k]fluoranthene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Bis(2-chloroethoxy)methane	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Bis(2-chloroethyl)ether	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Bis(2-ethylhexyl) phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Butyl benzyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Carbazole	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Chrysene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Di-n-butyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Di-n-octyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Dibenz(a,h)anthracene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Dibenzofuran	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Diethyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Dimethyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Fluoranthene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Fluorene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Hexachlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Hexachlorobutadiene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Hexachlorocyclopentadiene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Hexachloroethane	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Indeno[1,2,3-cd]pyrene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Isophorone	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
N-Nitrosodi-n-propylamine	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1

Client Sample ID: B-1 0'-10.5
Date Collected: 05/18/15 13:03
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-1
Matrix: Solid
Percent Solids: 74.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
N-Nitrosodiphenylamine	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Naphthalene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Nitrobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Pentachlorophenol	<880		880		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Phenanthrene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Phenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Pyrene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
1,2,4-Trichlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
1,2-Dichlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2,4-Dinitrotoluene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
2,6-Dinitrotoluene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1
Dinoseb	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*83*		*37 - 120*	*05/21/15 07:56*	*05/29/15 20:02*	*1*
Terphenyl-d14 (Surr)	*89*		*36 - 134*	*05/21/15 07:56*	*05/29/15 20:02*	*1*
2,4,6-Tribromophenol (Surr)	*82*		*32 - 133*	*05/21/15 07:56*	*05/29/15 20:02*	*1*
2-Fluorobiphenyl	*85*		*44 - 120*	*05/21/15 07:56*	*05/29/15 20:02*	*1*
2-Fluorophenol (Surr)	*74*		*25 - 120*	*05/21/15 07:56*	*05/29/15 20:02*	*1*
Nitrobenzene-d5 (Surr)	*79*		*27 - 120*	*05/21/15 07:56*	*05/29/15 20:02*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 18:33	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 18:33	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 18:33	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 18:33	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 18:33	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 18:33	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*		*30 - 150*	*05/22/15 08:02*	*05/26/15 18:33*	*1*
Tetrachloro-m-xylene	*87*		*43 - 142*	*05/22/15 08:02*	*05/26/15 18:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.64		0.64		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Aluminum	**420**		13		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Arsenic	<0.64		0.64		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Beryllium	<0.38		0.38		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Cadmium	<0.64		0.64		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Chromium	**1.8**		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Copper	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Nickel	<0.64		0.64		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Lead	**2.4**		0.64		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Antimony	<6.4		6.4		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Selenium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1
Thallium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1

Client Sample ID: B-1 0'-10.5

Lab Sample ID: 400-105845-1

Date Collected: 05/18/15 13:03

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 74.4

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	<2.5		2.5		mg/Kg	☼	05/21/15 11:41	05/23/15 14:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	05/21/15 09:36	05/26/15 13:10	1

Client Sample ID: TW-1

Lab Sample ID: 400-105845-2

Date Collected: 05/18/15 13:58

Matrix: Water

Date Received: 05/20/15 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/31/15 20:18	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/31/15 20:18	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/31/15 20:18	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/31/15 20:18	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/31/15 20:18	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 20:18	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/31/15 20:18	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/31/15 20:18	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 20:18	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 20:18	1
2-Hexanone	<25		25		ug/L			05/31/15 20:18	1
Acetone	<25		25		ug/L			05/31/15 20:18	1
Benzene	<1.0		1.0		ug/L			05/31/15 20:18	1
Bromoform	<5.0		5.0		ug/L			05/31/15 20:18	1
Bromomethane	<1.0		1.0		ug/L			05/31/15 20:18	1
Carbon disulfide	<1.0		1.0		ug/L			05/31/15 20:18	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/31/15 20:18	1
Chlorobenzene	<1.0		1.0		ug/L			05/31/15 20:18	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/31/15 20:18	1
Chloroethane	<1.0		1.0		ug/L			05/31/15 20:18	1
Chloroform	<1.0		1.0		ug/L			05/31/15 20:18	1
Chloromethane	<1.0		1.0		ug/L			05/31/15 20:18	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 20:18	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 20:18	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/31/15 20:18	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/15 20:18	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/31/15 20:18	1
2-Butanone (MEK)	<25		25		ug/L			05/31/15 20:18	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/31/15 20:18	1
Methylene Chloride	<5.0		5.0		ug/L			05/31/15 20:18	1
o-Xylene	<5.0		5.0		ug/L			05/31/15 20:18	1
Styrene	<1.0		1.0		ug/L			05/31/15 20:18	1
Tetrachloroethene	<1.0		1.0		ug/L			05/31/15 20:18	1
Toluene	<1.0		1.0		ug/L			05/31/15 20:18	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 20:18	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 20:18	1
Trichloroethene	<1.0		1.0		ug/L			05/31/15 20:18	1
Vinyl chloride	<1.0		1.0		ug/L			05/31/15 20:18	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: TW-1
Date Collected: 05/18/15 13:58
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<5.0		5.0		ug/L			05/31/15 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/31/15 20:18*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*05/31/15 20:18*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/31/15 20:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 15:27	1
1,4-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 15:27	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2,4-Dimethylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/29/15 17:07	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2-Methylnaphthalene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2-Methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
3 & 4 Methylphenol	<21	*	21		ug/L		05/22/15 12:59	05/29/15 17:07	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
4-Bromophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
4-Chloro-3-methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
4-Chlorophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Acenaphthylene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Benzidine	<26	*	26		ug/L		05/22/15 12:59	05/29/15 17:07	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Benzo[b]fluoranthene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Dibenzofuran	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1

Client Sample ID: TW-1
Date Collected: 05/18/15 13:58
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Hexachlorobenzene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Hexachlorobutadiene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 15:27	1
Hexachlorocyclopentadiene	<21	*	21		ug/L		05/22/15 12:59	05/29/15 17:07	1
Hexachloroethane	<11	H	11		ug/L		05/29/15 11:19	06/01/15 15:27	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/29/15 17:07	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Phenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
1,2,4-Trichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 15:27	1
1,2-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 15:27	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/29/15 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*77*		*10 - 120*	*05/22/15 12:59*	*05/29/15 17:07*	*1*
Phenol-d5 (Surr)	*60*		*10 - 120*	*05/29/15 11:19*	*06/01/15 15:27*	*1*
Terphenyl-d14 (Surr)	*114*		*53 - 125*	*05/22/15 12:59*	*05/29/15 17:07*	*1*
Terphenyl-d14 (Surr)	*107*		*53 - 125*	*05/29/15 11:19*	*06/01/15 15:27*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*15 - 135*	*05/22/15 12:59*	*05/29/15 17:07*	*1*
2,4,6-Tribromophenol (Surr)	*17*		*15 - 135*	*05/29/15 11:19*	*06/01/15 15:27*	*1*
2-Fluorobiphenyl	*74*		*34 - 120*	*05/22/15 12:59*	*05/29/15 17:07*	*1*
2-Fluorobiphenyl	*78*		*34 - 120*	*05/29/15 11:19*	*06/01/15 15:27*	*1*
2-Fluorophenol (Surr)	*65*		*10 - 120*	*05/22/15 12:59*	*05/29/15 17:07*	*1*
2-Fluorophenol (Surr)	*22*		*10 - 120*	*05/29/15 11:19*	*06/01/15 15:27*	*1*
Nitrobenzene-d5 (Surr)	*83*		*27 - 120*	*05/22/15 12:59*	*05/29/15 17:07*	*1*
Nitrobenzene-d5 (Surr)	*79*		*27 - 120*	*05/29/15 11:19*	*06/01/15 15:27*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:00	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:00	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:00	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:00	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:00	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:00	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:00	1

Client Sample ID: TW-1

Date Collected: 05/18/15 13:58
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-2

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*10 - 125*	*05/22/15 08:24*	*05/29/15 14:00*	*1*
Tetrachloro-m-xylene	*84*		*46 - 150*	*05/22/15 08:24*	*05/29/15 14:00*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/21/15 10:05	05/21/15 17:28	1
Arsenic	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:28	1
Beryllium	<0.0030		0.0030		mg/L		05/21/15 10:05	05/21/15 17:28	1
Cadmium	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:28	1
Chromium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:28	1
Copper	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:28	1
Lead	**0.0092**		0.0050		mg/L		05/21/15 10:05	05/21/15 17:28	1
Nickel	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:28	1
Selenium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:28	1
Silver	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:28	1
Thallium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:28	1
Zinc	<0.020		0.020		mg/L		05/21/15 10:05	05/21/15 17:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/15 10:49	05/26/15 09:46	1

Client Sample ID: SB-1 0'-11'

Date Collected: 05/18/15 13:30
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-3

Matrix: Solid
Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,1,2,2-Tetrachloroethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,1,2-Trichloroethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,1-Dichloroethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,1-Dichloroethene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,2-Dichlorobenzene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,2-Dichloroethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,2-Dichloropropane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,3-Dichlorobenzene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
1,4-Dichlorobenzene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
2-Hexanone	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Acetone	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Benzene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Bromoform	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Bromomethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Carbon disulfide	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Carbon tetrachloride	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Chlorobenzene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Chlorodibromomethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Chloroethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Chloroform	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Chloromethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
cis-1,2-Dichloroethene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1

Client Sample ID: SB-1 0'-11'
Date Collected: 05/18/15 13:30
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-3
Matrix: Solid
Percent Solids: 90.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Dichlorobromomethane	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Ethylbenzene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
m-Xylene & p-Xylene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
2-Butanone (MEK)	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
4-Methyl-2-pentanone (MIBK)	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Methylene Chloride	<15		15		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
o-Xylene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Styrene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Tetrachloroethene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Toluene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
trans-1,2-Dichloroethene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
trans-1,3-Dichloropropene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Trichloroethene	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Vinyl chloride	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1
Xylenes, Total	<5.1		5.1		ug/Kg	☼	06/01/15 08:00	06/01/15 15:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/01/15 08:00*	*06/01/15 15:31*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*06/01/15 08:00*	*06/01/15 15:31*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*06/01/15 08:00*	*06/01/15 15:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
1-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2-Chlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2-Methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
3 & 4 Methylphenol	<730		730		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
3,3'-Dichlorobenzidine	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
4,6-Dinitro-2-methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
4-Chloroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
4-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
4-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Acenaphthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Acenaphthylene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1

Client Sample ID: SB-1 0'-11'
Date Collected: 05/18/15 13:30
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-3
Matrix: Solid
Percent Solids: 90.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Benzo[a]pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Carbazole	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Chrysene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Dibenzofuran	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Diethyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Dimethyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Fluorene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Hexachlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Hexachloroethane	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Isophorone	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Naphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Nitrobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Pentachlorophenol	<730		730		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Phenanthrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Phenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1
Dinoseb	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*66*		*37 - 120*	*05/21/15 07:56*	*05/29/15 20:41*	*1*
Terphenyl-d14 (Surr)	*80*		*36 - 134*	*05/21/15 07:56*	*05/29/15 20:41*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*32 - 133*	*05/21/15 07:56*	*05/29/15 20:41*	*1*
2-Fluorobiphenyl	*63*		*44 - 120*	*05/21/15 07:56*	*05/29/15 20:41*	*1*
2-Fluorophenol (Surr)	*55*		*25 - 120*	*05/21/15 07:56*	*05/29/15 20:41*	*1*
Nitrobenzene-d5 (Surr)	*56*		*27 - 120*	*05/21/15 07:56*	*05/29/15 20:41*	*1*

Client Sample ID: SB-1 0'-11'

Lab Sample ID: 400-105845-3
Date Collected: 05/18/15 13:30
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 90.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 18:59	1
PCB-1221	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 18:59	1
PCB-1232	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 18:59	1
PCB-1242	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 18:59	1
PCB-1248	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 18:59	1
PCB-1254	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 18:59	1
PCB-1260	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*102*		*30 - 150*	*05/22/15 08:02*	*05/26/15 18:59*	*1*
Tetrachloro-m-xylene	*86*		*43 - 142*	*05/22/15 08:02*	*05/26/15 18:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.54		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Aluminum	**250**		11		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Arsenic	<0.54		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Beryllium	<0.32		0.32		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Cadmium	<0.54		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Chromium	**1.2**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Copper	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Nickel	<0.54		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Lead	**1.3**		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Antimony	<5.4		5.4		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Selenium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Thallium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1
Zinc	<2.1		2.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:49	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:36	05/26/15 13:12	1

Client Sample ID: SB-2 0'-11'

Lab Sample ID: 400-105845-4
Date Collected: 05/18/15 13:53
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,1,2,2-Tetrachloroethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,1,2-Trichloroethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,1-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,1-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,2-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,2-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,2-Dichloropropane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,3-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
1,4-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
2-Hexanone	<29		29		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Acetone	<29		29		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1

Client Sample ID: SB-2 0'-11'
Date Collected: 05/18/15 13:53
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-4
Matrix: Solid
Percent Solids: 89.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Bromoform	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Bromomethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Carbon disulfide	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Carbon tetrachloride	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Chlorobenzene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Chlorodibromomethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Chloroethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Chloroform	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Chloromethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
cis-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
cis-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Dichlorobromomethane	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Ethylbenzene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
m-Xylene & p-Xylene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
2-Butanone (MEK)	<29		29		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Methylene Chloride	<17		17		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
o-Xylene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Styrene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Tetrachloroethene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Toluene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
trans-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
trans-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Trichloroethene	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Vinyl chloride	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1
Xylenes, Total	<5.8		5.8		ug/Kg	☼	06/01/15 08:00	06/01/15 15:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/01/15 08:00*	*06/01/15 15:57*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*06/01/15 08:00*	*06/01/15 15:57*	*1*
Toluene-d8 (Surr)	*105*		*80 - 120*	*06/01/15 08:00*	*06/01/15 15:57*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
1,4-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2-Chlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2-Methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
3 & 4 Methylphenol	<730		730		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1

Client Sample ID: SB-2 0'-11'
Date Collected: 05/18/15 13:53
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-4
Matrix: Solid
Percent Solids: 89.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
4-Chloroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
4-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
4-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Acenaphthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Acenaphthylene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Carbazole	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Chrysene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Dibenzofuran	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Diethyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Dimethyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Fluorene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Hexachlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Hexachloroethane	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Isophorone	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Naphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Nitrobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Pentachlorophenol	<730		730		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Phenanthrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Phenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
Pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
1,2-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1

Client Sample ID: SB-2 0'-11'

Lab Sample ID: 400-105845-4
Date Collected: 05/18/15 13:53
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*71*		*37 - 120*	*05/21/15 07:56*	*05/29/15 21:20*	*1*
Terphenyl-d14 (Surr)	*79*		*36 - 134*	*05/21/15 07:56*	*05/29/15 21:20*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*32 - 133*	*05/21/15 07:56*	*05/29/15 21:20*	*1*
2-Fluorobiphenyl	*74*		*44 - 120*	*05/21/15 07:56*	*05/29/15 21:20*	*1*
2-Fluorophenol (Surr)	*62*		*25 - 120*	*05/21/15 07:56*	*05/29/15 21:20*	*1*
Nitrobenzene-d5 (Surr)	*66*		*27 - 120*	*05/21/15 07:56*	*05/29/15 21:20*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 19:24	1
PCB-1221	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 19:24	1
PCB-1232	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 19:24	1
PCB-1242	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 19:24	1
PCB-1248	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 19:24	1
PCB-1254	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 19:24	1
PCB-1260	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 19:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*116*		*30 - 150*	*05/22/15 08:02*	*05/26/15 19:24*	*1*
Tetrachloro-m-xylene	*96*		*43 - 142*	*05/22/15 08:02*	*05/26/15 19:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.55		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Aluminum	**1200**		11		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Arsenic	<0.55		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Beryllium	<0.33		0.33		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Cadmium	<0.55		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Chromium	**3.1**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Copper	**1.4**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Nickel	**3.7**		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Lead	**5.3**		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Antimony	<5.5		5.5		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Selenium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Thallium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1
Zinc	**5.3**		2.2		mg/Kg	☼	05/21/15 11:41	05/23/15 14:52	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:36	05/26/15 13:26	1

Client Sample ID: SB-3 0'-8'

Lab Sample ID: 400-105845-5
Date Collected: 05/18/15 14:10
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1

Client Sample ID: SB-3 0'-8'
Date Collected: 05/18/15 14:10
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-5
Matrix: Solid
Percent Solids: 89.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
1,1,2-Trichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
1,1-Dichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
1,1-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
1,2-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
1,2-Dichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
1,2-Dichloropropane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
1,3-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
1,4-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
2-Hexanone	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Acetone	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Benzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Bromoform	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Bromomethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Carbon disulfide	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Carbon tetrachloride	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Chlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Chlorodibromomethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Chloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Chloroform	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Chloromethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
cis-1,2-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
cis-1,3-Dichloropropene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Dichlorobromomethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Ethylbenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
m-Xylene & p-Xylene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
2-Butanone (MEK)	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
4-Methyl-2-pentanone (MIBK)	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Methylene Chloride	<16		16		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
o-Xylene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Styrene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Tetrachloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Toluene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
trans-1,2-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
trans-1,3-Dichloropropene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Trichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Vinyl chloride	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1
Xylenes, Total	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*06/01/15 08:00*	*06/01/15 16:23*	*1*
Dibromofluoromethane	*98*		*79 - 123*	*06/01/15 08:00*	*06/01/15 16:23*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*06/01/15 08:00*	*06/01/15 16:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
1,4-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1

Client Sample ID: SB-3 0'-8'
Date Collected: 05/18/15 14:10
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-5
Matrix: Solid
Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2-Chlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2-Methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
3 & 4 Methylphenol	<730		730		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
4-Chloroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
4-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
4-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Acenaphthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Acenaphthylene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Carbazole	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Chrysene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Dibenzofuran	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Diethyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Dimethyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Fluorene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Hexachlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Hexachloroethane	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Isophorone	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1

Client Sample ID: SB-3 0'-8'
Date Collected: 05/18/15 14:10
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-5
Matrix: Solid
Percent Solids: 89.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Naphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Nitrobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Pentachlorophenol	<730		730		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Phenanthrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Phenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
1,2-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1
Dinoseb	<370		370		ug/Kg	☼	05/21/15 07:56	05/29/15 21:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*79*		*37 - 120*	*05/21/15 07:56*	*05/29/15 21:59*	*1*
Terphenyl-d14 (Surr)	*87*		*36 - 134*	*05/21/15 07:56*	*05/29/15 21:59*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*32 - 133*	*05/21/15 07:56*	*05/29/15 21:59*	*1*
2-Fluorobiphenyl	*78*		*44 - 120*	*05/21/15 07:56*	*05/29/15 21:59*	*1*
2-Fluorophenol (Surr)	*68*		*25 - 120*	*05/21/15 07:56*	*05/29/15 21:59*	*1*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*	*05/21/15 07:56*	*05/29/15 21:59*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 19:49	1
PCB-1221	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 19:49	1
PCB-1232	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 19:49	1
PCB-1242	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 19:49	1
PCB-1248	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 19:49	1
PCB-1254	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 19:49	1
PCB-1260	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*97*		*30 - 150*	*05/22/15 08:02*	*05/26/15 19:49*	*1*
Tetrachloro-m-xylene	*83*		*43 - 142*	*05/22/15 08:02*	*05/26/15 19:49*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.55		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Aluminum	**660**		11		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Arsenic	<0.55		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Beryllium	<0.33		0.33		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Cadmium	<0.55		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Chromium	**2.1**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Copper	**1.2**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Nickel	**0.85**		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Lead	**5.0**		0.55		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Antimony	<5.5		5.5		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Selenium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Thallium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1
Zinc	**5.1**		2.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:05	1

Client Sample ID: SB-3 0'-8'

Lab Sample ID: 400-105845-5
Date Collected: 05/18/15 14:10
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.055		0.017		mg/Kg	☼	05/21/15 09:36	05/26/15 13:27	1

Client Sample ID: B-2 0'-8'

Lab Sample ID: 400-105845-6
Date Collected: 05/18/15 14:25
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 93.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,1,2,2-Tetrachloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,1,2-Trichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,1-Dichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,1-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,2-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,2-Dichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,2-Dichloropropane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,3-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
1,4-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
2-Hexanone	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Acetone	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Benzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Bromoform	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Bromomethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Carbon disulfide	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Carbon tetrachloride	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Chlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Chlorodibromomethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Chloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Chloroform	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Chloromethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
cis-1,2-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
cis-1,3-Dichloropropene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Dichlorobromomethane	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Ethylbenzene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
m-Xylene & p-Xylene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
2-Butanone (MEK)	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
4-Methyl-2-pentanone (MIBK)	<26		26		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Methylene Chloride	<16		16		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
o-Xylene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Styrene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Tetrachloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Toluene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
trans-1,2-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
trans-1,3-Dichloropropene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Trichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Vinyl chloride	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1
Xylenes, Total	<5.2		5.2		ug/Kg	☼	06/01/15 08:00	06/01/15 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/01/15 08:00*	*06/01/15 16:49*	*1*

Client Sample ID: B-2 0'-8'
Date Collected: 05/18/15 14:25
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-6
Matrix: Solid
Percent Solids: 93.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*79 - 123*	*06/01/15 08:00*	*06/01/15 16:49*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*	*06/01/15 08:00*	*06/01/15 16:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
1,4-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
1-Methylnaphthalene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2,4,5-Trichlorophenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2,4,6-Trichlorophenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2,4-Dichlorophenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2,4-Dimethylphenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2-Chlorophenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2-Methylnaphthalene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2-Methylphenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2-Nitroaniline	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2-Nitrophenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
3 & 4 Methylphenol	<710		710		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
3,3'-Dichlorobenzidine	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
4,6-Dinitro-2-methylphenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
4-Bromophenyl phenyl ether	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
4-Chloro-3-methylphenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
4-Chloroaniline	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
4-Chlorophenyl phenyl ether	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
4-Nitroaniline	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
4-Nitrophenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Acenaphthene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Acenaphthylene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Anthracene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Benzo[a]anthracene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Benzo[a]pyrene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Benzo[b]fluoranthene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Benzo[g,h,i]perylene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Benzo[k]fluoranthene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Bis(2-chloroethoxy)methane	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Bis(2-chloroethyl)ether	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Bis(2-ethylhexyl) phthalate	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Butyl benzyl phthalate	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Carbazole	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Chrysene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Di-n-butyl phthalate	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Di-n-octyl phthalate	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Dibenz(a,h)anthracene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Dibenzofuran	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Diethyl phthalate	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Dimethyl phthalate	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Fluoranthene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1

Client Sample ID: B-2 0'-8'
Date Collected: 05/18/15 14:25
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-6
Matrix: Solid
Percent Solids: 93.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Hexachlorobenzene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Hexachlorobutadiene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Hexachlorocyclopentadiene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Hexachloroethane	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Indeno[1,2,3-cd]pyrene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Isophorone	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
N-Nitrosodi-n-propylamine	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
N-Nitrosodimethylamine	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
N-Nitrosodiphenylamine	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Naphthalene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Nitrobenzene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Pentachlorophenol	<710		710		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Phenanthrene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Phenol	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Pyrene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
1,2,4-Trichlorobenzene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
1,2-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2,4-Dinitrotoluene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
2,6-Dinitrotoluene	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1
Dinoseb	<350		350		ug/Kg	☼	05/21/15 07:56	05/29/15 22:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/21/15 07:56*	*05/29/15 22:38*	*1*
Terphenyl-d14 (Surr)	*82*		*36 - 134*	*05/21/15 07:56*	*05/29/15 22:38*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*32 - 133*	*05/21/15 07:56*	*05/29/15 22:38*	*1*
2-Fluorobiphenyl	*56*		*44 - 120*	*05/21/15 07:56*	*05/29/15 22:38*	*1*
2-Fluorophenol (Surr)	*50*		*25 - 120*	*05/21/15 07:56*	*05/29/15 22:38*	*1*
Nitrobenzene-d5 (Surr)	*44*		*27 - 120*	*05/21/15 07:56*	*05/29/15 22:38*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.1		9.1		ug/Kg	☼	05/22/15 08:02	05/26/15 20:14	1
PCB-1221	<9.1		9.1		ug/Kg	☼	05/22/15 08:02	05/26/15 20:14	1
PCB-1232	<9.1		9.1		ug/Kg	☼	05/22/15 08:02	05/26/15 20:14	1
PCB-1242	<9.1		9.1		ug/Kg	☼	05/22/15 08:02	05/26/15 20:14	1
PCB-1248	<9.1		9.1		ug/Kg	☼	05/22/15 08:02	05/26/15 20:14	1
PCB-1254	<9.1		9.1		ug/Kg	☼	05/22/15 08:02	05/26/15 20:14	1
PCB-1260	<9.1		9.1		ug/Kg	☼	05/22/15 08:02	05/26/15 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*115*		*30 - 150*	*05/22/15 08:02*	*05/26/15 20:14*	*1*
Tetrachloro-m-xylene	*89*		*43 - 142*	*05/22/15 08:02*	*05/26/15 20:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Aluminum	**320**		10		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Arsenic	<0.50		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Beryllium	<0.30		0.30		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1

Client Sample ID: B-2 0'-8'

Date Collected: 05/18/15 14:25
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-6
Matrix: Solid
Percent Solids: 93.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.50		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Chromium	**1.4**		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Copper	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Nickel	**0.52**		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Lead	**2.0**		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Antimony	<5.0		5.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Selenium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Thallium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1
Zinc	<2.0		2.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:08	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:36	05/26/15 13:28	1

Client Sample ID: TW-2

Date Collected: 05/18/15 15:08
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/31/15 20:44	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/31/15 20:44	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/31/15 20:44	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/31/15 20:44	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/31/15 20:44	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 20:44	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/31/15 20:44	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/31/15 20:44	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 20:44	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 20:44	1
2-Hexanone	<25		25		ug/L			05/31/15 20:44	1
Acetone	<25		25		ug/L			05/31/15 20:44	1
Benzene	<1.0		1.0		ug/L			05/31/15 20:44	1
Bromoform	<5.0		5.0		ug/L			05/31/15 20:44	1
Bromomethane	<1.0		1.0		ug/L			05/31/15 20:44	1
Carbon disulfide	<1.0		1.0		ug/L			05/31/15 20:44	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/31/15 20:44	1
Chlorobenzene	<1.0		1.0		ug/L			05/31/15 20:44	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/31/15 20:44	1
Chloroethane	<1.0		1.0		ug/L			05/31/15 20:44	1
Chloroform	<1.0		1.0		ug/L			05/31/15 20:44	1
Chloromethane	<1.0		1.0		ug/L			05/31/15 20:44	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 20:44	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 20:44	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/31/15 20:44	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/15 20:44	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/31/15 20:44	1
2-Butanone (MEK)	<25		25		ug/L			05/31/15 20:44	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/31/15 20:44	1
Methylene Chloride	<5.0		5.0		ug/L			05/31/15 20:44	1

Client Sample ID: TW-2
Date Collected: 05/18/15 15:08
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<5.0		5.0		ug/L			05/31/15 20:44	1
Styrene	<1.0		1.0		ug/L			05/31/15 20:44	1
Tetrachloroethene	<1.0		1.0		ug/L			05/31/15 20:44	1
Toluene	<1.0		1.0		ug/L			05/31/15 20:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 20:44	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 20:44	1
Trichloroethene	<1.0		1.0		ug/L			05/31/15 20:44	1
Vinyl chloride	<1.0		1.0		ug/L			05/31/15 20:44	1
Xylenes, Total	<5.0		5.0		ug/L			05/31/15 20:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/31/15 20:44*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*05/31/15 20:44*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/31/15 20:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:05	1
1,4-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:05	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2,4-Dimethylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/29/15 17:43	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2-Methylnaphthalene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2-Methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
3 & 4 Methylphenol	<21	*	21		ug/L		05/22/15 12:59	05/29/15 17:43	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
4-Bromophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
4-Chloro-3-methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
4-Chlorophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Acenaphthylene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Benzidine	<26	*	26		ug/L		05/22/15 12:59	05/29/15 17:43	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Benzo[b]fluoranthene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: TW-2
Date Collected: 05/18/15 15:08
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-7
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Dibenzofuran	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Hexachlorobenzene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Hexachlorobutadiene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:05	1
Hexachlorocyclopentadiene	<21	*	21		ug/L		05/22/15 12:59	05/29/15 17:43	1
Hexachloroethane	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:05	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/29/15 17:43	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Phenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
1,2,4-Trichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:05	1
1,2-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:05	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/29/15 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*58*		*10 - 120*	*05/22/15 12:59*	*05/29/15 17:43*	*1*
Phenol-d5 (Surr)	*54*		*10 - 120*	*05/29/15 11:19*	*06/01/15 16:05*	*1*
Terphenyl-d14 (Surr)	*95*		*53 - 125*	*05/22/15 12:59*	*05/29/15 17:43*	*1*
Terphenyl-d14 (Surr)	*87*		*53 - 125*	*05/29/15 11:19*	*06/01/15 16:05*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*15 - 135*	*05/22/15 12:59*	*05/29/15 17:43*	*1*
2,4,6-Tribromophenol (Surr)	*39*		*15 - 135*	*05/29/15 11:19*	*06/01/15 16:05*	*1*
2-Fluorobiphenyl	*78*		*34 - 120*	*05/22/15 12:59*	*05/29/15 17:43*	*1*
2-Fluorobiphenyl	*72*		*34 - 120*	*05/29/15 11:19*	*06/01/15 16:05*	*1*
2-Fluorophenol (Surr)	*55*		*10 - 120*	*05/22/15 12:59*	*05/29/15 17:43*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*05/29/15 11:19*	*06/01/15 16:05*	*1*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*	*05/22/15 12:59*	*05/29/15 17:43*	*1*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*	*05/29/15 11:19*	*06/01/15 16:05*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:25	1

Client Sample ID: TW-2

Date Collected: 05/18/15 15:08
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-7
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:25	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:25	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:25	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:25	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:25	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*10 - 125*	*05/22/15 08:24*	*05/29/15 14:25*	*1*
Tetrachloro-m-xylene	*76*		*46 - 150*	*05/22/15 08:24*	*05/29/15 14:25*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/21/15 10:05	05/21/15 17:54	1
Arsenic	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:54	1
Beryllium	<0.0030		0.0030		mg/L		05/21/15 10:05	05/21/15 17:54	1
Cadmium	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:54	1
Chromium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:54	1
Copper	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:54	1
Lead	**0.010**		0.0050		mg/L		05/21/15 10:05	05/21/15 17:54	1
Nickel	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:54	1
Selenium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:54	1
Silver	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:54	1
Thallium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:54	1
Zinc	<0.020		0.020		mg/L		05/21/15 10:05	05/21/15 17:54	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/15 10:49	05/26/15 09:47	1

Client Sample ID: B-3 0'-8'

Date Collected: 05/18/15 14:52
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-8
Matrix: Solid
Percent Solids: 74.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,1,2,2-Tetrachloroethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,1,2-Trichloroethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,1-Dichloroethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,1-Dichloroethene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,2-Dichlorobenzene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,2-Dichloroethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,2-Dichloropropane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,3-Dichlorobenzene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
1,4-Dichlorobenzene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
2-Hexanone	<34		34		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Acetone	<34		34		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Benzene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Bromoform	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1

Client Sample ID: B-3 0'-8'
Date Collected: 05/18/15 14:52
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-8
Matrix: Solid
Percent Solids: 74.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Carbon disulfide	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Carbon tetrachloride	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Chlorobenzene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Chlorodibromomethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Chloroethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Chloroform	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Chloromethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
cis-1,2-Dichloroethene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
cis-1,3-Dichloropropene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Dichlorobromomethane	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Ethylbenzene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
m-Xylene & p-Xylene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
2-Butanone (MEK)	<34		34		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
4-Methyl-2-pentanone (MIBK)	<34		34		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Methylene Chloride	<20		20		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
o-Xylene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Styrene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Tetrachloroethene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Toluene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
trans-1,2-Dichloroethene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
trans-1,3-Dichloropropene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Trichloroethene	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Vinyl chloride	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1
Xylenes, Total	<6.8		6.8		ug/Kg	☼	06/01/15 08:00	06/01/15 17:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*06/01/15 08:00*	*06/01/15 17:15*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*06/01/15 08:00*	*06/01/15 17:15*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*06/01/15 08:00*	*06/01/15 17:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
1,4-Dichlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
1-Methylnaphthalene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2,4,5-Trichlorophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2,4,6-Trichlorophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2,4-Dichlorophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2,4-Dimethylphenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2-Chlorophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2-Methylnaphthalene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2-Methylphenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2-Nitroaniline	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2-Nitrophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
3 & 4 Methylphenol	<870		870		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
3,3'-Dichlorobenzidine	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
4,6-Dinitro-2-methylphenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
4-Bromophenyl phenyl ether	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1

Client Sample ID: B-3 0'-8'
Date Collected: 05/18/15 14:52
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-8
Matrix: Solid
Percent Solids: 74.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloro-3-methylphenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
4-Chloroaniline	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
4-Chlorophenyl phenyl ether	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
4-Nitroaniline	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
4-Nitrophenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Acenaphthene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Acenaphthylene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Anthracene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Benzidine	<1300		1300		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Benzo[a]anthracene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Benzo[a]pyrene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Benzo[b]fluoranthene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Benzo[g,h,i]perylene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Benzo[k]fluoranthene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Bis(2-chloroethoxy)methane	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Bis(2-chloroethyl)ether	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Bis(2-ethylhexyl) phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Butyl benzyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Carbazole	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Chrysene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Di-n-butyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Di-n-octyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Dibenz(a,h)anthracene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Dibenzofuran	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Diethyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Dimethyl phthalate	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Fluoranthene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Fluorene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Hexachlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Hexachlorobutadiene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Hexachlorocyclopentadiene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Hexachloroethane	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Indeno[1,2,3-cd]pyrene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Isophorone	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
N-Nitrosodi-n-propylamine	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
N-Nitrosodimethylamine	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
N-Nitrosodiphenylamine	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Naphthalene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Nitrobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Pentachlorophenol	<870		870		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Phenanthrene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Phenol	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Pyrene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
1,2,4-Trichlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
1,2-Dichlorobenzene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2,4-Dinitrotoluene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
2,6-Dinitrotoluene	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1
Dinoseb	<440		440		ug/Kg	☼	05/21/15 07:56	05/29/15 23:17	1

Client Sample ID: B-3 0'-8'

Date Collected: 05/18/15 14:52
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-8

Matrix: Solid
Percent Solids: 74.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	67		37 - 120	05/21/15 07:56	05/29/15 23:17	1
Terphenyl-d14 (Surr)	74		36 - 134	05/21/15 07:56	05/29/15 23:17	1
2,4,6-Tribromophenol (Surr)	66		32 - 133	05/21/15 07:56	05/29/15 23:17	1
2-Fluorobiphenyl	68		44 - 120	05/21/15 07:56	05/29/15 23:17	1
2-Fluorophenol (Surr)	57		25 - 120	05/21/15 07:56	05/29/15 23:17	1
Nitrobenzene-d5 (Surr)	62		27 - 120	05/21/15 07:56	05/29/15 23:17	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 20:39	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 20:39	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 20:39	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 20:39	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 20:39	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 20:39	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 20:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	122		30 - 150	05/22/15 08:02	05/26/15 20:39	1
Tetrachloro-m-xylene	92		43 - 142	05/22/15 08:02	05/26/15 20:39	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.62		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Aluminum	**460**		12		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Arsenic	<0.62		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Beryllium	<0.37		0.37		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Cadmium	<0.62		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Chromium	**2.0**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Copper	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Nickel	<0.62		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Lead	**2.8**		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Antimony	<6.2		6.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Selenium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Thallium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1
Zinc	**2.5**		2.5		mg/Kg	☼	05/21/15 11:41	05/23/15 15:12	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.021		0.021		mg/Kg	☼	05/21/15 09:36	05/26/15 13:30	1

Client Sample ID: TW-3

Date Collected: 05/18/15 16:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-9

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/31/15 21:09	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/31/15 21:09	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/31/15 21:09	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/31/15 21:09	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: TW-3
Date Collected: 05/18/15 16:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<1.0		1.0		ug/L			05/31/15 21:09	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 21:09	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/31/15 21:09	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/31/15 21:09	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 21:09	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 21:09	1
2-Hexanone	<25		25		ug/L			05/31/15 21:09	1
Acetone	<25		25		ug/L			05/31/15 21:09	1
Benzene	<1.0		1.0		ug/L			05/31/15 21:09	1
Bromoform	<5.0		5.0		ug/L			05/31/15 21:09	1
Bromomethane	<1.0		1.0		ug/L			05/31/15 21:09	1
Carbon disulfide	<1.0		1.0		ug/L			05/31/15 21:09	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/31/15 21:09	1
Chlorobenzene	<1.0		1.0		ug/L			05/31/15 21:09	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/31/15 21:09	1
Chloroethane	<1.0		1.0		ug/L			05/31/15 21:09	1
Chloroform	<1.0		1.0		ug/L			05/31/15 21:09	1
Chloromethane	<1.0		1.0		ug/L			05/31/15 21:09	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 21:09	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 21:09	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/31/15 21:09	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/15 21:09	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/31/15 21:09	1
2-Butanone (MEK)	<25		25		ug/L			05/31/15 21:09	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/31/15 21:09	1
Methylene Chloride	<5.0		5.0		ug/L			05/31/15 21:09	1
o-Xylene	<5.0		5.0		ug/L			05/31/15 21:09	1
Styrene	<1.0		1.0		ug/L			05/31/15 21:09	1
Tetrachloroethene	<1.0		1.0		ug/L			05/31/15 21:09	1
Toluene	<1.0		1.0		ug/L			05/31/15 21:09	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 21:09	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 21:09	1
Trichloroethene	<1.0		1.0		ug/L			05/31/15 21:09	1
Vinyl chloride	<1.0		1.0		ug/L			05/31/15 21:09	1
Xylenes, Total	<5.0		5.0		ug/L			05/31/15 21:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*05/31/15 21:09*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*05/31/15 21:09*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/31/15 21:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:44	1
1,4-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:44	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2,4-Dimethylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1

Client Sample ID: TW-3
Date Collected: 05/18/15 16:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-9
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/29/15 18:19	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2-Methylnaphthalene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2-Methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
3 & 4 Methylphenol	<21	*	21		ug/L		05/22/15 12:59	05/29/15 18:19	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
4-Bromophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
4-Chloro-3-methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
4-Chlorophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Acenaphthylene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Benzidine	<26	*	26		ug/L		05/22/15 12:59	05/29/15 18:19	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Benzo[b]fluoranthene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Dibenzofuran	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Hexachlorobenzene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Hexachlorobutadiene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:44	1
Hexachlorocyclopentadiene	<21	*	21		ug/L		05/22/15 12:59	05/29/15 18:19	1
Hexachloroethane	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:44	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1

Client Sample ID: TW-3
Date Collected: 05/18/15 16:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-9
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/29/15 18:19	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Phenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
1,2,4-Trichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:44	1
1,2-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 16:44	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/29/15 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*73*		*10 - 120*	*05/22/15 12:59*	*05/29/15 18:19*	*1*
Phenol-d5 (Surr)	*72*		*10 - 120*	*05/29/15 11:19*	*06/01/15 16:44*	*1*
Terphenyl-d14 (Surr)	*101*		*53 - 125*	*05/22/15 12:59*	*05/29/15 18:19*	*1*
Terphenyl-d14 (Surr)	*108*		*53 - 125*	*05/29/15 11:19*	*06/01/15 16:44*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*15 - 135*	*05/22/15 12:59*	*05/29/15 18:19*	*1*
2,4,6-Tribromophenol (Surr)	*57*		*15 - 135*	*05/29/15 11:19*	*06/01/15 16:44*	*1*
2-Fluorobiphenyl	*84*		*34 - 120*	*05/22/15 12:59*	*05/29/15 18:19*	*1*
2-Fluorobiphenyl	*86*		*34 - 120*	*05/29/15 11:19*	*06/01/15 16:44*	*1*
2-Fluorophenol (Surr)	*63*		*10 - 120*	*05/22/15 12:59*	*05/29/15 18:19*	*1*
2-Fluorophenol (Surr)	*62*		*10 - 120*	*05/29/15 11:19*	*06/01/15 16:44*	*1*
Nitrobenzene-d5 (Surr)	*86*		*27 - 120*	*05/22/15 12:59*	*05/29/15 18:19*	*1*
Nitrobenzene-d5 (Surr)	*86*		*27 - 120*	*05/29/15 11:19*	*06/01/15 16:44*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:52	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:52	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:52	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:52	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:52	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:52	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 14:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*10 - 125*	*05/22/15 08:24*	*05/29/15 14:52*	*1*
Tetrachloro-m-xylene	*84*		*46 - 150*	*05/22/15 08:24*	*05/29/15 14:52*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/21/15 10:05	05/21/15 17:58	1
Arsenic	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:58	1
Beryllium	<0.0030		0.0030		mg/L		05/21/15 10:05	05/21/15 17:58	1
Cadmium	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:58	1
Chromium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:58	1
Copper	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:58	1
Lead	**0.010**		0.0050		mg/L		05/21/15 10:05	05/21/15 17:58	1
Nickel	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:58	1
Selenium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:58	1
Silver	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:58	1

Client Sample ID: TW-3

Lab Sample ID: 400-105845-9

Date Collected: 05/18/15 16:20

Matrix: Water

Date Received: 05/20/15 09:00

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:58	1
Zinc	<0.020		0.020		mg/L		05/21/15 10:05	05/21/15 17:58	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/15 10:49	05/26/15 09:48	1

Client Sample ID: SB-4 0'-8'

Lab Sample ID: 400-105845-10

Date Collected: 05/18/15 15:30

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 89.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,1,2,2-Tetrachloroethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,1,2-Trichloroethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,1-Dichloroethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,1-Dichloroethene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,2-Dichlorobenzene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,2-Dichloroethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,2-Dichloropropane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,3-Dichlorobenzene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
1,4-Dichlorobenzene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
2-Hexanone	<28		28		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Acetone	<28		28		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Benzene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Bromoform	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Bromomethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Carbon disulfide	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Carbon tetrachloride	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Chlorobenzene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Chlorodibromomethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Chloroethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Chloroform	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Chloromethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
cis-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
cis-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Dichlorobromomethane	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Ethylbenzene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
m-Xylene & p-Xylene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
2-Butanone (MEK)	<28		28		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Methylene Chloride	<17		17		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
o-Xylene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Styrene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Tetrachloroethene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Toluene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
trans-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
trans-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Trichloroethene	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1

Client Sample ID: SB-4 0'-8'
Date Collected: 05/18/15 15:30
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-10
Matrix: Solid
Percent Solids: 89.9

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1
Xylenes, Total	<5.6		5.6		ug/Kg	☼	06/01/15 08:00	06/01/15 17:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/01/15 08:00*	*06/01/15 17:41*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*06/01/15 08:00*	*06/01/15 17:41*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*06/01/15 08:00*	*06/01/15 17:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
1-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2-Chlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2-Methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
3 & 4 Methylphenol	<730		730		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
3,3'-Dichlorobenzidine	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
4,6-Dinitro-2-methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
4-Chloroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
4-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
4-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Acenaphthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Acenaphthylene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Benzo[a]anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Benzo[a]pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Carbazole	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Chrysene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1

Client Sample ID: SB-4 0'-8'
Date Collected: 05/18/15 15:30
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-10
Matrix: Solid
Percent Solids: 89.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Diethyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Dimethyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Fluorene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Hexachlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Hexachloroethane	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Isophorone	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Naphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Nitrobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Pentachlorophenol	<730		730		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Phenanthrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Phenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1
Dinoseb	<360		360		ug/Kg	☼	05/21/15 07:56	05/29/15 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*74*		*37 - 120*	*05/21/15 07:56*	*05/29/15 23:56*	*1*
Terphenyl-d14 (Surr)	*77*		*36 - 134*	*05/21/15 07:56*	*05/29/15 23:56*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*32 - 133*	*05/21/15 07:56*	*05/29/15 23:56*	*1*
2-Fluorobiphenyl	*73*		*44 - 120*	*05/21/15 07:56*	*05/29/15 23:56*	*1*
2-Fluorophenol (Surr)	*65*		*25 - 120*	*05/21/15 07:56*	*05/29/15 23:56*	*1*
Nitrobenzene-d5 (Surr)	*68*		*27 - 120*	*05/21/15 07:56*	*05/29/15 23:56*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 21:05	1
PCB-1221	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 21:05	1
PCB-1232	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 21:05	1
PCB-1242	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 21:05	1
PCB-1248	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 21:05	1
PCB-1254	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 21:05	1
PCB-1260	<9.5		9.5		ug/Kg	☼	05/22/15 08:02	05/26/15 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*30 - 150*	*05/22/15 08:02*	*05/26/15 21:05*	*1*
Tetrachloro-m-xylene	*78*		*43 - 142*	*05/22/15 08:02*	*05/26/15 21:05*	*1*

Client Sample ID: SB-4 0'-8'

Lab Sample ID: 400-105845-10
Date Collected: 05/18/15 15:30
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.9

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.53		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Aluminum	**420**		11		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Arsenic	<0.53		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Beryllium	<0.32		0.32		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Cadmium	<0.53		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Chromium	**1.7**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Copper	**1.3**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Nickel	**0.68**		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Lead	**2.9**		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Antimony	<5.3		5.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Selenium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Thallium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1
Zinc	**5.6**		2.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:15	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:36	05/26/15 13:31	1

Client Sample ID: SB-5 0'-9'

Lab Sample ID: 400-105845-11
Date Collected: 05/18/15 15:40
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 77.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,1,2,2-Tetrachloroethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,1,2-Trichloroethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,1-Dichloroethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,1-Dichloroethene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,2-Dichlorobenzene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,2-Dichloroethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,2-Dichloropropane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,3-Dichlorobenzene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
1,4-Dichlorobenzene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
2-Hexanone	<36		36		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Acetone	<36		36		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Benzene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Bromoform	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Bromomethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Carbon disulfide	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Carbon tetrachloride	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Chlorobenzene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Chlorodibromomethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Chloroethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Chloroform	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Chloromethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
cis-1,2-Dichloroethene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
cis-1,3-Dichloropropene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Dichlorobromomethane	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Ethylbenzene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1

Client Sample ID: SB-5 0'-9'
Date Collected: 05/18/15 15:40
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-11
Matrix: Solid
Percent Solids: 77.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
2-Butanone (MEK)	<36		36		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
4-Methyl-2-pentanone (MIBK)	<36		36		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Methylene Chloride	<21		21		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
o-Xylene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Styrene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Tetrachloroethene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Toluene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
trans-1,2-Dichloroethene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
trans-1,3-Dichloropropene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Trichloroethene	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Vinyl chloride	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1
Xylenes, Total	<7.1		7.1		ug/Kg	☼	06/01/15 08:00	06/01/15 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*06/01/15 08:00*	*06/01/15 18:06*	*1*
Dibromofluoromethane	*103*		*79 - 123*	*06/01/15 08:00*	*06/01/15 18:06*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*	*06/01/15 08:00*	*06/01/15 18:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
1,4-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
1-Methylnaphthalene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2,4-Dichlorophenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2-Chlorophenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2-Methylphenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2-Nitroaniline	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2-Nitrophenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
3 & 4 Methylphenol	<850		850		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
4-Chloroaniline	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
4-Nitroaniline	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
4-Nitrophenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Acenaphthene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Acenaphthylene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Anthracene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Benzidine	<1300		1300		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1

Client Sample ID: SB-5 0'-9'
Date Collected: 05/18/15 15:40
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-11
Matrix: Solid
Percent Solids: 77.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Carbazole	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Chrysene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Dibenzofuran	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Diethyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Dimethyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Fluoranthene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Fluorene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Hexachlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Hexachloroethane	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Isophorone	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
N-Nitrosodimethylamine	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Naphthalene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Nitrobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Pentachlorophenol	<850		850		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Phenanthrene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Phenol	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Pyrene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
1,2,4-Trichlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
1,2-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1
Dinoseb	<420		420		ug/Kg	☼	05/21/15 07:56	05/30/15 00:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*73*		*37 - 120*	*05/21/15 07:56*	*05/30/15 00:35*	*1*
Terphenyl-d14 (Surr)	*76*		*36 - 134*	*05/21/15 07:56*	*05/30/15 00:35*	*1*
2,4,6-Tribromophenol (Surr)	*72*		*32 - 133*	*05/21/15 07:56*	*05/30/15 00:35*	*1*
2-Fluorobiphenyl	*76*		*44 - 120*	*05/21/15 07:56*	*05/30/15 00:35*	*1*
2-Fluorophenol (Surr)	*64*		*25 - 120*	*05/21/15 07:56*	*05/30/15 00:35*	*1*
Nitrobenzene-d5 (Surr)	*67*		*27 - 120*	*05/21/15 07:56*	*05/30/15 00:35*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 21:29	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 21:29	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 21:29	1

Client Sample ID: SB-5 0'-9'

Lab Sample ID: 400-105845-11
Date Collected: 05/18/15 15:40
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 77.5

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 21:29	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 21:29	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 21:29	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*106*		*30 - 150*	*05/22/15 08:02*	*05/26/15 21:29*	*1*
Tetrachloro-m-xylene	*75*		*43 - 142*	*05/22/15 08:02*	*05/26/15 21:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.60		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Aluminum	**450**		12		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Arsenic	<0.60		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Cadmium	<0.60		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Chromium	**1.6**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Copper	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Nickel	**0.63**		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Lead	**2.0**		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Antimony	<6.0		6.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Selenium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Thallium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1
Zinc	**2.6**		2.4		mg/Kg	☼	05/21/15 11:41	05/23/15 15:18	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	05/21/15 09:36	05/26/15 13:32	1

Client Sample ID: SB-6 0'-8'

Lab Sample ID: 400-105845-12
Date Collected: 05/18/15 16:07
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,1,2,2-Tetrachloroethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,1,2-Trichloroethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,1-Dichloroethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,1-Dichloroethene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,2-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,2-Dichloroethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,2-Dichloropropane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,3-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
1,4-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
2-Hexanone	<28		28		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Acetone	<28		28		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Benzene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Bromoform	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Bromomethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1

Client Sample ID: SB-6 0'-8'
Date Collected: 05/18/15 16:07
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-12
Matrix: Solid
Percent Solids: 91.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Carbon tetrachloride	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Chlorobenzene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Chlorodibromomethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Chloroethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Chloroform	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Chloromethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
cis-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
cis-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Dichlorobromomethane	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Ethylbenzene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
m-Xylene & p-Xylene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
2-Butanone (MEK)	<28	*	28		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Methylene Chloride	<17		17		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
o-Xylene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Styrene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Tetrachloroethene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Toluene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
trans-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
trans-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Trichloroethene	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Vinyl chloride	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1
Xylenes, Total	<5.5		5.5		ug/Kg	☼	06/01/15 13:14	06/01/15 17:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*06/01/15 13:14*	*06/01/15 17:05*	*1*
Dibromofluoromethane	*108*		*79 - 123*	*06/01/15 13:14*	*06/01/15 17:05*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*06/01/15 13:14*	*06/01/15 17:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
1-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2-Chlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2-Methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
3 & 4 Methylphenol	<720		720		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
3,3'-Dichlorobenzidine	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
4,6-Dinitro-2-methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1

Client Sample ID: SB-6 0'-8'
Date Collected: 05/18/15 16:07
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-12
Matrix: Solid
Percent Solids: 91.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chloroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
4-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
4-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Acenaphthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Acenaphthylene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Benzo[a]anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Benzo[a]pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Carbazole	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Chrysene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Dibenzofuran	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Diethyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Dimethyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Fluorene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Hexachlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Hexachloroethane	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Isophorone	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Naphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Nitrobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Pentachlorophenol	<720		720		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Phenanthrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Phenol	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1
Dinoseb	<360		360		ug/Kg	☼	05/21/15 07:56	05/30/15 01:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*61*		*37 - 120*	*05/21/15 07:56*	*05/30/15 01:14*	*1*

Client Sample ID: SB-6 0'-8'

Lab Sample ID: 400-105845-12
Date Collected: 05/18/15 16:07
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 91.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*87*		*36 - 134*	*05/21/15 07:56*	*05/30/15 01:14*	*1*
2,4,6-Tribromophenol (Surr)	*79*		*32 - 133*	*05/21/15 07:56*	*05/30/15 01:14*	*1*
2-Fluorobiphenyl	*61*		*44 - 120*	*05/21/15 07:56*	*05/30/15 01:14*	*1*
2-Fluorophenol (Surr)	*50*		*25 - 120*	*05/21/15 07:56*	*05/30/15 01:14*	*1*
Nitrobenzene-d5 (Surr)	*52*		*27 - 120*	*05/21/15 07:56*	*05/30/15 01:14*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.2		9.2		ug/Kg	☼	05/22/15 08:02	05/26/15 21:55	1
PCB-1221	<9.2		9.2		ug/Kg	☼	05/22/15 08:02	05/26/15 21:55	1
PCB-1232	<9.2		9.2		ug/Kg	☼	05/22/15 08:02	05/26/15 21:55	1
PCB-1242	<9.2		9.2		ug/Kg	☼	05/22/15 08:02	05/26/15 21:55	1
PCB-1248	<9.2		9.2		ug/Kg	☼	05/22/15 08:02	05/26/15 21:55	1
PCB-1254	<9.2		9.2		ug/Kg	☼	05/22/15 08:02	05/26/15 21:55	1
PCB-1260	<9.2		9.2		ug/Kg	☼	05/22/15 08:02	05/26/15 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*110*		*30 - 150*	*05/22/15 08:02*	*05/26/15 21:55*	*1*
Tetrachloro-m-xylene	*92*		*43 - 142*	*05/22/15 08:02*	*05/26/15 21:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.53		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Aluminum	**340**		11		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Arsenic	<0.53		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Beryllium	<0.32		0.32		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Cadmium	<0.53		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Chromium	**1.4**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Copper	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Nickel	**0.53**		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Lead	**1.6**		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Antimony	<5.3		5.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Selenium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Thallium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1
Zinc	<2.1		2.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:36	05/26/15 13:34	1

Client Sample ID: SB-7 0'-8'

Lab Sample ID: 400-105845-13
Date Collected: 05/18/15 16:20
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
1,1,2,2-Tetrachloroethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
1,1,2-Trichloroethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
1,1-Dichloroethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-7 0'-8'
Date Collected: 05/18/15 16:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-13
Matrix: Solid
Percent Solids: 89.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
1,2-Dichlorobenzene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
1,2-Dichloroethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
1,2-Dichloropropane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
1,3-Dichlorobenzene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
1,4-Dichlorobenzene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
2-Hexanone	<26		26		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Acetone	<26		26		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Benzene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Bromoform	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Bromomethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Carbon disulfide	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Carbon tetrachloride	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Chlorobenzene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Chlorodibromomethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Chloroethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Chloroform	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Chloromethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
cis-1,2-Dichloroethene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
cis-1,3-Dichloropropene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Dichlorobromomethane	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Ethylbenzene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
m-Xylene & p-Xylene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
2-Butanone (MEK)	<26	*	26		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
4-Methyl-2-pentanone (MIBK)	<26		26		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Methylene Chloride	<16		16		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
o-Xylene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Styrene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Tetrachloroethene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Toluene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
trans-1,2-Dichloroethene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
trans-1,3-Dichloropropene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Trichloroethene	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Vinyl chloride	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1
Xylenes, Total	<5.3		5.3		ug/Kg	☼	06/01/15 13:14	06/01/15 17:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*06/01/15 13:14*	*06/01/15 17:32*	*1*
Dibromofluoromethane	*109*		*79 - 123*	*06/01/15 13:14*	*06/01/15 17:32*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*06/01/15 13:14*	*06/01/15 17:32*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
1,4-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1

Client Sample ID: SB-7 0'-8'
Date Collected: 05/18/15 16:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-13
Matrix: Solid
Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2-Chlorophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2-Methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
3 & 4 Methylphenol	<740		740		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
4-Chloroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
4-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
4-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Acenaphthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Acenaphthylene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Carbazole	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Chrysene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Dibenzofuran	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Diethyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Dimethyl phthalate	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Fluoranthene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Fluorene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Hexachlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Hexachloroethane	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Isophorone	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Naphthalene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Nitrobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1

Client Sample ID: SB-7 0'-8'
Date Collected: 05/18/15 16:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-13
Matrix: Solid
Percent Solids: 89.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<740		740		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Phenanthrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Phenol	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Pyrene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
1,2-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1
Dinoseb	<370		370		ug/Kg	☼	05/21/15 07:56	05/30/15 01:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*73*		*37 - 120*	*05/21/15 07:56*	*05/30/15 01:54*	*1*
Terphenyl-d14 (Surr)	*81*		*36 - 134*	*05/21/15 07:56*	*05/30/15 01:54*	*1*
2,4,6-Tribromophenol (Surr)	*71*		*32 - 133*	*05/21/15 07:56*	*05/30/15 01:54*	*1*
2-Fluorobiphenyl	*74*		*44 - 120*	*05/21/15 07:56*	*05/30/15 01:54*	*1*
2-Fluorophenol (Surr)	*63*		*25 - 120*	*05/21/15 07:56*	*05/30/15 01:54*	*1*
Nitrobenzene-d5 (Surr)	*65*		*27 - 120*	*05/21/15 07:56*	*05/30/15 01:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 22:20	1
PCB-1221	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 22:20	1
PCB-1232	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 22:20	1
PCB-1242	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 22:20	1
PCB-1248	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 22:20	1
PCB-1254	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 22:20	1
PCB-1260	<9.4		9.4		ug/Kg	☼	05/22/15 08:02	05/26/15 22:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*113*		*30 - 150*	*05/22/15 08:02*	*05/26/15 22:20*	*1*
Tetrachloro-m-xylene	*64*		*43 - 142*	*05/22/15 08:02*	*05/26/15 22:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Aluminum	**330**		10		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Arsenic	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Beryllium	<0.31		0.31		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Cadmium	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Chromium	**1.4**		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Copper	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Nickel	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Lead	**6.3**		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Antimony	<5.2		5.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Selenium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Thallium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1
Zinc	**2.7**		2.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:25	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:36	05/26/15 13:35	1

Client Sample ID: SB-8 0'-8'
Date Collected: 05/18/15 16:28
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-14
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,1,2,2-Tetrachloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,1,2-Trichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,1-Dichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,1-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,2-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,2-Dichloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,2-Dichloropropane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,3-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
1,4-Dichlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
2-Hexanone	<26		26		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Acetone	<26		26		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Benzene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Bromoform	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Bromomethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Carbon disulfide	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Carbon tetrachloride	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Chlorobenzene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Chlorodibromomethane	<5.2	F1	5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Chloroethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Chloroform	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Chloromethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
cis-1,2-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
cis-1,3-Dichloropropene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Dichlorobromomethane	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Ethylbenzene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
m-Xylene & p-Xylene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
2-Butanone (MEK)	<26		26		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
4-Methyl-2-pentanone (MIBK)	<26		26		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Methylene Chloride	<16		16		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
o-Xylene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Styrene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Tetrachloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Toluene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
trans-1,2-Dichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
trans-1,3-Dichloropropene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Trichloroethene	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Vinyl chloride	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1
Xylenes, Total	<5.2		5.2		ug/Kg	☼	06/01/15 13:14	06/01/15 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/01/15 13:14*	*06/01/15 17:59*	*1*
Dibromofluoromethane	*109*		*79 - 123*	*06/01/15 13:14*	*06/01/15 17:59*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*06/01/15 13:14*	*06/01/15 17:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
1-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-8 0'-8'
Date Collected: 05/18/15 16:28
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-14
Matrix: Solid
Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2-Chlorophenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2-Methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
3 & 4 Methylphenol	<710		710		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
3,3'-Dichlorobenzidine	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
4,6-Dinitro-2-methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
4-Chloroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
4-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
4-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Acenaphthene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Acenaphthylene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Benzo[a]anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Benzo[a]pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Carbazole	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Chrysene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Dibenzofuran	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Diethyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Dimethyl phthalate	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Fluoranthene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Fluorene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Hexachlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Hexachloroethane	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Isophorone	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1

Client Sample ID: SB-8 0'-8'
Date Collected: 05/18/15 16:28
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-14
Matrix: Solid
Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Naphthalene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Nitrobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Pentachlorophenol	<710		710		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Phenanthrene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Phenol	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Pyrene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1
Dinoseb	<360		360		ug/Kg	☼	05/21/15 07:56	06/01/15 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*90*		*37 - 120*	*05/21/15 07:56*	*06/01/15 16:30*	*1*
Terphenyl-d14 (Surr)	*112*		*36 - 134*	*05/21/15 07:56*	*06/01/15 16:30*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*32 - 133*	*05/21/15 07:56*	*06/01/15 16:30*	*1*
2-Fluorobiphenyl	*91*		*44 - 120*	*05/21/15 07:56*	*06/01/15 16:30*	*1*
2-Fluorophenol (Surr)	*81*		*25 - 120*	*05/21/15 07:56*	*06/01/15 16:30*	*1*
Nitrobenzene-d5 (Surr)	*81*		*27 - 120*	*05/21/15 07:56*	*06/01/15 16:30*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.0		9.0		ug/Kg	☼	05/22/15 08:02	05/26/15 22:45	1
PCB-1221	<9.0		9.0		ug/Kg	☼	05/22/15 08:02	05/26/15 22:45	1
PCB-1232	<9.0		9.0		ug/Kg	☼	05/22/15 08:02	05/26/15 22:45	1
PCB-1242	<9.0		9.0		ug/Kg	☼	05/22/15 08:02	05/26/15 22:45	1
PCB-1248	<9.0		9.0		ug/Kg	☼	05/22/15 08:02	05/26/15 22:45	1
PCB-1254	<9.0		9.0		ug/Kg	☼	05/22/15 08:02	05/26/15 22:45	1
PCB-1260	<9.0		9.0		ug/Kg	☼	05/22/15 08:02	05/26/15 22:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*101*		*30 - 150*	*05/22/15 08:02*	*05/26/15 22:45*	*1*
Tetrachloro-m-xylene	*78*		*43 - 142*	*05/22/15 08:02*	*05/26/15 22:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.51		0.51		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Aluminum	**340**		10		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Arsenic	<0.51		0.51		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Beryllium	<0.31		0.31		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Cadmium	<0.51		0.51		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Chromium	**1.7**		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Copper	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Nickel	<0.51		0.51		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Lead	**3.3**		0.51		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Antimony	<5.1		5.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Selenium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1
Thallium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1

Client Sample ID: SB-8 0'-8'

Lab Sample ID: 400-105845-14
Date Collected: 05/18/15 16:28
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 92.7

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.3		2.0		mg/Kg	☼	05/21/15 11:41	05/23/15 13:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	05/21/15 09:36	05/26/15 13:47	1

Client Sample ID: DB-1 0'-4'

Lab Sample ID: 400-105845-15
Date Collected: 05/19/15 08:30
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 76.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,1,2,2-Tetrachloroethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,1,2-Trichloroethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,1-Dichloroethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,1-Dichloroethene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,2-Dichlorobenzene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,2-Dichloroethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,2-Dichloropropane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,3-Dichlorobenzene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
1,4-Dichlorobenzene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
2-Hexanone	<35		35		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Acetone	<35		35		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Benzene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Bromoform	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Bromomethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Carbon disulfide	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Carbon tetrachloride	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Chlorobenzene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Chlorodibromomethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Chloroethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Chloroform	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Chloromethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
cis-1,2-Dichloroethene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
cis-1,3-Dichloropropene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Dichlorobromomethane	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Ethylbenzene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
m-Xylene & p-Xylene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
2-Butanone (MEK)	<35	*	35		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
4-Methyl-2-pentanone (MIBK)	<35		35		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Methylene Chloride	<21		21		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
o-Xylene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Styrene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Tetrachloroethene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Toluene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
trans-1,2-Dichloroethene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
trans-1,3-Dichloropropene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Trichloroethene	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1
Vinyl chloride	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: DB-1 0'-4'
Date Collected: 05/19/15 08:30
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-15
Matrix: Solid
Percent Solids: 76.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<7.0		7.0		ug/Kg	☼	06/01/15 13:14	06/01/15 19:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*06/01/15 13:14*	*06/01/15 19:46*	*1*
Dibromofluoromethane	*108*		*79 - 123*	*06/01/15 13:14*	*06/01/15 19:46*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*06/01/15 13:14*	*06/01/15 19:46*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
1,4-Dichlorobenzene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
1-Methylnaphthalene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2,4,5-Trichlorophenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2,4,6-Trichlorophenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2,4-Dichlorophenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2,4-Dimethylphenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2-Chlorophenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2-Methylnaphthalene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2-Methylphenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2-Nitroaniline	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2-Nitrophenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
3 & 4 Methylphenol	<860		860		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
3,3'-Dichlorobenzidine	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
4,6-Dinitro-2-methylphenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
4-Bromophenyl phenyl ether	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
4-Chloro-3-methylphenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
4-Chloroaniline	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
4-Chlorophenyl phenyl ether	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
4-Nitroaniline	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
4-Nitrophenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Acenaphthene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Acenaphthylene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Anthracene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Benzidine	<1300		1300		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Benzo[a]anthracene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Benzo[a]pyrene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Benzo[b]fluoranthene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Benzo[g,h,i]perylene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Benzo[k]fluoranthene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Bis(2-chloroethoxy)methane	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Bis(2-chloroethyl)ether	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Bis(2-ethylhexyl) phthalate	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Butyl benzyl phthalate	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Carbazole	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Chrysene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Di-n-butyl phthalate	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Di-n-octyl phthalate	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Dibenz(a,h)anthracene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Dibenzofuran	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1

Client Sample ID: DB-1 0'-4'
Date Collected: 05/19/15 08:30
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-15
Matrix: Solid
Percent Solids: 76.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Dimethyl phthalate	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Fluoranthene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Fluorene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Hexachlorobenzene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Hexachlorobutadiene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Hexachlorocyclopentadiene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Hexachloroethane	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Indeno[1,2,3-cd]pyrene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Isophorone	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
N-Nitrosodi-n-propylamine	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
N-Nitrosodimethylamine	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
N-Nitrosodiphenylamine	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Naphthalene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Nitrobenzene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Pentachlorophenol	<860		860		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Phenanthrene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Phenol	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Pyrene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
1,2,4-Trichlorobenzene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
1,2-Dichlorobenzene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2,4-Dinitrotoluene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
2,6-Dinitrotoluene	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1
Dinoseb	<430		430		ug/Kg	☼	05/21/15 07:56	06/01/15 17:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*83*		*37 - 120*	*05/21/15 07:56*	*06/01/15 17:06*	*1*
Terphenyl-d14 (Surr)	*100*		*36 - 134*	*05/21/15 07:56*	*06/01/15 17:06*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*32 - 133*	*05/21/15 07:56*	*06/01/15 17:06*	*1*
2-Fluorobiphenyl	*88*		*44 - 120*	*05/21/15 07:56*	*06/01/15 17:06*	*1*
2-Fluorophenol (Surr)	*76*		*25 - 120*	*05/21/15 07:56*	*06/01/15 17:06*	*1*
Nitrobenzene-d5 (Surr)	*75*		*27 - 120*	*05/21/15 07:56*	*06/01/15 17:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:10	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:10	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:10	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:10	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:10	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:10	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*105*		*30 - 150*	*05/22/15 08:02*	*05/26/15 23:10*	*1*
Tetrachloro-m-xylene	*85*		*43 - 142*	*05/22/15 08:02*	*05/26/15 23:10*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.63		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1

Client Sample ID: DB-1 0'-4'

Lab Sample ID: 400-105845-15
Date Collected: 05/19/15 08:30
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 76.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**560**		13		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Arsenic	<0.63		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Beryllium	<0.38		0.38		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Cadmium	<0.63		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Chromium	**2.1**		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Copper	**1.3**		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Nickel	**0.65**		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Lead	**2.6**		0.63		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Antimony	<6.3		6.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Selenium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Thallium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1
Zinc	**4.7**		2.5		mg/Kg	☼	05/21/15 11:41	05/23/15 15:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.021		0.021		mg/Kg	☼	05/21/15 09:36	05/26/15 13:48	1

Client Sample ID: B-4 0'-4'

Lab Sample ID: 400-105845-16
Date Collected: 05/19/15 08:42
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 78.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,1,2,2-Tetrachloroethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,1,2-Trichloroethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,1-Dichloroethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,1-Dichloroethene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,2-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,2-Dichloroethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,2-Dichloropropane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,3-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
1,4-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
2-Hexanone	<32		32		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Acetone	**63**		32		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Benzene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Bromoform	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Bromomethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Carbon disulfide	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Carbon tetrachloride	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Chlorobenzene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Chlorodibromomethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Chloroethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Chloroform	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Chloromethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
cis-1,2-Dichloroethene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
cis-1,3-Dichloropropene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Dichlorobromomethane	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Ethylbenzene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
m-Xylene & p-Xylene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1

Client Sample ID: B-4 0'-4'
Date Collected: 05/19/15 08:42
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-16
Matrix: Solid
Percent Solids: 78.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<32	*	32		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
4-Methyl-2-pentanone (MIBK)	<32		32		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Methylene Chloride	<19		19		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
o-Xylene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Styrene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Tetrachloroethene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Toluene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
trans-1,2-Dichloroethene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
trans-1,3-Dichloropropene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Trichloroethene	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Vinyl chloride	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1
Xylenes, Total	<6.4		6.4		ug/Kg	☼	06/01/15 13:14	06/01/15 20:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 122*	*06/01/15 13:14*	*06/01/15 20:13*	*1*
Dibromofluoromethane	*109*		*79 - 123*	*06/01/15 13:14*	*06/01/15 20:13*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*06/01/15 13:14*	*06/01/15 20:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
1,4-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
1-Methylnaphthalene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2,4-Dichlorophenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2-Chlorophenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2-Methylphenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2-Nitroaniline	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2-Nitrophenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
3 & 4 Methylphenol	<840		840		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
4-Chloroaniline	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
4-Nitroaniline	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
4-Nitrophenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Acenaphthene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Acenaphthylene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Anthracene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Benzidine	<1300		1300		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1

Client Sample ID: B-4 0'-4'
Date Collected: 05/19/15 08:42
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-16
Matrix: Solid
Percent Solids: 78.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Carbazole	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Chrysene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Dibenzofuran	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Diethyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Dimethyl phthalate	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Fluoranthene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Fluorene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Hexachlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Hexachloroethane	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Isophorone	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
N-Nitrosodimethylamine	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Naphthalene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Nitrobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Pentachlorophenol	<840		840		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Phenanthrene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Phenol	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Pyrene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
1,2,4-Trichlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
1,2-Dichlorobenzene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1
Dinoseb	<420		420		ug/Kg	☼	05/21/15 07:56	06/01/15 17:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*63*		*37 - 120*	*05/21/15 07:56*	*06/01/15 17:42*	*1*
Terphenyl-d14 (Surr)	*91*		*36 - 134*	*05/21/15 07:56*	*06/01/15 17:42*	*1*
2,4,6-Tribromophenol (Surr)	*61*		*32 - 133*	*05/21/15 07:56*	*06/01/15 17:42*	*1*
2-Fluorobiphenyl	*66*		*44 - 120*	*05/21/15 07:56*	*06/01/15 17:42*	*1*
2-Fluorophenol (Surr)	*57*		*25 - 120*	*05/21/15 07:56*	*06/01/15 17:42*	*1*
Nitrobenzene-d5 (Surr)	*56*		*27 - 120*	*05/21/15 07:56*	*06/01/15 17:42*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:35	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:35	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:35	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:35	1

Client Sample ID: B-4 0'-4'

Lab Sample ID: 400-105845-16
Date Collected: 05/19/15 08:42
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 78.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:35	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:35	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:02	05/26/15 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*71*		*30 - 150*	*05/22/15 08:02*	*05/26/15 23:35*	*1*
Tetrachloro-m-xylene	*71*		*43 - 142*	*05/22/15 08:02*	*05/26/15 23:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.58		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Aluminum	**12000**		12		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Arsenic	**6.3**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Beryllium	<0.35		0.35		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Cadmium	<0.58		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Chromium	**120**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Copper	**5.2**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Nickel	**2.4**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Lead	**8.9**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Antimony	<5.8		5.8		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Selenium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Thallium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1
Zinc	**5.4**		2.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	05/21/15 09:36	05/26/15 13:49	1

Client Sample ID: TW-4

Lab Sample ID: 400-105845-17
Date Collected: 05/19/15 10:10
Matrix: Water
Date Received: 05/20/15 09:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/31/15 21:35	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/31/15 21:35	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/31/15 21:35	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/31/15 21:35	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/31/15 21:35	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 21:35	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/31/15 21:35	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/31/15 21:35	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 21:35	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 21:35	1
2-Hexanone	<25		25		ug/L			05/31/15 21:35	1
Acetone	<25		25		ug/L			05/31/15 21:35	1
Benzene	<1.0		1.0		ug/L			05/31/15 21:35	1
Bromoform	<5.0		5.0		ug/L			05/31/15 21:35	1
Bromomethane	<1.0		1.0		ug/L			05/31/15 21:35	1
Carbon disulfide	<1.0		1.0		ug/L			05/31/15 21:35	1

Client Sample ID: TW-4
Date Collected: 05/19/15 10:10
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.0		1.0		ug/L			05/31/15 21:35	1
Chlorobenzene	<1.0		1.0		ug/L			05/31/15 21:35	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/31/15 21:35	1
Chloroethane	<1.0		1.0		ug/L			05/31/15 21:35	1
Chloroform	<1.0		1.0		ug/L			05/31/15 21:35	1
Chloromethane	<1.0		1.0		ug/L			05/31/15 21:35	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 21:35	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 21:35	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/31/15 21:35	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/15 21:35	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/31/15 21:35	1
2-Butanone (MEK)	<25		25		ug/L			05/31/15 21:35	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/31/15 21:35	1
Methylene Chloride	<5.0		5.0		ug/L			05/31/15 21:35	1
o-Xylene	<5.0		5.0		ug/L			05/31/15 21:35	1
Styrene	<1.0		1.0		ug/L			05/31/15 21:35	1
Tetrachloroethene	<1.0		1.0		ug/L			05/31/15 21:35	1
Toluene	<1.0		1.0		ug/L			05/31/15 21:35	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 21:35	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 21:35	1
Trichloroethene	<1.0		1.0		ug/L			05/31/15 21:35	1
Vinyl chloride	<1.0		1.0		ug/L			05/31/15 21:35	1
Xylenes, Total	<5.0		5.0		ug/L			05/31/15 21:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/31/15 21:35*	*1*
Dibromofluoromethane	*100*		*81 - 121*		*05/31/15 21:35*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/31/15 21:35*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 17:22	1
1,4-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 17:22	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2,4-Dimethylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/29/15 18:55	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2-Methylnaphthalene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2-Methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
3 & 4 Methylphenol	<21	*	21		ug/L		05/22/15 12:59	05/29/15 18:55	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
4-Bromophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
4-Chloro-3-methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1

Client Sample ID: TW-4
Date Collected: 05/19/15 10:10
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-17
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Acenaphthylene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Benzidine	<26	*	26		ug/L		05/22/15 12:59	05/29/15 18:55	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Benzo[b]fluoranthene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Dibenzofuran	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Hexachlorobenzene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Hexachlorobutadiene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 17:22	1
Hexachlorocyclopentadiene	<21	*	21		ug/L		05/22/15 12:59	05/29/15 18:55	1
Hexachloroethane	<11	H	11		ug/L		05/29/15 11:19	06/01/15 17:22	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/29/15 18:55	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Phenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
1,2,4-Trichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 17:22	1
1,2-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 17:22	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/29/15 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*80*		*10 - 120*	*05/22/15 12:59*	*05/29/15 18:55*	*1*
Phenol-d5 (Surr)	*68*		*10 - 120*	*05/29/15 11:19*	*06/01/15 17:22*	*1*

Client Sample ID: TW-4
Date Collected: 05/19/15 10:10
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-17
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Terphenyl-d14 (Surr)	84		53 - 125	05/22/15 12:59	05/29/15 18:55	1
Terphenyl-d14 (Surr)	89		53 - 125	05/29/15 11:19	06/01/15 17:22	1
2,4,6-Tribromophenol (Surr)	94		15 - 135	05/22/15 12:59	05/29/15 18:55	1
2,4,6-Tribromophenol (Surr)	94		15 - 135	05/29/15 11:19	06/01/15 17:22	1
2-Fluorobiphenyl	91		34 - 120	05/22/15 12:59	05/29/15 18:55	1
2-Fluorobiphenyl	76		34 - 120	05/29/15 11:19	06/01/15 17:22	1
2-Fluorophenol (Surr)	68		10 - 120	05/22/15 12:59	05/29/15 18:55	1
2-Fluorophenol (Surr)	50		10 - 120	05/29/15 11:19	06/01/15 17:22	1
Nitrobenzene-d5 (Surr)	95		27 - 120	05/22/15 12:59	05/29/15 18:55	1
Nitrobenzene-d5 (Surr)	74		27 - 120	05/29/15 11:19	06/01/15 17:22	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 15:18	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 15:18	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 15:18	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 15:18	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 15:18	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 15:18	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 15:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	36		10 - 125	05/22/15 08:24	05/29/15 15:18	1
Tetrachloro-m-xylene	66		46 - 150	05/22/15 08:24	05/29/15 15:18	1

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/21/15 10:05	05/21/15 18:01	1
Arsenic	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:01	1
Beryllium	<0.0030		0.0030		mg/L		05/21/15 10:05	05/21/15 18:01	1
Cadmium	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:01	1
Chromium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:01	1
Copper	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:01	1
Lead	**0.011**		0.0050		mg/L		05/21/15 10:05	05/21/15 18:01	1
Nickel	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:01	1
Selenium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:01	1
Silver	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:01	1
Thallium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:01	1
Zinc	<0.020		0.020		mg/L		05/21/15 10:05	05/21/15 18:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/15 10:49	05/26/15 10:14	1

Client Sample ID: SB-9 0'-4'
Date Collected: 05/19/15 09:05
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-18
Matrix: Solid
Percent Solids: 82.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,1,2,2-Tetrachloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,1,2-Trichloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,1-Dichloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,1-Dichloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,2-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,2-Dichloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,2-Dichloropropane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,3-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
1,4-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
2-Hexanone	<31		31		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Acetone	**65**		31		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Benzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Bromoform	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Bromomethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Carbon disulfide	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Carbon tetrachloride	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Chlorobenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Chlorodibromomethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Chloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Chloroform	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Chloromethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
cis-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
cis-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Dichlorobromomethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Ethylbenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
m-Xylene & p-Xylene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
2-Butanone (MEK)	<31	*	31		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Methylene Chloride	<18		18		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
o-Xylene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Styrene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Tetrachloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Toluene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
trans-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
trans-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Trichloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Vinyl chloride	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1
Xylenes, Total	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 122*	*06/01/15 13:14*	*06/01/15 20:40*	*1*
Dibromofluoromethane	*108*		*79 - 123*	*06/01/15 13:14*	*06/01/15 20:40*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*06/01/15 13:14*	*06/01/15 20:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1

Client Sample ID: SB-9 0'-4'
Date Collected: 05/19/15 09:05
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-18
Matrix: Solid
Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2-Methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
3 & 4 Methylphenol	<800		800		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Acenaphthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Acenaphthylene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Benzidine	<1200		1200		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Carbazole	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Chrysene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Dibenzofuran	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Diethyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Fluorene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Hexachloroethane	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Isophorone	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1

Client Sample ID: SB-9 0'-4'
Date Collected: 05/19/15 09:05
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-18
Matrix: Solid
Percent Solids: 82.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Naphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Nitrobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Pentachlorophenol	<800		800		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Phenanthrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Phenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1
Dinoseb	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*50*		*37 - 120*	*05/21/15 07:56*	*06/01/15 18:18*	*1*
Terphenyl-d14 (Surr)	*72*		*36 - 134*	*05/21/15 07:56*	*06/01/15 18:18*	*1*
2,4,6-Tribromophenol (Surr)	*66*		*32 - 133*	*05/21/15 07:56*	*06/01/15 18:18*	*1*
2-Fluorobiphenyl	*55*		*44 - 120*	*05/21/15 07:56*	*06/01/15 18:18*	*1*
2-Fluorophenol (Surr)	*46*		*25 - 120*	*05/21/15 07:56*	*06/01/15 18:18*	*1*
Nitrobenzene-d5 (Surr)	*47*		*27 - 120*	*05/21/15 07:56*	*06/01/15 18:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 00:00	1
PCB-1221	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 00:00	1
PCB-1232	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 00:00	1
PCB-1242	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 00:00	1
PCB-1248	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 00:00	1
PCB-1254	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 00:00	1
PCB-1260	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 00:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*90*		*30 - 150*	*05/22/15 08:02*	*05/27/15 00:00*	*1*
Tetrachloro-m-xylene	*67*		*43 - 142*	*05/22/15 08:02*	*05/27/15 00:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.58		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Aluminum	**1900**		12		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Arsenic	**8.7**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Beryllium	<0.35		0.35		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Cadmium	<0.58		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Chromium	**4.3**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Copper	**4.5**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Nickel	**1.5**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Lead	**230**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Antimony	**24**		5.8		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Selenium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1
Thallium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1

Client Sample ID: SB-9 0'-4'

Lab Sample ID: 400-105845-18
Date Collected: 05/19/15 09:05
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 82.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**8.5**		2.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.098**		0.018		mg/Kg	☼	05/21/15 09:36	05/26/15 13:50	1

Client Sample ID: SB-10 0'-3.5'

Lab Sample ID: 400-105845-19
Date Collected: 05/19/15 09:20
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,1,2,2-Tetrachloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,1,2-Trichloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,1-Dichloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,1-Dichloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,2-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,2-Dichloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,2-Dichloropropane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,3-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
1,4-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
2-Hexanone	<31		31		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Acetone	**91**		31		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Benzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Bromoform	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Bromomethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Carbon disulfide	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Carbon tetrachloride	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Chlorobenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Chlorodibromomethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Chloroethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Chloroform	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Chloromethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
cis-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
cis-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Dichlorobromomethane	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Ethylbenzene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
m-Xylene & p-Xylene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
2-Butanone (MEK)	<31	*	31		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Methylene Chloride	<19		19		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
o-Xylene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Styrene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Tetrachloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Toluene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
trans-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
trans-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Trichloroethene	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1
Vinyl chloride	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1

Client Sample ID: SB-10 0'-3.5'
Date Collected: 05/19/15 09:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-19
Matrix: Solid
Percent Solids: 80.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<6.2		6.2		ug/Kg	☼	06/01/15 13:14	06/01/15 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/01/15 13:14*	*06/01/15 21:07*	*1*
Dibromofluoromethane	*108*		*79 - 123*	*06/01/15 13:14*	*06/01/15 21:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*06/01/15 13:14*	*06/01/15 21:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2-Methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
3 & 4 Methylphenol	<810		810		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Acenaphthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Acenaphthylene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Benzidine	<1200		1200		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Carbazole	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Chrysene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Dibenzofuran	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1

Client Sample ID: SB-10 0'-3.5'
Date Collected: 05/19/15 09:20
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-19
Matrix: Solid
Percent Solids: 80.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Fluorene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Hexachloroethane	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Isophorone	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Naphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Nitrobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Pentachlorophenol	<810		810		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Phenanthrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Phenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1
Dinoseb	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*75*		*37 - 120*	*05/21/15 07:56*	*06/01/15 18:54*	*1*
Terphenyl-d14 (Surr)	*98*		*36 - 134*	*05/21/15 07:56*	*06/01/15 18:54*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*32 - 133*	*05/21/15 07:56*	*06/01/15 18:54*	*1*
2-Fluorobiphenyl	*79*		*44 - 120*	*05/21/15 07:56*	*06/01/15 18:54*	*1*
2-Fluorophenol (Surr)	*67*		*25 - 120*	*05/21/15 07:56*	*06/01/15 18:54*	*1*
Nitrobenzene-d5 (Surr)	*69*		*27 - 120*	*05/21/15 07:56*	*06/01/15 18:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:02	05/27/15 01:15	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:02	05/27/15 01:15	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:02	05/27/15 01:15	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:02	05/27/15 01:15	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:02	05/27/15 01:15	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:02	05/27/15 01:15	1
PCB-1260	**85**		11		ug/Kg	☼	05/22/15 08:02	05/27/15 01:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*30 - 150*	*05/22/15 08:02*	*05/27/15 01:15*	*1*
Tetrachloro-m-xylene	*90*		*43 - 142*	*05/22/15 08:02*	*05/27/15 01:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.58		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1

Client Sample ID: SB-10 0'-3.5'

Lab Sample ID: 400-105845-19
Date Collected: 05/19/15 09:20
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 80.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2200**		12		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Arsenic	**9.9**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Beryllium	<0.35		0.35		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Cadmium	<0.58		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Chromium	**9.6**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Copper	**17**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Nickel	**5.4**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Lead	**40**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Antimony	<5.8		5.8		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Selenium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1
Zinc	**45**		2.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:48	1

Method: 6010B - Metals (ICP) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	<2.3		2.3		mg/Kg	☼	05/21/15 11:41	05/25/15 12:45	2

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.045**		0.020		mg/Kg	☼	05/21/15 09:36	05/26/15 13:52	1

Client Sample ID: SB-11 0'-3'

Lab Sample ID: 400-105845-20
Date Collected: 05/19/15 09:36
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 62.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,1,2,2-Tetrachloroethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,1,2-Trichloroethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,1-Dichloroethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,1-Dichloroethene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,2-Dichlorobenzene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,2-Dichloroethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,2-Dichloropropane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,3-Dichlorobenzene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
1,4-Dichlorobenzene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
2-Hexanone	<39		39		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Acetone	<39		39		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Benzene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Bromoform	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Bromomethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Carbon disulfide	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Carbon tetrachloride	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Chlorobenzene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Chlorodibromomethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Chloroethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Chloroform	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Chloromethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
cis-1,2-Dichloroethene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
cis-1,3-Dichloropropene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1

Client Sample ID: SB-11 0'-3'
Date Collected: 05/19/15 09:36
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-20
Matrix: Solid
Percent Solids: 62.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Ethylbenzene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
m-Xylene & p-Xylene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
2-Butanone (MEK)	<39	*	39		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
4-Methyl-2-pentanone (MIBK)	<39		39		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Methylene Chloride	<23		23		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
o-Xylene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Styrene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Tetrachloroethene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Toluene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
trans-1,2-Dichloroethene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
trans-1,3-Dichloropropene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Trichloroethene	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Vinyl chloride	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1
Xylenes, Total	<7.7		7.7		ug/Kg	☼	06/01/15 13:14	06/01/15 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*06/01/15 13:14*	*06/01/15 21:34*	*1*
Dibromofluoromethane	*108*		*79 - 123*	*06/01/15 13:14*	*06/01/15 21:34*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*06/01/15 13:14*	*06/01/15 21:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
1,4-Dichlorobenzene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
1-Methylnaphthalene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2,4,5-Trichlorophenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2,4,6-Trichlorophenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2,4-Dichlorophenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2,4-Dimethylphenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2,4-Dinitrophenol	<1600		1600		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2-Chlorophenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2-Methylnaphthalene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2-Methylphenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2-Nitroaniline	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2-Nitrophenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
3 & 4 Methylphenol	<1000		1000		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
3,3'-Dichlorobenzidine	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
4,6-Dinitro-2-methylphenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
4-Bromophenyl phenyl ether	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
4-Chloro-3-methylphenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
4-Chloroaniline	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
4-Chlorophenyl phenyl ether	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
4-Nitroaniline	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
4-Nitrophenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Acenaphthene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Acenaphthylene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Anthracene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Benzidine	<1600		1600		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Benzo[a]anthracene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1

Client Sample ID: SB-11 0'-3'
Date Collected: 05/19/15 09:36
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-20
Matrix: Solid
Percent Solids: 62.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Benzo[b]fluoranthene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Benzo[g,h,i]perylene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Benzo[k]fluoranthene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Bis(2-chloroethoxy)methane	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Bis(2-chloroethyl)ether	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Bis(2-ethylhexyl) phthalate	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Butyl benzyl phthalate	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Carbazole	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Chrysene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Di-n-butyl phthalate	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Di-n-octyl phthalate	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Dibenz(a,h)anthracene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Dibenzofuran	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Diethyl phthalate	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Dimethyl phthalate	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Fluoranthene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Fluorene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Hexachlorobenzene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Hexachlorobutadiene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Hexachlorocyclopentadiene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Hexachloroethane	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Indeno[1,2,3-cd]pyrene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Isophorone	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
N-Nitrosodi-n-propylamine	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
N-Nitrosodimethylamine	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
N-Nitrosodiphenylamine	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Naphthalene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Nitrobenzene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Pentachlorophenol	<1000		1000		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Phenanthrene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Phenol	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Pyrene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
1,2,4-Trichlorobenzene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
1,2-Dichlorobenzene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2,4-Dinitrotoluene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
2,6-Dinitrotoluene	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1
Dinoseb	<520		520		ug/Kg	☼	05/21/15 07:56	06/01/15 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*74*		*37 - 120*	*05/21/15 07:56*	*06/01/15 19:30*	*1*
Terphenyl-d14 (Surr)	*98*		*36 - 134*	*05/21/15 07:56*	*06/01/15 19:30*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*32 - 133*	*05/21/15 07:56*	*06/01/15 19:30*	*1*
2-Fluorobiphenyl	*78*		*44 - 120*	*05/21/15 07:56*	*06/01/15 19:30*	*1*
2-Fluorophenol (Surr)	*69*		*25 - 120*	*05/21/15 07:56*	*06/01/15 19:30*	*1*
Nitrobenzene-d5 (Surr)	*70*		*27 - 120*	*05/21/15 07:56*	*06/01/15 19:30*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<14		14		ug/Kg	☼	05/22/15 08:02	05/27/15 01:39	1

Client Sample ID: SB-11 0'-3'

Lab Sample ID: 400-105845-20
Date Collected: 05/19/15 09:36
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 62.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1221	<14		14		ug/Kg	☼	05/22/15 08:02	05/27/15 01:39	1
PCB-1232	<14		14		ug/Kg	☼	05/22/15 08:02	05/27/15 01:39	1
PCB-1242	<14		14		ug/Kg	☼	05/22/15 08:02	05/27/15 01:39	1
PCB-1248	<14		14		ug/Kg	☼	05/22/15 08:02	05/27/15 01:39	1
PCB-1254	<14		14		ug/Kg	☼	05/22/15 08:02	05/27/15 01:39	1
PCB-1260	<14		14		ug/Kg	☼	05/22/15 08:02	05/27/15 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*72*		*30 - 150*	*05/22/15 08:02*	*05/27/15 01:39*	*1*
Tetrachloro-m-xylene	*68*		*43 - 142*	*05/22/15 08:02*	*05/27/15 01:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.77		0.77		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Aluminum	**7700**		15		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Arsenic	**3.9**		0.77		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Beryllium	**0.49**		0.46		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Cadmium	<0.77		0.77		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Chromium	**17**		1.5		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Copper	**110**		1.5		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Nickel	**7.9**		0.77		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Lead	**22**		0.77		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Antimony	<7.7		7.7		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Selenium	<1.5		1.5		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Thallium	<1.5		1.5		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1
Zinc	**80**		3.1		mg/Kg	☼	05/21/15 11:41	05/23/15 15:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.051**		0.024		mg/Kg	☼	05/21/15 09:36	05/26/15 13:53	1

Client Sample ID: SB-12 0'-3'

Lab Sample ID: 400-105845-21
Date Collected: 05/19/15 09:50
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,1,2,2-Tetrachloroethane	<6.0	*	6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,1,2-Trichloroethane	<6.0	*	6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,2-Dichlorobenzene	<6.0	F2	6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,3-Dichlorobenzene	<6.0	F2	6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
1,4-Dichlorobenzene	<6.0	F2	6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
2-Hexanone	<30		30		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Acetone	<30	F2	30		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Benzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1

Client Sample ID: SB-12 0'-3'
Date Collected: 05/19/15 09:50
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-21
Matrix: Solid
Percent Solids: 81.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Bromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Chloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Chloroform	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Chloromethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
m-Xylene & p-Xylene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
2-Butanone (MEK)	<30	*	30		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
o-Xylene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Styrene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Tetrachloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Toluene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Trichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Vinyl chloride	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1
Xylenes, Total	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 13:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*06/02/15 10:19*	*06/02/15 13:07*	*1*
Dibromofluoromethane	*109*		*79 - 123*	*06/02/15 10:19*	*06/02/15 13:07*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*06/02/15 10:19*	*06/02/15 13:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2-Methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
3 & 4 Methylphenol	<810		810		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-12 0'-3'
Date Collected: 05/19/15 09:50
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-21
Matrix: Solid
Percent Solids: 81.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Acenaphthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Acenaphthylene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Benzidine	<1200		1200		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Carbazole	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Chrysene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Dibenzofuran	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Diethyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Fluorene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Hexachloroethane	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Isophorone	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Naphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Nitrobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Pentachlorophenol	<810		810		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Phenanthrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Phenol	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1
Dinoseb	<400		400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:06	1

Client Sample ID: SB-12 0'-3'

Lab Sample ID: 400-105845-21

Date Collected: 05/19/15 09:50
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 81.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Phenol-d5 (Surr)	66		37 - 120	05/21/15 07:56	06/01/15 20:06	1
Terphenyl-d14 (Surr)	89		36 - 134	05/21/15 07:56	06/01/15 20:06	1
2,4,6-Tribromophenol (Surr)	69		32 - 133	05/21/15 07:56	06/01/15 20:06	1
2-Fluorobiphenyl	59		44 - 120	05/21/15 07:56	06/01/15 20:06	1
2-Fluorophenol (Surr)	57		25 - 120	05/21/15 07:56	06/01/15 20:06	1
Nitrobenzene-d5 (Surr)	54		27 - 120	05/21/15 07:56	06/01/15 20:06	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 02:04	1
PCB-1221	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 02:04	1
PCB-1232	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 02:04	1
PCB-1242	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 02:04	1
PCB-1248	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 02:04	1
PCB-1254	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 02:04	1
PCB-1260	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 02:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	92		30 - 150	05/22/15 08:02	05/27/15 02:04	1
Tetrachloro-m-xylene	84		43 - 142	05/22/15 08:02	05/27/15 02:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.58		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Aluminum	**8600**		12		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Arsenic	**4.5**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Beryllium	**0.60**		0.35		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Cadmium	<0.58		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Chromium	**16**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Copper	**27**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Nickel	**8.4**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Lead	**12**		0.58		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Antimony	<5.8		5.8		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Selenium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Thallium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1
Zinc	**61**		2.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	05/21/15 09:36	05/26/15 13:55	1

Client Sample ID: B-5 0'-4'

Lab Sample ID: 400-105845-22

Date Collected: 05/19/15 10:06
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 71.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
1,1,2,2-Tetrachloroethane	<7.1	*	7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
1,1,2-Trichloroethane	<7.1	*	7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
1,1-Dichloroethane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1

Client Sample ID: B-5 0'-4'
Date Collected: 05/19/15 10:06
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-22
Matrix: Solid
Percent Solids: 71.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
1,2-Dichlorobenzene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
1,2-Dichloroethane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
1,2-Dichloropropane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
1,3-Dichlorobenzene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
1,4-Dichlorobenzene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
2-Hexanone	<36		36		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Acetone	<36		36		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Benzene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Bromoform	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Bromomethane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Carbon disulfide	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Carbon tetrachloride	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Chlorobenzene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Chlorodibromomethane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Chloroethane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Chloroform	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Chloromethane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
cis-1,2-Dichloroethene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
cis-1,3-Dichloropropene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Dichlorobromomethane	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Ethylbenzene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
m-Xylene & p-Xylene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
2-Butanone (MEK)	<36	*	36		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
4-Methyl-2-pentanone (MIBK)	<36		36		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Methylene Chloride	<21		21		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
o-Xylene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Styrene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Tetrachloroethene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Toluene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
trans-1,2-Dichloroethene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
trans-1,3-Dichloropropene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Trichloroethene	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Vinyl chloride	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1
Xylenes, Total	<7.1		7.1		ug/Kg	☼	06/02/15 10:19	06/02/15 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 122*	*06/02/15 10:19*	*06/02/15 13:34*	*1*
Dibromofluoromethane	*108*		*79 - 123*	*06/02/15 10:19*	*06/02/15 13:34*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*06/02/15 10:19*	*06/02/15 13:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
1,4-Dichlorobenzene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
1-Methylnaphthalene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2,4,5-Trichlorophenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2,4,6-Trichlorophenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2,4-Dichlorophenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2,4-Dimethylphenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1

Client Sample ID: B-5 0'-4'
Date Collected: 05/19/15 10:06
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-22
Matrix: Solid
Percent Solids: 71.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<1400		1400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2-Chlorophenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2-Methylnaphthalene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2-Methylphenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2-Nitroaniline	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2-Nitrophenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
3 & 4 Methylphenol	<920		920		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
3,3'-Dichlorobenzidine	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
4,6-Dinitro-2-methylphenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
4-Bromophenyl phenyl ether	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
4-Chloro-3-methylphenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
4-Chloroaniline	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
4-Chlorophenyl phenyl ether	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
4-Nitroaniline	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
4-Nitrophenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Acenaphthene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Acenaphthylene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Anthracene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Benzidine	<1400		1400		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Benzo[a]anthracene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Benzo[a]pyrene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Benzo[b]fluoranthene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Benzo[g,h,i]perylene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Benzo[k]fluoranthene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Bis(2-chloroethoxy)methane	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Bis(2-chloroethyl)ether	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Bis(2-ethylhexyl) phthalate	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Butyl benzyl phthalate	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Carbazole	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Chrysene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Di-n-butyl phthalate	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Di-n-octyl phthalate	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Dibenz(a,h)anthracene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Dibenzofuran	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Diethyl phthalate	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Dimethyl phthalate	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Fluoranthene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Fluorene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Hexachlorobenzene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Hexachlorobutadiene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Hexachlorocyclopentadiene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Hexachloroethane	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Indeno[1,2,3-cd]pyrene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Isophorone	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
N-Nitrosodi-n-propylamine	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
N-Nitrosodimethylamine	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
N-Nitrosodiphenylamine	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Naphthalene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Nitrobenzene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1

Client Sample ID: B-5 0'-4'
Date Collected: 05/19/15 10:06
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-22
Matrix: Solid
Percent Solids: 71.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<920		920		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Phenanthrene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Phenol	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Pyrene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
1,2,4-Trichlorobenzene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
1,2-Dichlorobenzene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2,4-Dinitrotoluene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
2,6-Dinitrotoluene	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1
Dinoseb	<460		460		ug/Kg	☼	05/21/15 07:56	06/01/15 20:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*54*		*37 - 120*	*05/21/15 07:56*	*06/01/15 20:41*	*1*
Terphenyl-d14 (Surr)	*86*		*36 - 134*	*05/21/15 07:56*	*06/01/15 20:41*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*32 - 133*	*05/21/15 07:56*	*06/01/15 20:41*	*1*
2-Fluorobiphenyl	*57*		*44 - 120*	*05/21/15 07:56*	*06/01/15 20:41*	*1*
2-Fluorophenol (Surr)	*51*		*25 - 120*	*05/21/15 07:56*	*06/01/15 20:41*	*1*
Nitrobenzene-d5 (Surr)	*52*		*27 - 120*	*05/21/15 07:56*	*06/01/15 20:41*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<12		12		ug/Kg	☼	05/22/15 08:02	05/27/15 02:29	1
PCB-1221	<12		12		ug/Kg	☼	05/22/15 08:02	05/27/15 02:29	1
PCB-1232	<12		12		ug/Kg	☼	05/22/15 08:02	05/27/15 02:29	1
PCB-1242	<12		12		ug/Kg	☼	05/22/15 08:02	05/27/15 02:29	1
PCB-1248	<12		12		ug/Kg	☼	05/22/15 08:02	05/27/15 02:29	1
PCB-1254	<12		12		ug/Kg	☼	05/22/15 08:02	05/27/15 02:29	1
PCB-1260	<12		12		ug/Kg	☼	05/22/15 08:02	05/27/15 02:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*88*		*30 - 150*	*05/22/15 08:02*	*05/27/15 02:29*	*1*
Tetrachloro-m-xylene	*80*		*43 - 142*	*05/22/15 08:02*	*05/27/15 02:29*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.67		0.67		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Aluminum	**6900**		13		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Arsenic	**3.3**		0.67		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Beryllium	**0.44**		0.40		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Cadmium	<0.67		0.67		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Chromium	**13**		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Copper	**19**		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Nickel	**5.7**		0.67		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Lead	**13**		0.67		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Antimony	<6.7		6.7		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Selenium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Thallium	<1.3		1.3		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1
Zinc	**42**		2.7		mg/Kg	☼	05/21/15 11:41	05/23/15 15:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.022		mg/Kg	☼	05/21/15 09:36	05/26/15 13:56	1

Client Sample ID: TW-5
Date Collected: 05/19/15 11:23
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-23
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/31/15 22:01	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/31/15 22:01	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/31/15 22:01	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/31/15 22:01	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:01	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:01	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/31/15 22:01	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/31/15 22:01	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:01	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:01	1
2-Hexanone	<25		25		ug/L			05/31/15 22:01	1
Acetone	<25		25		ug/L			05/31/15 22:01	1
Benzene	<1.0		1.0		ug/L			05/31/15 22:01	1
Bromoform	<5.0		5.0		ug/L			05/31/15 22:01	1
Bromomethane	<1.0		1.0		ug/L			05/31/15 22:01	1
Carbon disulfide	<1.0		1.0		ug/L			05/31/15 22:01	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/31/15 22:01	1
Chlorobenzene	<1.0		1.0		ug/L			05/31/15 22:01	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/31/15 22:01	1
Chloroethane	<1.0		1.0		ug/L			05/31/15 22:01	1
Chloroform	<1.0		1.0		ug/L			05/31/15 22:01	1
Chloromethane	<1.0		1.0		ug/L			05/31/15 22:01	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:01	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 22:01	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/31/15 22:01	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/15 22:01	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/31/15 22:01	1
2-Butanone (MEK)	<25		25		ug/L			05/31/15 22:01	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/31/15 22:01	1
Methylene Chloride	<5.0		5.0		ug/L			05/31/15 22:01	1
o-Xylene	<5.0		5.0		ug/L			05/31/15 22:01	1
Styrene	<1.0		1.0		ug/L			05/31/15 22:01	1
Tetrachloroethene	<1.0		1.0		ug/L			05/31/15 22:01	1
Toluene	<1.0		1.0		ug/L			05/31/15 22:01	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:01	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 22:01	1
Trichloroethene	<1.0		1.0		ug/L			05/31/15 22:01	1
Vinyl chloride	<1.0		1.0		ug/L			05/31/15 22:01	1
Xylenes, Total	<5.0		5.0		ug/L			05/31/15 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*05/31/15 22:01*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*05/31/15 22:01*	*1*
Toluene-d8 (Surr)	*102*		*80 - 120*		*05/31/15 22:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:00	1
1,4-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:00	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1

Client Sample ID: TW-5
Date Collected: 05/19/15 11:23
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-23
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2,4-Dimethylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/29/15 19:31	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2-Methylnaphthalene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2-Methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
3 & 4 Methylphenol	<21	*	21		ug/L		05/22/15 12:59	05/29/15 19:31	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
4-Bromophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
4-Chloro-3-methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
4-Chlorophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Acenaphthylene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Benzidine	<26	*	26		ug/L		05/22/15 12:59	05/29/15 19:31	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Benzo[b]fluoranthene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Dibenzofuran	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Hexachlorobenzene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Hexachlorobutadiene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:00	1
Hexachlorocyclopentadiene	<21	*	21		ug/L		05/22/15 12:59	05/29/15 19:31	1
Hexachloroethane	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:00	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1

Client Sample ID: TW-5
Date Collected: 05/19/15 11:23
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-23
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/29/15 19:31	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Phenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
1,2,4-Trichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:00	1
1,2-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:00	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/29/15 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*71*		*10 - 120*	*05/22/15 12:59*	*05/29/15 19:31*	*1*
Phenol-d5 (Surr)	*49*		*10 - 120*	*05/29/15 11:19*	*06/01/15 18:00*	*1*
Terphenyl-d14 (Surr)	*89*		*53 - 125*	*05/22/15 12:59*	*05/29/15 19:31*	*1*
Terphenyl-d14 (Surr)	*69*		*53 - 125*	*05/29/15 11:19*	*06/01/15 18:00*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*15 - 135*	*05/22/15 12:59*	*05/29/15 19:31*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*15 - 135*	*05/29/15 11:19*	*06/01/15 18:00*	*1*
2-Fluorobiphenyl	*87*		*34 - 120*	*05/22/15 12:59*	*05/29/15 19:31*	*1*
2-Fluorobiphenyl	*73*		*34 - 120*	*05/29/15 11:19*	*06/01/15 18:00*	*1*
2-Fluorophenol (Surr)	*65*		*10 - 120*	*05/22/15 12:59*	*05/29/15 19:31*	*1*
2-Fluorophenol (Surr)	*46*		*10 - 120*	*05/29/15 11:19*	*06/01/15 18:00*	*1*
Nitrobenzene-d5 (Surr)	*94*		*27 - 120*	*05/22/15 12:59*	*05/29/15 19:31*	*1*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*	*05/29/15 11:19*	*06/01/15 18:00*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 11:17	05/29/15 15:43	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 11:17	05/29/15 15:43	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 11:17	05/29/15 15:43	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 11:17	05/29/15 15:43	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 11:17	05/29/15 15:43	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 11:17	05/29/15 15:43	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 11:17	05/29/15 15:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*33*		*10 - 125*	*05/22/15 11:17*	*05/29/15 15:43*	*1*
Tetrachloro-m-xylene	*59*		*46 - 150*	*05/22/15 11:17*	*05/29/15 15:43*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/21/15 10:05	05/21/15 18:05	1
Arsenic	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:05	1
Beryllium	<0.0030		0.0030		mg/L		05/21/15 10:05	05/21/15 18:05	1
Cadmium	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:05	1
Chromium	**0.014**		0.010		mg/L		05/21/15 10:05	05/21/15 18:05	1
Copper	**0.28**		0.010		mg/L		05/21/15 10:05	05/21/15 18:05	1

Client Sample ID: TW-5

Lab Sample ID: 400-105845-23

Date Collected: 05/19/15 11:23

Matrix: Water

Date Received: 05/20/15 09:00

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.018**		0.0050		mg/L		05/21/15 10:05	05/21/15 18:05	1
Nickel	**0.055**		0.0050		mg/L		05/21/15 10:05	05/21/15 18:05	1
Selenium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:05	1
Silver	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:05	1
Thallium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:05	1
Zinc	**1.0**		0.020		mg/L		05/21/15 10:05	05/21/15 18:05	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/15 10:49	05/26/15 10:15	1

Client Sample ID: SB-13 0'-4'

Lab Sample ID: 400-105845-24

Date Collected: 05/19/15 10:45

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 54.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,1,2,2-Tetrachloroethane	<8.8	*	8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,1,2-Trichloroethane	<8.8	*	8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,1-Dichloroethane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,1-Dichloroethene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,2-Dichlorobenzene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,2-Dichloroethane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,2-Dichloropropane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,3-Dichlorobenzene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
1,4-Dichlorobenzene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
2-Hexanone	<44		44		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Acetone	**86**		44		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Benzene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Bromoform	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Bromomethane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Carbon disulfide	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Carbon tetrachloride	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Chlorobenzene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Chlorodibromomethane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Chloroethane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Chloroform	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Chloromethane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
cis-1,2-Dichloroethene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
cis-1,3-Dichloropropene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Dichlorobromomethane	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Ethylbenzene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
m-Xylene & p-Xylene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
2-Butanone (MEK)	<44	*	44		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
4-Methyl-2-pentanone (MIBK)	<44		44		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Methylene Chloride	<26		26		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
o-Xylene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Styrene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Tetrachloroethene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1

Client Sample ID: SB-13 0'-4'
Date Collected: 05/19/15 10:45
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-24
Matrix: Solid
Percent Solids: 54.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
trans-1,2-Dichloroethene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
trans-1,3-Dichloropropene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Trichloroethene	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Vinyl chloride	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1
Xylenes, Total	<8.8		8.8		ug/Kg	☼	06/02/15 10:19	06/02/15 11:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*06/02/15 10:19*	*06/02/15 11:47*	*1*
Dibromofluoromethane	*110*		*79 - 123*	*06/02/15 10:19*	*06/02/15 11:47*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*06/02/15 10:19*	*06/02/15 11:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
1,4-Dichlorobenzene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
1-Methylnaphthalene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2,4,5-Trichlorophenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2,4,6-Trichlorophenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2,4-Dichlorophenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2,4-Dimethylphenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2,4-Dinitrophenol	<1800		1800		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2-Chlorophenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2-Methylnaphthalene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2-Methylphenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2-Nitroaniline	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2-Nitrophenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
3 & 4 Methylphenol	<1200		1200		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
3,3'-Dichlorobenzidine	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
4,6-Dinitro-2-methylphenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
4-Bromophenyl phenyl ether	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
4-Chloro-3-methylphenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
4-Chloroaniline	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
4-Chlorophenyl phenyl ether	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
4-Nitroaniline	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
4-Nitrophenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Acenaphthene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Acenaphthylene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Anthracene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Benzidine	<1800		1800		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Benzo[a]anthracene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Benzo[a]pyrene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Benzo[b]fluoranthene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Benzo[g,h,i]perylene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Benzo[k]fluoranthene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Bis(2-chloroethoxy)methane	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Bis(2-chloroethyl)ether	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Bis(2-ethylhexyl) phthalate	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Butyl benzyl phthalate	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Carbazole	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1

Client Sample ID: SB-13 0'-4'
Date Collected: 05/19/15 10:45
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-24
Matrix: Solid
Percent Solids: 54.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Di-n-butyl phthalate	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Di-n-octyl phthalate	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Dibenz(a,h)anthracene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Dibenzofuran	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Diethyl phthalate	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Dimethyl phthalate	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Fluoranthene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Fluorene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Hexachlorobenzene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Hexachlorobutadiene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Hexachlorocyclopentadiene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Hexachloroethane	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Indeno[1,2,3-cd]pyrene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Isophorone	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
N-Nitrosodi-n-propylamine	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
N-Nitrosodimethylamine	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
N-Nitrosodiphenylamine	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Naphthalene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Nitrobenzene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Pentachlorophenol	<1200		1200		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Phenanthrene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Phenol	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Pyrene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
1,2,4-Trichlorobenzene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
1,2-Dichlorobenzene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2,4-Dinitrotoluene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
2,6-Dinitrotoluene	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1
Dinoseb	<600		600		ug/Kg	☼	05/21/15 07:56	06/01/15 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*66*		*37 - 120*	*05/21/15 07:56*	*06/01/15 21:17*	*1*
Terphenyl-d14 (Surr)	*106*		*36 - 134*	*05/21/15 07:56*	*06/01/15 21:17*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*32 - 133*	*05/21/15 07:56*	*06/01/15 21:17*	*1*
2-Fluorobiphenyl	*67*		*44 - 120*	*05/21/15 07:56*	*06/01/15 21:17*	*1*
2-Fluorophenol (Surr)	*54*		*25 - 120*	*05/21/15 07:56*	*06/01/15 21:17*	*1*
Nitrobenzene-d5 (Surr)	*51*		*27 - 120*	*05/21/15 07:56*	*06/01/15 21:17*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<16		16		ug/Kg	☼	05/22/15 08:02	05/27/15 02:54	1
PCB-1221	<16		16		ug/Kg	☼	05/22/15 08:02	05/27/15 02:54	1
PCB-1232	<16		16		ug/Kg	☼	05/22/15 08:02	05/27/15 02:54	1
PCB-1242	<16		16		ug/Kg	☼	05/22/15 08:02	05/27/15 02:54	1
PCB-1248	<16		16		ug/Kg	☼	05/22/15 08:02	05/27/15 02:54	1
PCB-1254	<16		16		ug/Kg	☼	05/22/15 08:02	05/27/15 02:54	1
PCB-1260	<16		16		ug/Kg	☼	05/22/15 08:02	05/27/15 02:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*30 - 150*	*05/22/15 08:02*	*05/27/15 02:54*	*1*

Client Sample ID: SB-13 0'-4'

Lab Sample ID: 400-105845-24

Date Collected: 05/19/15 10:45

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 54.8

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*61*		*43 - 142*	*05/22/15 08:02*	*05/27/15 02:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.85		0.85		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Aluminum	**17000**		17		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Arsenic	**5.3**		0.85		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Beryllium	**1.1**		0.51		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Cadmium	<0.85		0.85		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Chromium	**25**		1.7		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Copper	**69**		1.7		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Nickel	**14**		0.85		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Lead	**17**		0.85		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Antimony	<8.5		8.5		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Selenium	<1.7		1.7		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Thallium	<1.7		1.7		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1
Zinc	**130**		3.4		mg/Kg	☼	05/21/15 11:41	05/23/15 13:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.028		mg/Kg	☼	05/21/15 09:36	05/26/15 13:57	1

Client Sample ID: B-6 0'-4'

Lab Sample ID: 400-105845-25

Date Collected: 05/19/15 10:54

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,1,2,2-Tetrachloroethane	<5.8	*	5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,1,2-Trichloroethane	<5.8	*	5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,1-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,1-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,2-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,2-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,2-Dichloropropane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,3-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
1,4-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
2-Hexanone	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Acetone	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Benzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Bromoform	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Bromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Carbon disulfide	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Carbon tetrachloride	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Chlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Chlorodibromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Chloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Chloroform	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Chloromethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1

Client Sample ID: B-6 0'-4'
Date Collected: 05/19/15 10:54
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-25
Matrix: Solid
Percent Solids: 81.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
cis-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Dichlorobromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Ethylbenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
m-Xylene & p-Xylene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
2-Butanone (MEK)	<29	*	29		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Methylene Chloride	<17		17		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
o-Xylene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Styrene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Tetrachloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Toluene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
trans-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
trans-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Trichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Vinyl chloride	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1
Xylenes, Total	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 12:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 122*	*06/02/15 10:19*	*06/02/15 12:14*	*1*
Dibromofluoromethane	*106*		*79 - 123*	*06/02/15 10:19*	*06/02/15 12:14*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*06/02/15 10:19*	*06/02/15 12:14*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2-Methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
3 & 4 Methylphenol	<800		800		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Acenaphthene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Acenaphthylene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: B-6 0'-4'
Date Collected: 05/19/15 10:54
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-25
Matrix: Solid
Percent Solids: 81.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	<1200	F2 F1	1200		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Carbazole	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Chrysene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Dibenzofuran	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Diethyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Fluoranthene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Fluorene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Hexachloroethane	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Isophorone	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Naphthalene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Nitrobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Pentachlorophenol	<800		800		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Phenanthrene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Phenol	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Pyrene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1
Dinoseb	<400		400		ug/Kg	☼	05/21/15 07:56	05/29/15 19:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*79*		*37 - 120*	*05/21/15 07:56*	*05/29/15 19:23*	*1*
Terphenyl-d14 (Surr)	*81*		*36 - 134*	*05/21/15 07:56*	*05/29/15 19:23*	*1*
2,4,6-Tribromophenol (Surr)	*77*		*32 - 133*	*05/21/15 07:56*	*05/29/15 19:23*	*1*
2-Fluorobiphenyl	*81*		*44 - 120*	*05/21/15 07:56*	*05/29/15 19:23*	*1*
2-Fluorophenol (Surr)	*69*		*25 - 120*	*05/21/15 07:56*	*05/29/15 19:23*	*1*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*	*05/21/15 07:56*	*05/29/15 19:23*	*1*

Client Sample ID: B-6 0'-4'

Date Collected: 05/19/15 10:54
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-25

Matrix: Solid
Percent Solids: 81.3

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 03:19	1
PCB-1221	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 03:19	1
PCB-1232	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 03:19	1
PCB-1242	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 03:19	1
PCB-1248	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 03:19	1
PCB-1254	<10		10		ug/Kg	☼	05/22/15 08:02	05/27/15 03:19	1
PCB-1260	**17**		10		ug/Kg	☼	05/22/15 08:02	05/27/15 03:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*78*		*30 - 150*	*05/22/15 08:02*	*05/27/15 03:19*	*1*
Tetrachloro-m-xylene	*66*		*43 - 142*	*05/22/15 08:02*	*05/27/15 03:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.60		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Aluminum	**1300**		12		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Arsenic	**0.95**		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Cadmium	<0.60		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Chromium	**4.1**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Copper	**7.4**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Nickel	**1.6**		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Lead	**29**		0.60		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Antimony	<6.0		6.0		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Selenium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Thallium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1
Zinc	**43**		2.4		mg/Kg	☼	05/21/15 11:41	05/23/15 13:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.031**		0.018		mg/Kg	☼	05/21/15 09:36	05/26/15 13:59	1

Client Sample ID: TW-6

Date Collected: 05/19/15 13:55
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-26

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/31/15 22:27	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/31/15 22:27	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/31/15 22:27	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/31/15 22:27	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:27	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:27	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/31/15 22:27	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/31/15 22:27	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:27	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:27	1
2-Hexanone	<25		25		ug/L			05/31/15 22:27	1
Acetone	<25		25		ug/L			05/31/15 22:27	1

Client Sample ID: TW-6
Date Collected: 05/19/15 13:55
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-26
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			05/31/15 22:27	1
Bromoform	<5.0		5.0		ug/L			05/31/15 22:27	1
Bromomethane	<1.0		1.0		ug/L			05/31/15 22:27	1
Carbon disulfide	<1.0		1.0		ug/L			05/31/15 22:27	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/31/15 22:27	1
Chlorobenzene	<1.0		1.0		ug/L			05/31/15 22:27	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/31/15 22:27	1
Chloroethane	<1.0		1.0		ug/L			05/31/15 22:27	1
Chloroform	<1.0		1.0		ug/L			05/31/15 22:27	1
Chloromethane	<1.0		1.0		ug/L			05/31/15 22:27	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:27	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 22:27	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/31/15 22:27	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/15 22:27	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/31/15 22:27	1
2-Butanone (MEK)	<25		25		ug/L			05/31/15 22:27	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/31/15 22:27	1
Methylene Chloride	<5.0		5.0		ug/L			05/31/15 22:27	1
o-Xylene	<5.0		5.0		ug/L			05/31/15 22:27	1
Styrene	<1.0		1.0		ug/L			05/31/15 22:27	1
Tetrachloroethene	<1.0		1.0		ug/L			05/31/15 22:27	1
Toluene	<1.0		1.0		ug/L			05/31/15 22:27	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:27	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 22:27	1
Trichloroethene	<1.0		1.0		ug/L			05/31/15 22:27	1
Vinyl chloride	<1.0		1.0		ug/L			05/31/15 22:27	1
Xylenes, Total	<5.0		5.0		ug/L			05/31/15 22:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*05/31/15 22:27*	*1*
Dibromofluoromethane	*101*		*81 - 121*		*05/31/15 22:27*	*1*
Toluene-d8 (Surr)	*103*		*80 - 120*		*05/31/15 22:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:38	1
1,4-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:38	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2,4-Dimethylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/29/15 20:07	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2-Methylnaphthalene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2-Methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
3 & 4 Methylphenol	<21	*	21		ug/L		05/22/15 12:59	05/29/15 20:07	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1

Client Sample ID: TW-6
Date Collected: 05/19/15 13:55
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-26
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
4-Bromophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
4-Chloro-3-methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
4-Chlorophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Acenaphthylene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Benzidine	<26	*	26		ug/L		05/22/15 12:59	05/29/15 20:07	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Benzo[b]fluoranthene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Dibenzofuran	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Hexachlorobenzene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Hexachlorobutadiene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:38	1
Hexachlorocyclopentadiene	<21	*	21		ug/L		05/22/15 12:59	05/29/15 20:07	1
Hexachloroethane	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:38	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/29/15 20:07	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Phenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:07	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
1,2,4-Trichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:38	1
1,2-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 18:38	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: TW-6
Date Collected: 05/19/15 13:55
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-26
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/29/15 20:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*72*		*10 - 120*	*05/22/15 12:59*	*05/29/15 20:07*	*1*
Phenol-d5 (Surr)	*68*		*10 - 120*	*05/29/15 11:19*	*06/01/15 18:38*	*1*
Terphenyl-d14 (Surr)	*67*		*53 - 125*	*05/22/15 12:59*	*05/29/15 20:07*	*1*
Terphenyl-d14 (Surr)	*97*		*53 - 125*	*05/29/15 11:19*	*06/01/15 18:38*	*1*
2,4,6-Tribromophenol (Surr)	*92*		*15 - 135*	*05/22/15 12:59*	*05/29/15 20:07*	*1*
2,4,6-Tribromophenol (Surr)	*98*		*15 - 135*	*05/29/15 11:19*	*06/01/15 18:38*	*1*
2-Fluorobiphenyl	*82*		*34 - 120*	*05/22/15 12:59*	*05/29/15 20:07*	*1*
2-Fluorobiphenyl	*76*		*34 - 120*	*05/29/15 11:19*	*06/01/15 18:38*	*1*
2-Fluorophenol (Surr)	*58*		*10 - 120*	*05/22/15 12:59*	*05/29/15 20:07*	*1*
2-Fluorophenol (Surr)	*51*		*10 - 120*	*05/29/15 11:19*	*06/01/15 18:38*	*1*
Nitrobenzene-d5 (Surr)	*78*		*27 - 120*	*05/22/15 12:59*	*05/29/15 20:07*	*1*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*	*05/29/15 11:19*	*06/01/15 18:38*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:09	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:09	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:09	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:09	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:09	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:09	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*24*		*10 - 125*	*05/22/15 08:24*	*05/29/15 16:09*	*1*
Tetrachloro-m-xylene	*65*		*46 - 150*	*05/22/15 08:24*	*05/29/15 16:09*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/21/15 10:05	05/21/15 18:08	1
Arsenic	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:08	1
Beryllium	<0.0030		0.0030		mg/L		05/21/15 10:05	05/21/15 18:08	1
Cadmium	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:08	1
Chromium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:08	1
Copper	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:08	1
Lead	**0.0055**		0.0050		mg/L		05/21/15 10:05	05/21/15 18:08	1
Nickel	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:08	1
Selenium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:08	1
Silver	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:08	1
Thallium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:08	1
Zinc	<0.020		0.020		mg/L		05/21/15 10:05	05/21/15 18:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/15 12:12	05/26/15 10:17	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-14 0'-4'
Date Collected: 05/19/15 12:16
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-27
Matrix: Solid
Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,1,2,2-Tetrachloroethane	<5.7	*	5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,1,2-Trichloroethane	<5.7	*	5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,1-Dichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,1-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,2-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,2-Dichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,2-Dichloropropane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,3-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
1,4-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
2-Hexanone	<28		28		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Acetone	<28		28		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Benzene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Bromoform	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Bromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Carbon disulfide	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Carbon tetrachloride	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Chlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Chlorodibromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Chloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Chloroform	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Chloromethane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
cis-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
cis-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Dichlorobromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Ethylbenzene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
m-Xylene & p-Xylene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
2-Butanone (MEK)	<28	*	28		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Methylene Chloride	<17		17		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
o-Xylene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Styrene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Tetrachloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Toluene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
trans-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
trans-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Trichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Vinyl chloride	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1
Xylenes, Total	<5.7		5.7		ug/Kg	☼	06/02/15 10:19	06/02/15 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/02/15 10:19*	*06/02/15 12:41*	*1*
Dibromofluoromethane	*108*		*79 - 123*	*06/02/15 10:19*	*06/02/15 12:41*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*06/02/15 10:19*	*06/02/15 12:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
1,4-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-14 0'-4'
Date Collected: 05/19/15 12:16
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-27
Matrix: Solid
Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2-Chlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2-Methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
3 & 4 Methylphenol	<740		740		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
4-Chloroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
4-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
4-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Acenaphthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Acenaphthylene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Carbazole	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Chrysene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Dibenzofuran	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Diethyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Dimethyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Fluorene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Hexachlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Hexachloroethane	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Isophorone	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1

Client Sample ID: SB-14 0'-4'
Date Collected: 05/19/15 12:16
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-27
Matrix: Solid
Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Naphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Nitrobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Pentachlorophenol	<740		740		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Phenanthrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Phenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
1,2-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1
Dinoseb	<370		370		ug/Kg	☼	05/21/15 08:04	05/27/15 21:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*74*		*37 - 120*	*05/21/15 08:04*	*05/27/15 21:54*	*1*
Terphenyl-d14 (Surr)	*103*		*36 - 134*	*05/21/15 08:04*	*05/27/15 21:54*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*32 - 133*	*05/21/15 08:04*	*05/27/15 21:54*	*1*
2-Fluorobiphenyl	*75*		*44 - 120*	*05/21/15 08:04*	*05/27/15 21:54*	*1*
2-Fluorophenol (Surr)	*62*		*25 - 120*	*05/21/15 08:04*	*05/27/15 21:54*	*1*
Nitrobenzene-d5 (Surr)	*67*		*27 - 120*	*05/21/15 08:04*	*05/27/15 21:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.5		9.5		ug/Kg	☼	05/22/15 08:08	05/27/15 06:14	1
PCB-1221	<9.5		9.5		ug/Kg	☼	05/22/15 08:08	05/27/15 06:14	1
PCB-1232	<9.5		9.5		ug/Kg	☼	05/22/15 08:08	05/27/15 06:14	1
PCB-1242	<9.5		9.5		ug/Kg	☼	05/22/15 08:08	05/27/15 06:14	1
PCB-1248	<9.5		9.5		ug/Kg	☼	05/22/15 08:08	05/27/15 06:14	1
PCB-1254	<9.5		9.5		ug/Kg	☼	05/22/15 08:08	05/27/15 06:14	1
PCB-1260	<9.5		9.5		ug/Kg	☼	05/22/15 08:08	05/27/15 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*107*		*30 - 150*	*05/22/15 08:08*	*05/27/15 06:14*	*1*
Tetrachloro-m-xylene	*98*		*43 - 142*	*05/22/15 08:08*	*05/27/15 06:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.54		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Aluminum	**1200**		11		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Arsenic	**0.91**		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Beryllium	<0.32		0.32		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Cadmium	<0.54		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Chromium	**5.3**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Copper	**1.4**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Nickel	<0.54		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Lead	**2.4**		0.54		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Antimony	<5.4		5.4		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Selenium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1
Thallium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1

Client Sample ID: SB-14 0'-4'

Lab Sample ID: 400-105845-27
Date Collected: 05/19/15 12:16
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 88.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	2.5		2.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:47	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	05/21/15 09:12	05/26/15 12:38	1

Client Sample ID: SB-15 0'-4'

Lab Sample ID: 400-105845-28
Date Collected: 05/19/15 12:24
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 80.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,1,2,2-Tetrachloroethane	<6.0	*	6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,1,2-Trichloroethane	<6.0	*	6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
2-Hexanone	<30		30		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Acetone	<30		30		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Benzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Bromoform	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Bromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Chloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Chloroform	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Chloromethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
m-Xylene & p-Xylene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
2-Butanone (MEK)	<30	*	30		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
o-Xylene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Styrene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Tetrachloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Toluene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Trichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1
Vinyl chloride	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1

Client Sample ID: SB-15 0'-4'
Date Collected: 05/19/15 12:24
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-28
Matrix: Solid
Percent Solids: 80.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<6.0		6.0		ug/Kg	☼	06/02/15 10:19	06/02/15 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 122*	*06/02/15 10:19*	*06/02/15 14:01*	*1*
Dibromofluoromethane	*107*		*79 - 123*	*06/02/15 10:19*	*06/02/15 14:01*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*06/02/15 10:19*	*06/02/15 14:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
1,4-Dichlorobenzene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
1-Methylnaphthalene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2,4-Dichlorophenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2,4-Dimethylphenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2-Chlorophenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2-Methylnaphthalene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2-Methylphenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2-Nitroaniline	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2-Nitrophenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
3 & 4 Methylphenol	<820		820		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
3,3'-Dichlorobenzidine	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
4,6-Dinitro-2-methylphenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
4-Chloroaniline	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
4-Nitroaniline	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
4-Nitrophenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Acenaphthene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Acenaphthylene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Anthracene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Benzidine	<1200		1200		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Benzo[a]anthracene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Benzo[a]pyrene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Benzo[b]fluoranthene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Benzo[g,h,i]perylene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Bis(2-ethylhexyl) phthalate	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Butyl benzyl phthalate	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Carbazole	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Chrysene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Di-n-butyl phthalate	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Di-n-octyl phthalate	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Dibenzofuran	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1

Client Sample ID: SB-15 0'-4'
Date Collected: 05/19/15 12:24
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-28
Matrix: Solid
Percent Solids: 80.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Dimethyl phthalate	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Fluoranthene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Fluorene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Hexachlorobenzene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Hexachlorobutadiene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Hexachloroethane	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Indeno[1,2,3-cd]pyrene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Isophorone	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
N-Nitrosodimethylamine	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Naphthalene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Nitrobenzene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Pentachlorophenol	<820		820		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Phenanthrene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Phenol	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Pyrene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
1,2,4-Trichlorobenzene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
1,2-Dichlorobenzene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1
Dinoseb	<410		410		ug/Kg	☼	05/21/15 08:04	05/29/15 11:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*88*		*37 - 120*	*05/21/15 08:04*	*05/29/15 11:43*	*1*
Terphenyl-d14 (Surr)	*101*		*36 - 134*	*05/21/15 08:04*	*05/29/15 11:43*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*32 - 133*	*05/21/15 08:04*	*05/29/15 11:43*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*05/21/15 08:04*	*05/29/15 11:43*	*1*
2-Fluorophenol (Surr)	*78*		*25 - 120*	*05/21/15 08:04*	*05/29/15 11:43*	*1*
Nitrobenzene-d5 (Surr)	*79*		*27 - 120*	*05/21/15 08:04*	*05/29/15 11:43*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 06:39	1
PCB-1221	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 06:39	1
PCB-1232	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 06:39	1
PCB-1242	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 06:39	1
PCB-1248	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 06:39	1
PCB-1254	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 06:39	1
PCB-1260	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 06:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*30 - 150*	*05/22/15 08:08*	*05/27/15 06:39*	*1*
Tetrachloro-m-xylene	*77*		*43 - 142*	*05/22/15 08:08*	*05/27/15 06:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.57		0.57		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1

Client Sample ID: SB-15 0'-4'

Lab Sample ID: 400-105845-28

Date Collected: 05/19/15 12:24
Date Received: 05/20/15 09:00

Matrix: Solid
Percent Solids: 80.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**2700**		11		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Arsenic	**1.3**		0.57		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Beryllium	<0.34		0.34		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Cadmium	<0.57		0.57		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Chromium	**6.9**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Copper	**3.4**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Nickel	**0.99**		0.57		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Lead	**5.6**		0.57		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Antimony	<5.7		5.7		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Selenium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Thallium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1
Zinc	**6.3**		2.3		mg/Kg	☼	05/21/15 11:41	05/23/15 13:50	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.020**		0.019		mg/Kg	☼	05/21/15 09:12	05/26/15 12:40	1

Client Sample ID: SB-16 0'-4'

Lab Sample ID: 400-105845-29

Date Collected: 05/19/15 12:54
Date Received: 05/20/15 09:00

Matrix: Solid
Percent Solids: 88.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,1,2,2-Tetrachloroethane	<5.8	*	5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,1,2-Trichloroethane	<5.8	*	5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,1-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,1-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,2-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,2-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,2-Dichloropropane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,3-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
1,4-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
2-Hexanone	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Acetone	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Benzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Bromoform	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Bromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Carbon disulfide	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Carbon tetrachloride	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Chlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Chlorodibromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Chloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Chloroform	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Chloromethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
cis-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
cis-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Dichlorobromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Ethylbenzene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
m-Xylene & p-Xylene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1

Client Sample ID: SB-16 0'-4'
Date Collected: 05/19/15 12:54
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-29
Matrix: Solid
Percent Solids: 88.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<29	*	29		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
o-Xylene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Styrene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Tetrachloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Toluene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
trans-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
trans-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Trichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Vinyl chloride	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1
Xylenes, Total	<5.8		5.8		ug/Kg	☼	06/02/15 10:19	06/02/15 18:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*06/02/15 10:19*	*06/02/15 18:40*	*1*
Dibromofluoromethane	*107*		*79 - 123*	*06/02/15 10:19*	*06/02/15 18:40*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*06/02/15 10:19*	*06/02/15 18:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
1,4-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2-Chlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2-Methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
3 & 4 Methylphenol	<740		740		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
4-Chloroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
4-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
4-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Acenaphthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Acenaphthylene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1

Client Sample ID: SB-16 0'-4'
Date Collected: 05/19/15 12:54
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-29
Matrix: Solid
Percent Solids: 88.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Carbazole	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Chrysene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Dibenzofuran	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Diethyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Dimethyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Fluorene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Hexachlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Hexachloroethane	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Isophorone	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Naphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Nitrobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Pentachlorophenol	<740		740		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Phenanthrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Phenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
1,2-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1
Dinoseb	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*75*		*37 - 120*	*05/21/15 08:04*	*05/29/15 12:19*	*1*
Terphenyl-d14 (Surr)	*87*		*36 - 134*	*05/21/15 08:04*	*05/29/15 12:19*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*32 - 133*	*05/21/15 08:04*	*05/29/15 12:19*	*1*
2-Fluorobiphenyl	*75*		*44 - 120*	*05/21/15 08:04*	*05/29/15 12:19*	*1*
2-Fluorophenol (Surr)	*66*		*25 - 120*	*05/21/15 08:04*	*05/29/15 12:19*	*1*
Nitrobenzene-d5 (Surr)	*68*		*27 - 120*	*05/21/15 08:04*	*05/29/15 12:19*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:04	1
PCB-1221	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:04	1
PCB-1232	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:04	1
PCB-1242	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:04	1

Client Sample ID: SB-16 0'-4'

Lab Sample ID: 400-105845-29
Date Collected: 05/19/15 12:54
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 88.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:04	1
PCB-1254	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:04	1
PCB-1260	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*112*		*30 - 150*	*05/22/15 08:08*	*05/27/15 07:04*	*1*
Tetrachloro-m-xylene	*87*		*43 - 142*	*05/22/15 08:08*	*05/27/15 07:04*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.53		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Aluminum	**4700**		11		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Arsenic	**1.9**		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Beryllium	<0.32		0.32		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Cadmium	<0.53		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Chromium	**8.2**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Copper	**2.4**		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Nickel	**1.1**		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Lead	**3.9**		0.53		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Antimony	<5.3		5.3		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Selenium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Thallium	<1.1		1.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1
Zinc	**3.0**		2.1		mg/Kg	☼	05/21/15 11:41	05/23/15 13:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:12	05/26/15 12:41	1

Client Sample ID: SB-17 0'-5'

Lab Sample ID: 400-105845-30
Date Collected: 05/19/15 13:05
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 75.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,1,2,2-Tetrachloroethane	<6.6	*	6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,1,2-Trichloroethane	<6.6	*	6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,1-Dichloroethane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,1-Dichloroethene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,2-Dichlorobenzene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,2-Dichloroethane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,2-Dichloropropane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,3-Dichlorobenzene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
1,4-Dichlorobenzene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
2-Hexanone	<33		33		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Acetone	<33		33		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Benzene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Bromoform	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Bromomethane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Carbon disulfide	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1

Client Sample ID: SB-17 0'-5'
Date Collected: 05/19/15 13:05
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-30
Matrix: Solid
Percent Solids: 75.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Chlorobenzene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Chlorodibromomethane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Chloroethane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Chloroform	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Chloromethane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
cis-1,2-Dichloroethene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
cis-1,3-Dichloropropene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Dichlorobromomethane	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Ethylbenzene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
m-Xylene & p-Xylene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
2-Butanone (MEK)	<33	*	33		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
4-Methyl-2-pentanone (MIBK)	<33		33		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Methylene Chloride	<20		20		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
o-Xylene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Styrene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Tetrachloroethene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Toluene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
trans-1,2-Dichloroethene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
trans-1,3-Dichloropropene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Trichloroethene	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Vinyl chloride	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1
Xylenes, Total	<6.6		6.6		ug/Kg	☼	06/02/15 10:19	06/02/15 19:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 122*	*06/02/15 10:19*	*06/02/15 19:06*	*1*
Dibromofluoromethane	*109*		*79 - 123*	*06/02/15 10:19*	*06/02/15 19:06*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*06/02/15 10:19*	*06/02/15 19:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
1,4-Dichlorobenzene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
1-Methylnaphthalene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2,4,5-Trichlorophenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2,4,6-Trichlorophenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2,4-Dichlorophenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2,4-Dimethylphenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2-Chlorophenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2-Methylnaphthalene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2-Methylphenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2-Nitroaniline	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2-Nitrophenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
3 & 4 Methylphenol	<860		860		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
3,3'-Dichlorobenzidine	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
4,6-Dinitro-2-methylphenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
4-Bromophenyl phenyl ether	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
4-Chloro-3-methylphenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
4-Chloroaniline	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1

Client Sample ID: SB-17 0'-5'
Date Collected: 05/19/15 13:05
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-30
Matrix: Solid
Percent Solids: 75.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
4-Nitroaniline	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
4-Nitrophenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Acenaphthene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Acenaphthylene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Anthracene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Benzidine	<1300		1300		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Benzo[a]anthracene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Benzo[a]pyrene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Benzo[b]fluoranthene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Benzo[g,h,i]perylene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Benzo[k]fluoranthene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Bis(2-chloroethoxy)methane	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Bis(2-chloroethyl)ether	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Bis(2-ethylhexyl) phthalate	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Butyl benzyl phthalate	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Carbazole	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Chrysene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Di-n-butyl phthalate	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Di-n-octyl phthalate	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Dibenz(a,h)anthracene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Dibenzofuran	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Diethyl phthalate	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Dimethyl phthalate	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Fluoranthene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Fluorene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Hexachlorobenzene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Hexachlorobutadiene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Hexachlorocyclopentadiene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Hexachloroethane	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Indeno[1,2,3-cd]pyrene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Isophorone	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
N-Nitrosodi-n-propylamine	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
N-Nitrosodimethylamine	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
N-Nitrosodiphenylamine	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Naphthalene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Nitrobenzene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Pentachlorophenol	<860		860		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Phenanthrene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Phenol	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Pyrene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
1,2,4-Trichlorobenzene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
1,2-Dichlorobenzene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2,4-Dinitrotoluene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
2,6-Dinitrotoluene	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1
Dinoseb	<430		430		ug/Kg	☼	05/21/15 08:04	05/29/15 12:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*61*		*37 - 120*	*05/21/15 08:04*	*05/29/15 12:55*	*1*
Terphenyl-d14 (Surr)	*75*		*36 - 134*	*05/21/15 08:04*	*05/29/15 12:55*	*1*

Client Sample ID: SB-17 0'-5'

Lab Sample ID: 400-105845-30
Date Collected: 05/19/15 13:05
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 75.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*32 - 133*	*05/21/15 08:04*	*05/29/15 12:55*	*1*
2-Fluorobiphenyl	*60*		*44 - 120*	*05/21/15 08:04*	*05/29/15 12:55*	*1*
2-Fluorophenol (Surr)	*54*		*25 - 120*	*05/21/15 08:04*	*05/29/15 12:55*	*1*
Nitrobenzene-d5 (Surr)	*54*		*27 - 120*	*05/21/15 08:04*	*05/29/15 12:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 07:30	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 07:30	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 07:30	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 07:30	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 07:30	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 07:30	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 07:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*82*		*30 - 150*	*05/22/15 08:08*	*05/27/15 07:30*	*1*
Tetrachloro-m-xylene	*70*		*43 - 142*	*05/22/15 08:08*	*05/27/15 07:30*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.62		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Aluminum	**5100**		12		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Arsenic	**2.7**		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Beryllium	<0.37		0.37		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Cadmium	<0.62		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Chromium	**9.8**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Copper	**14**		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Nickel	**5.0**		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Lead	**11**		0.62		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Antimony	<6.2		6.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Selenium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Thallium	<1.2		1.2		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1
Zinc	**36**		2.5		mg/Kg	☼	05/21/15 11:41	05/23/15 13:57	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.019		mg/Kg	☼	05/21/15 09:12	05/26/15 12:42	1

Client Sample ID: B-7 0'-11'

Lab Sample ID: 400-105845-31
Date Collected: 05/19/15 13:26
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
1,1,2,2-Tetrachloroethane	<5.6	*	5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
1,1,2-Trichloroethane	<5.6	*	5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
1,1-Dichloroethane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
1,1-Dichloroethene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1

Client Sample ID: B-7 0'-11'
Date Collected: 05/19/15 13:26
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-31
Matrix: Solid
Percent Solids: 88.0

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
1,2-Dichloroethane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
1,2-Dichloropropane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
1,3-Dichlorobenzene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
1,4-Dichlorobenzene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
2-Hexanone	<28		28		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Acetone	<28		28		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Benzene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Bromoform	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Bromomethane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Carbon disulfide	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Carbon tetrachloride	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Chlorobenzene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Chlorodibromomethane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Chloroethane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Chloroform	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Chloromethane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
cis-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
cis-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Dichlorobromomethane	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Ethylbenzene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
m-Xylene & p-Xylene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
2-Butanone (MEK)	<28	*	28		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Methylene Chloride	<17		17		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
o-Xylene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Styrene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Tetrachloroethene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Toluene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
trans-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
trans-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Trichloroethene	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Vinyl chloride	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1
Xylenes, Total	<5.6		5.6		ug/Kg	☼	06/02/15 10:19	06/02/15 15:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*06/02/15 10:19*	*06/02/15 15:22*	*1*
Dibromofluoromethane	*115*		*79 - 123*	*06/02/15 10:19*	*06/02/15 15:22*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*	*06/02/15 10:19*	*06/02/15 15:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
1,4-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1

Client Sample ID: B-7 0'-11'
Date Collected: 05/19/15 13:26
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-31
Matrix: Solid
Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Chlorophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2-Methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
3 & 4 Methylphenol	<750		750		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
4-Chloroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
4-Nitroaniline	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
4-Nitrophenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Acenaphthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Acenaphthylene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Carbazole	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Chrysene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Dibenzofuran	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Diethyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Dimethyl phthalate	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Fluoranthene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Fluorene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Hexachlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Hexachloroethane	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Isophorone	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Naphthalene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Nitrobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Pentachlorophenol	<750		750		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1

Client Sample ID: B-7 0'-11'
Date Collected: 05/19/15 13:26
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-31
Matrix: Solid
Percent Solids: 88.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenanthrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Phenol	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Pyrene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
1,2-Dichlorobenzene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1
Dinoseb	<370		370		ug/Kg	☼	05/21/15 08:04	05/29/15 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*84*		*37 - 120*	*05/21/15 08:04*	*05/29/15 13:31*	*1*
Terphenyl-d14 (Surr)	*92*		*36 - 134*	*05/21/15 08:04*	*05/29/15 13:31*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 133*	*05/21/15 08:04*	*05/29/15 13:31*	*1*
2-Fluorobiphenyl	*84*		*44 - 120*	*05/21/15 08:04*	*05/29/15 13:31*	*1*
2-Fluorophenol (Surr)	*77*		*25 - 120*	*05/21/15 08:04*	*05/29/15 13:31*	*1*
Nitrobenzene-d5 (Surr)	*77*		*27 - 120*	*05/21/15 08:04*	*05/29/15 13:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:55	1
PCB-1221	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:55	1
PCB-1232	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:55	1
PCB-1242	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:55	1
PCB-1248	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:55	1
PCB-1254	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:55	1
PCB-1260	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 07:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*121*		*30 - 150*	*05/22/15 08:08*	*05/27/15 07:55*	*1*
Tetrachloro-m-xylene	*94*		*43 - 142*	*05/22/15 08:08*	*05/27/15 07:55*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Aluminum	**360**		10		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Arsenic	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Beryllium	<0.31		0.31		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Cadmium	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Chromium	**1.4**		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Copper	**1.2**		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Nickel	<0.52		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Lead	**2.1**		0.52		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Antimony	<5.2		5.2		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Selenium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Thallium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1
Zinc	**2.4**		2.1		mg/Kg	☼	05/21/15 11:41	05/23/15 14:00	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	05/21/15 09:12	05/26/15 12:43	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: TW-7
Date Collected: 05/19/15 14:50
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-32
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/31/15 22:53	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/31/15 22:53	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/31/15 22:53	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/31/15 22:53	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:53	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:53	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/31/15 22:53	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/31/15 22:53	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:53	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 22:53	1
2-Hexanone	<25		25		ug/L			05/31/15 22:53	1
Acetone	<25		25		ug/L			05/31/15 22:53	1
Benzene	<1.0		1.0		ug/L			05/31/15 22:53	1
Bromoform	<5.0		5.0		ug/L			05/31/15 22:53	1
Bromomethane	<1.0		1.0		ug/L			05/31/15 22:53	1
Carbon disulfide	<1.0		1.0		ug/L			05/31/15 22:53	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/31/15 22:53	1
Chlorobenzene	<1.0		1.0		ug/L			05/31/15 22:53	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/31/15 22:53	1
Chloroethane	<1.0		1.0		ug/L			05/31/15 22:53	1
Chloroform	<1.0		1.0		ug/L			05/31/15 22:53	1
Chloromethane	<1.0		1.0		ug/L			05/31/15 22:53	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:53	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 22:53	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/31/15 22:53	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/15 22:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/31/15 22:53	1
2-Butanone (MEK)	<25		25		ug/L			05/31/15 22:53	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/31/15 22:53	1
Methylene Chloride	<5.0		5.0		ug/L			05/31/15 22:53	1
o-Xylene	<5.0		5.0		ug/L			05/31/15 22:53	1
Styrene	<1.0		1.0		ug/L			05/31/15 22:53	1
Tetrachloroethene	<1.0		1.0		ug/L			05/31/15 22:53	1
Toluene	<1.0		1.0		ug/L			05/31/15 22:53	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 22:53	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 22:53	1
Trichloroethene	<1.0		1.0		ug/L			05/31/15 22:53	1
Vinyl chloride	<1.0		1.0		ug/L			05/31/15 22:53	1
Xylenes, Total	<5.0		5.0		ug/L			05/31/15 22:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*05/31/15 22:53*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*05/31/15 22:53*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*		*05/31/15 22:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 19:16	1
1,4-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 19:16	1
1-Methylnaphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1

Client Sample ID: TW-7
Date Collected: 05/19/15 14:50
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-32
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2,4-Dichlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2,4-Dimethylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2,4-Dinitrophenol	<32		32		ug/L		05/22/15 12:59	05/29/15 20:43	1
2-Chlorophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2-Methylnaphthalene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2-Methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
3 & 4 Methylphenol	<21	*	21		ug/L		05/22/15 12:59	05/29/15 20:43	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
4-Bromophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
4-Chloro-3-methylphenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
4-Chloroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
4-Chlorophenyl phenyl ether	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
4-Nitroaniline	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
4-Nitrophenol	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Acenaphthene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Acenaphthylene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Benzidine	<26	*	26		ug/L		05/22/15 12:59	05/29/15 20:43	1
Benzo[a]anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Benzo[a]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Benzo[b]fluoranthene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Benzo[k]fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Butyl benzyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Carbazole	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Chrysene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Di-n-butyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Di-n-octyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Dibenzofuran	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Diethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Dimethyl phthalate	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Fluoranthene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Fluorene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Hexachlorobenzene	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Hexachlorobutadiene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 19:16	1
Hexachlorocyclopentadiene	<21	*	21		ug/L		05/22/15 12:59	05/29/15 20:43	1
Hexachloroethane	<11	H	11		ug/L		05/29/15 11:19	06/01/15 19:16	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Isophorone	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1

Client Sample ID: TW-7
Date Collected: 05/19/15 14:50
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-32
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Naphthalene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Nitrobenzene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Pentachlorophenol	<21		21		ug/L		05/22/15 12:59	05/29/15 20:43	1
Phenanthrene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Phenol	<11	*	11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Pyrene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
1,2,4-Trichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 19:16	1
1,2-Dichlorobenzene	<11	H	11		ug/L		05/29/15 11:19	06/01/15 19:16	1
2,4-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
2,6-Dinitrotoluene	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1
Dinoseb	<11		11		ug/L		05/22/15 12:59	05/29/15 20:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*71*		*10 - 120*	*05/22/15 12:59*	*05/29/15 20:43*	*1*
Phenol-d5 (Surr)	*48*		*10 - 120*	*05/29/15 11:19*	*06/01/15 19:16*	*1*
Terphenyl-d14 (Surr)	*114*		*53 - 125*	*05/22/15 12:59*	*05/29/15 20:43*	*1*
Terphenyl-d14 (Surr)	*76*		*53 - 125*	*05/29/15 11:19*	*06/01/15 19:16*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*15 - 135*	*05/22/15 12:59*	*05/29/15 20:43*	*1*
2,4,6-Tribromophenol (Surr)	*48*		*15 - 135*	*05/29/15 11:19*	*06/01/15 19:16*	*1*
2-Fluorobiphenyl	*79*		*34 - 120*	*05/22/15 12:59*	*05/29/15 20:43*	*1*
2-Fluorobiphenyl	*73*		*34 - 120*	*05/29/15 11:19*	*06/01/15 19:16*	*1*
2-Fluorophenol (Surr)	*61*		*10 - 120*	*05/22/15 12:59*	*05/29/15 20:43*	*1*
2-Fluorophenol (Surr)	*45*		*10 - 120*	*05/29/15 11:19*	*06/01/15 19:16*	*1*
Nitrobenzene-d5 (Surr)	*86*		*27 - 120*	*05/22/15 12:59*	*05/29/15 20:43*	*1*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*	*05/29/15 11:19*	*06/01/15 19:16*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:35	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:35	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:35	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:35	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:35	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:35	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 16:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*		*10 - 125*	*05/22/15 08:24*	*05/29/15 16:35*	*1*
Tetrachloro-m-xylene	*77*		*46 - 150*	*05/22/15 08:24*	*05/29/15 16:35*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/21/15 10:05	05/21/15 18:11	1
Arsenic	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:11	1
Beryllium	<0.0030		0.0030		mg/L		05/21/15 10:05	05/21/15 18:11	1
Cadmium	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:11	1
Chromium	**0.010**		0.010		mg/L		05/21/15 10:05	05/21/15 18:11	1
Copper	**0.015**		0.010		mg/L		05/21/15 10:05	05/21/15 18:11	1

Client Sample ID: TW-7

Lab Sample ID: 400-105845-32

Date Collected: 05/19/15 14:50

Matrix: Water

Date Received: 05/20/15 09:00

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**0.019**		0.0050		mg/L		05/21/15 10:05	05/21/15 18:11	1
Nickel	**0.0050**		0.0050		mg/L		05/21/15 10:05	05/21/15 18:11	1
Selenium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:11	1
Silver	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 18:11	1
Thallium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 18:11	1
Zinc	**0.028**		0.020		mg/L		05/21/15 10:05	05/21/15 18:11	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/15 10:49	05/26/15 10:16	1

Client Sample ID: SB-18 0'-11'

Lab Sample ID: 400-105845-33

Date Collected: 05/19/15 13:56

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,1,2,2-Tetrachloroethane	<5.9	*	5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,1,2-Trichloroethane	<5.9	*	5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,1-Dichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,1-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,2-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,2-Dichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,2-Dichloropropane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,3-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
1,4-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
2-Hexanone	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Acetone	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Benzene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Bromoform	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Bromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Carbon disulfide	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Carbon tetrachloride	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Chlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Chlorodibromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Chloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Chloroform	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Chloromethane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
cis-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
cis-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Dichlorobromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Ethylbenzene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
m-Xylene & p-Xylene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
2-Butanone (MEK)	<29	*	29		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
o-Xylene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Styrene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Tetrachloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1

Client Sample ID: SB-18 0'-11'
Date Collected: 05/19/15 13:56
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-33
Matrix: Solid
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
trans-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
trans-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Trichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Vinyl chloride	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1
Xylenes, Total	<5.9		5.9		ug/Kg	☼	06/02/15 10:19	06/02/15 19:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/02/15 10:19*	*06/02/15 19:33*	*1*
Dibromofluoromethane	*106*		*79 - 123*	*06/02/15 10:19*	*06/02/15 19:33*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*06/02/15 10:19*	*06/02/15 19:33*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
1-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2-Chlorophenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2-Methylnaphthalene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2-Methylphenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
3 & 4 Methylphenol	<710		710		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
3,3'-Dichlorobenzidine	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
4,6-Dinitro-2-methylphenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
4-Chloroaniline	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
4-Nitroaniline	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
4-Nitrophenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Acenaphthene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Acenaphthylene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Anthracene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Benzidine	<1100		1100		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Benzo[a]anthracene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Benzo[a]pyrene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Carbazole	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1

Client Sample ID: SB-18 0'-11'
Date Collected: 05/19/15 13:56
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-33
Matrix: Solid
Percent Solids: 92.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Dibenzofuran	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Diethyl phthalate	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Dimethyl phthalate	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Fluoranthene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Fluorene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Hexachlorobenzene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Hexachloroethane	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Isophorone	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Naphthalene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Nitrobenzene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Pentachlorophenol	<710		710		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Phenanthrene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Phenol	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Pyrene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1
Dinoseb	<360		360		ug/Kg	☼	05/21/15 08:04	05/29/15 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*78*		*37 - 120*	*05/21/15 08:04*	*05/29/15 14:07*	*1*
Terphenyl-d14 (Surr)	*92*		*36 - 134*	*05/21/15 08:04*	*05/29/15 14:07*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*32 - 133*	*05/21/15 08:04*	*05/29/15 14:07*	*1*
2-Fluorobiphenyl	*79*		*44 - 120*	*05/21/15 08:04*	*05/29/15 14:07*	*1*
2-Fluorophenol (Surr)	*70*		*25 - 120*	*05/21/15 08:04*	*05/29/15 14:07*	*1*
Nitrobenzene-d5 (Surr)	*71*		*27 - 120*	*05/21/15 08:04*	*05/29/15 14:07*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.1		9.1		ug/Kg	☼	05/22/15 08:08	05/27/15 08:20	1
PCB-1221	<9.1		9.1		ug/Kg	☼	05/22/15 08:08	05/27/15 08:20	1
PCB-1232	<9.1		9.1		ug/Kg	☼	05/22/15 08:08	05/27/15 08:20	1
PCB-1242	<9.1		9.1		ug/Kg	☼	05/22/15 08:08	05/27/15 08:20	1
PCB-1248	<9.1		9.1		ug/Kg	☼	05/22/15 08:08	05/27/15 08:20	1
PCB-1254	<9.1		9.1		ug/Kg	☼	05/22/15 08:08	05/27/15 08:20	1
PCB-1260	<9.1		9.1		ug/Kg	☼	05/22/15 08:08	05/27/15 08:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*98*		*30 - 150*	*05/22/15 08:08*	*05/27/15 08:20*	*1*

Client Sample ID: SB-18 0'-11'

Lab Sample ID: 400-105845-33
Date Collected: 05/19/15 13:56
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 92.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*43 - 142*	*05/22/15 08:08*	*05/27/15 08:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Aluminum	**200**		10		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Arsenic	<0.50		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Beryllium	<0.30		0.30		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Cadmium	<0.50		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Chromium	**1.1**		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Copper	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Nickel	<0.50		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Lead	**1.9**		0.50		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Antimony	<5.0		5.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Selenium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Thallium	<1.0		1.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1
Zinc	<2.0		2.0		mg/Kg	☼	05/21/15 11:41	05/23/15 14:03	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	05/21/15 09:12	05/26/15 12:45	1

Client Sample ID: SB-19 0'-11'

Lab Sample ID: 400-105845-34
Date Collected: 05/19/15 14:12
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,1,2,2-Tetrachloroethane	<5.5	*	5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,1,2-Trichloroethane	<5.5	*	5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,1-Dichloroethane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,1-Dichloroethene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,2-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,2-Dichloroethane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,2-Dichloropropane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,3-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
1,4-Dichlorobenzene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
2-Hexanone	<27		27		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Acetone	<27		27		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Benzene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Bromoform	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Bromomethane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Carbon disulfide	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Carbon tetrachloride	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Chlorobenzene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Chlorodibromomethane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Chloroethane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Chloroform	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Chloromethane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1

Client Sample ID: SB-19 0'-11'
Date Collected: 05/19/15 14:12
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-34
Matrix: Solid
Percent Solids: 83.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
cis-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Dichlorobromomethane	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Ethylbenzene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
m-Xylene & p-Xylene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
2-Butanone (MEK)	<27	*	27		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
4-Methyl-2-pentanone (MIBK)	<27		27		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Methylene Chloride	<16		16		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
o-Xylene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Styrene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Tetrachloroethene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Toluene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
trans-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
trans-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Trichloroethene	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Vinyl chloride	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1
Xylenes, Total	<5.5		5.5		ug/Kg	☼	06/02/15 10:19	06/02/15 16:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/02/15 10:19*	*06/02/15 16:15*	*1*
Dibromofluoromethane	*112*		*79 - 123*	*06/02/15 10:19*	*06/02/15 16:15*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*06/02/15 10:19*	*06/02/15 16:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
1,4-Dichlorobenzene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
1-Methylnaphthalene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2,4,5-Trichlorophenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2,4,6-Trichlorophenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2,4-Dichlorophenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2,4-Dimethylphenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2-Chlorophenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2-Methylnaphthalene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2-Methylphenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2-Nitroaniline	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2-Nitrophenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
3 & 4 Methylphenol	<790		790		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
3,3'-Dichlorobenzidine	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
4,6-Dinitro-2-methylphenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
4-Bromophenyl phenyl ether	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
4-Chloro-3-methylphenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
4-Chloroaniline	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
4-Chlorophenyl phenyl ether	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
4-Nitroaniline	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
4-Nitrophenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Acenaphthene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Acenaphthylene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Anthracene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-19 0'-11'
Date Collected: 05/19/15 14:12
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-34
Matrix: Solid
Percent Solids: 83.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	<1200	F2	1200		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Benzo[a]anthracene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Benzo[a]pyrene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Benzo[b]fluoranthene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Benzo[g,h,i]perylene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Benzo[k]fluoranthene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Bis(2-chloroethoxy)methane	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Bis(2-chloroethyl)ether	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Bis(2-ethylhexyl) phthalate	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Butyl benzyl phthalate	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Carbazole	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Chrysene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Di-n-butyl phthalate	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Di-n-octyl phthalate	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Dibenz(a,h)anthracene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Dibenzofuran	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Diethyl phthalate	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Dimethyl phthalate	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Fluoranthene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Fluorene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Hexachlorobenzene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Hexachlorobutadiene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Hexachlorocyclopentadiene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Hexachloroethane	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Indeno[1,2,3-cd]pyrene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Isophorone	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
N-Nitrosodi-n-propylamine	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
N-Nitrosodimethylamine	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
N-Nitrosodiphenylamine	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Naphthalene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Nitrobenzene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Pentachlorophenol	<790		790		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Phenanthrene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Phenol	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Pyrene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
1,2,4-Trichlorobenzene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
1,2-Dichlorobenzene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2,4-Dinitrotoluene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
2,6-Dinitrotoluene	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1
Dinoseb	<390		390		ug/Kg	☼	05/21/15 08:04	05/27/15 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*98*		*37 - 120*	*05/21/15 08:04*	*05/27/15 21:18*	*1*
Terphenyl-d14 (Surr)	*119*		*36 - 134*	*05/21/15 08:04*	*05/27/15 21:18*	*1*
2,4,6-Tribromophenol (Surr)	*85*		*32 - 133*	*05/21/15 08:04*	*05/27/15 21:18*	*1*
2-Fluorobiphenyl	*96*		*44 - 120*	*05/21/15 08:04*	*05/27/15 21:18*	*1*
2-Fluorophenol (Surr)	*92*		*25 - 120*	*05/21/15 08:04*	*05/27/15 21:18*	*1*
Nitrobenzene-d5 (Surr)	*88*		*27 - 120*	*05/21/15 08:04*	*05/27/15 21:18*	*1*

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-19 0'-11'
Date Collected: 05/19/15 14:12
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-34
Matrix: Solid
Percent Solids: 83.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 08:46	1
PCB-1221	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 08:46	1
PCB-1232	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 08:46	1
PCB-1242	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 08:46	1
PCB-1248	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 08:46	1
PCB-1254	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 08:46	1
PCB-1260	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 08:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*117*		*30 - 150*	*05/22/15 08:08*	*05/27/15 08:46*	*1*
Tetrachloro-m-xylene	*94*		*43 - 142*	*05/22/15 08:08*	*05/27/15 08:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.60		0.60		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Aluminum	**410**		12		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Arsenic	<0.60		0.60		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Cadmium	<0.60		0.60		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Chromium	**1.8**		1.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Copper	<1.2		1.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Nickel	<0.60		0.60		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Lead	**5.0**		0.60		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Antimony	<6.0		6.0		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Selenium	<1.2		1.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Thallium	<1.2		1.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1
Zinc	**3.2**		2.4		mg/Kg	☼	05/27/15 09:35	05/28/15 15:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	05/21/15 09:12	05/26/15 12:46	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-259232/4
Matrix: Water
Analysis Batch: 259232

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/31/15 18:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/31/15 18:34	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/31/15 18:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/31/15 18:34	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/31/15 18:34	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 18:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/31/15 18:34	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/31/15 18:34	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 18:34	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/31/15 18:34	1
2-Hexanone	<25		25		ug/L			05/31/15 18:34	1
Acetone	<25		25		ug/L			05/31/15 18:34	1
Benzene	<1.0		1.0		ug/L			05/31/15 18:34	1
Bromoform	<5.0		5.0		ug/L			05/31/15 18:34	1
Bromomethane	<1.0		1.0		ug/L			05/31/15 18:34	1
Carbon disulfide	<1.0		1.0		ug/L			05/31/15 18:34	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/31/15 18:34	1
Chlorobenzene	<1.0		1.0		ug/L			05/31/15 18:34	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/31/15 18:34	1
Chloroethane	<1.0		1.0		ug/L			05/31/15 18:34	1
Chloroform	<1.0		1.0		ug/L			05/31/15 18:34	1
Chloromethane	<1.0		1.0		ug/L			05/31/15 18:34	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 18:34	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 18:34	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/31/15 18:34	1
Ethylbenzene	<1.0		1.0		ug/L			05/31/15 18:34	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/31/15 18:34	1
2-Butanone (MEK)	<25		25		ug/L			05/31/15 18:34	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/31/15 18:34	1
Methylene Chloride	<5.0		5.0		ug/L			05/31/15 18:34	1
o-Xylene	<5.0		5.0		ug/L			05/31/15 18:34	1
Styrene	<1.0		1.0		ug/L			05/31/15 18:34	1
Tetrachloroethene	<1.0		1.0		ug/L			05/31/15 18:34	1
Toluene	<1.0		1.0		ug/L			05/31/15 18:34	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/31/15 18:34	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/31/15 18:34	1
Trichloroethene	<1.0		1.0		ug/L			05/31/15 18:34	1
Vinyl chloride	<1.0		1.0		ug/L			05/31/15 18:34	1
Xylenes, Total	<5.0		5.0		ug/L			05/31/15 18:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*05/31/15 18:34*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*05/31/15 18:34*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*05/31/15 18:34*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259232/1002
Matrix: Water
Analysis Batch: 259232

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	44.7		ug/L		89	66 - 130
1,1,2,2-Tetrachloroethane	50.0	55.4		ug/L		111	68 - 132
1,1,2-Trichloroethane	50.0	52.0		ug/L		104	80 - 120
1,1-Dichloroethane	50.0	45.6		ug/L		91	75 - 126
1,1-Dichloroethene	50.0	43.6		ug/L		87	50 - 134
1,2-Dichlorobenzene	50.0	51.5		ug/L		103	80 - 121
1,2-Dichloroethane	50.0	45.2		ug/L		90	69 - 128
1,2-Dichloropropane	50.0	46.5		ug/L		93	77 - 126
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	77 - 124
1,4-Dichlorobenzene	50.0	49.5		ug/L		99	79 - 120
2-Hexanone	200	241		ug/L		120	60 - 150
Acetone	200	190		ug/L		95	24 - 150
Benzene	50.0	44.2		ug/L		88	79 - 120
Bromoform	50.0	54.7		ug/L		109	65 - 121
Bromomethane	50.0	44.0		ug/L		88	10 - 150
Carbon disulfide	50.0	44.7		ug/L		89	41 - 140
Carbon tetrachloride	50.0	46.3		ug/L		93	46 - 141
Chlorobenzene	50.0	49.9		ug/L		100	80 - 120
Chlorodibromomethane	50.0	52.0		ug/L		104	63 - 125
Chloroethane	50.0	49.3		ug/L		99	37 - 150
Chloroform	50.0	46.0		ug/L		92	73 - 122
Chloromethane	50.0	41.1		ug/L		82	49 - 141
cis-1,2-Dichloroethene	50.0	46.5		ug/L		93	78 - 122
cis-1,3-Dichloropropene	50.0	48.3		ug/L		97	70 - 122
Dichlorobromomethane	50.0	46.9		ug/L		94	75 - 127
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120
m-Xylene & p-Xylene	50.0	51.1		ug/L		102	70 - 130
2-Butanone (MEK)	200	199		ug/L		100	62 - 137
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		106	63 - 150
Methylene Chloride	50.0	43.1		ug/L		86	70 - 130
o-Xylene	50.0	51.8		ug/L		104	70 - 130
Styrene	50.0	51.8		ug/L		104	79 - 124
Tetrachloroethene	50.0	49.4		ug/L		99	76 - 124
Toluene	50.0	49.1		ug/L		98	80 - 120
trans-1,2-Dichloroethene	50.0	44.3		ug/L		89	70 - 126
trans-1,3-Dichloropropene	50.0	53.2		ug/L		106	64 - 120
Trichloroethene	50.0	44.8		ug/L		90	77 - 120
Vinyl chloride	50.0	43.4		ug/L		87	60 - 128
Xylenes, Total	100	103		ug/L		103	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*78 - 118*
Dibromofluoromethane	*97*		*81 - 121*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-2 MS
Matrix: Water
Analysis Batch: 259232

Client Sample ID: TW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<1.0		50.0	44.6		ug/L		89	60 - 131
1,1,2,2-Tetrachloroethane	<1.0		50.0	53.8		ug/L		108	52 - 148
1,1,2-Trichloroethane	<5.0		50.0	50.7		ug/L		101	68 - 127
1,1-Dichloroethane	<1.0		50.0	45.7		ug/L		91	10 - 150
1,1-Dichloroethene	<1.0		50.0	45.3		ug/L		91	10 - 150
1,2-Dichlorobenzene	<1.0		50.0	50.5		ug/L		101	10 - 150
1,2-Dichloroethane	<1.0		50.0	44.5		ug/L		89	10 - 150
1,2-Dichloropropane	<1.0		50.0	45.9		ug/L		92	65 - 132
1,3-Dichlorobenzene	<1.0		50.0	50.3		ug/L		101	25 - 136
1,4-Dichlorobenzene	<1.0		50.0	48.7		ug/L		97	10 - 150
2-Hexanone	<25		200	232		ug/L		116	24 - 150
Acetone	<25		200	182		ug/L		91	10 - 150
Benzene	<1.0		50.0	44.1		ug/L		88	10 - 150
Bromoform	<5.0		50.0	52.4		ug/L		105	54 - 125
Bromomethane	<1.0		50.0	44.4		ug/L		89	10 - 150
Carbon disulfide	<1.0		50.0	43.9		ug/L		88	10 - 150
Carbon tetrachloride	<1.0		50.0	45.3		ug/L		91	40 - 138
Chlorobenzene	<1.0		50.0	49.6		ug/L		99	10 - 150
Chlorodibromomethane	<1.0		50.0	50.8		ug/L		102	50 - 130
Chloroethane	<1.0		50.0	47.3		ug/L		95	38 - 150
Chloroform	<1.0		50.0	45.3		ug/L		91	10 - 150
Chloromethane	<1.0		50.0	41.8		ug/L		84	26 - 150
cis-1,2-Dichloroethene	<1.0		50.0	46.0		ug/L		92	10 - 150
cis-1,3-Dichloropropene	<5.0		50.0	47.3		ug/L		95	52 - 130
Dichlorobromomethane	<1.0		50.0	46.2		ug/L		92	61 - 133
Ethylbenzene	<1.0		50.0	50.9		ug/L		102	10 - 150
m-Xylene & p-Xylene	<5.0		50.0	50.8		ug/L		102	10 - 150
2-Butanone (MEK)	<25		200	197		ug/L		98	10 - 150
4-Methyl-2-pentanone (MIBK)	<25		200	205		ug/L		102	20 - 150
Methylene Chloride	<5.0		50.0	42.7		ug/L		85	10 - 150
o-Xylene	<5.0		50.0	52.2		ug/L		104	10 - 150
Styrene	<1.0		50.0	51.9		ug/L		104	24 - 147
Tetrachloroethene	<1.0		50.0	48.1		ug/L		96	10 - 150
Toluene	<1.0		50.0	48.6		ug/L		97	10 - 150
trans-1,2-Dichloroethene	<1.0		50.0	44.2		ug/L		88	66 - 126
trans-1,3-Dichloropropene	<5.0		50.0	53.2		ug/L		106	45 - 128
Trichloroethene	<1.0		50.0	43.4		ug/L		87	10 - 150
Vinyl chloride	<1.0		50.0	42.7		ug/L		85	46 - 136
Xylenes, Total	<5.0		100	103		ug/L		103	10 - 150

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*78 - 118*
Dibromofluoromethane	*98*		*81 - 121*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-2 MSD
Matrix: Water
Analysis Batch: 259232

Client Sample ID: TW-1
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<1.0		50.0	44.5		ug/L		89	60 - 131	0	20
1,1,2,2-Tetrachloroethane	<1.0		50.0	53.0		ug/L		106	52 - 148	1	20
1,1,2-Trichloroethane	<5.0		50.0	49.3		ug/L		99	68 - 127	3	19
1,1-Dichloroethane	<1.0		50.0	45.7		ug/L		91	10 - 150	0	18
1,1-Dichloroethene	<1.0		50.0	44.9		ug/L		90	10 - 150	1	19
1,2-Dichlorobenzene	<1.0		50.0	51.2		ug/L		102	10 - 150	1	38
1,2-Dichloroethane	<1.0		50.0	43.8		ug/L		88	10 - 150	2	19
1,2-Dichloropropane	<1.0		50.0	46.2		ug/L		92	65 - 132	1	18
1,3-Dichlorobenzene	<1.0		50.0	50.2		ug/L		100	25 - 136	0	44
1,4-Dichlorobenzene	<1.0		50.0	49.0		ug/L		98	10 - 150	1	45
2-Hexanone	<25		200	217		ug/L		109	24 - 150	6	24
Acetone	<25		200	170		ug/L		85	10 - 150	7	22
Benzene	<1.0		50.0	44.2		ug/L		88	10 - 150	0	19
Bromoform	<5.0		50.0	51.4		ug/L		103	54 - 125	2	19
Bromomethane	<1.0		50.0	45.7		ug/L		91	10 - 150	3	24
Carbon disulfide	<1.0		50.0	44.5		ug/L		89	10 - 150	1	23
Carbon tetrachloride	<1.0		50.0	44.8		ug/L		90	40 - 138	1	21
Chlorobenzene	<1.0		50.0	48.8		ug/L		98	10 - 150	2	30
Chlorodibromomethane	<1.0		50.0	50.2		ug/L		100	50 - 130	1	21
Chloroethane	<1.0		50.0	44.7		ug/L		89	38 - 150	6	23
Chloroform	<1.0		50.0	45.0		ug/L		90	10 - 150	1	18
Chloromethane	<1.0		50.0	43.1		ug/L		86	26 - 150	3	23
cis-1,2-Dichloroethene	<1.0		50.0	45.6		ug/L		91	10 - 150	1	20
cis-1,3-Dichloropropene	<5.0		50.0	47.4		ug/L		95	52 - 130	0	20
Dichlorobromomethane	<1.0		50.0	45.2		ug/L		90	61 - 133	2	19
Ethylbenzene	<1.0		50.0	50.6		ug/L		101	10 - 150	1	40
m-Xylene & p-Xylene	<5.0		50.0	50.7		ug/L		101	10 - 150	0	43
2-Butanone (MEK)	<25		200	185		ug/L		92	10 - 150	6	21
4-Methyl-2-pentanone (MIBK)	<25		200	194		ug/L		97	20 - 150	6	20
Methylene Chloride	<5.0		50.0	43.1		ug/L		86	10 - 150	1	18
o-Xylene	<5.0		50.0	51.5		ug/L		103	10 - 150	1	39
Styrene	<1.0		50.0	51.9		ug/L		104	24 - 147	0	40
Tetrachloroethene	<1.0		50.0	47.1		ug/L		94	10 - 150	2	35
Toluene	<1.0		50.0	48.8		ug/L		98	10 - 150	0	26
trans-1,2-Dichloroethene	<1.0		50.0	43.6		ug/L		87	66 - 126	1	19
trans-1,3-Dichloropropene	<5.0		50.0	53.0		ug/L		106	45 - 128	0	20
Trichloroethene	<1.0		50.0	43.5		ug/L		87	10 - 150	0	22
Vinyl chloride	<1.0		50.0	45.4		ug/L		91	46 - 136	6	20
Xylenes, Total	<5.0		100	102		ug/L		102	10 - 150	1	41

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*78 - 118*
Dibromofluoromethane	*95*		*81 - 121*
Toluene-d8 (Surr)	*105*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259337/1-A
Matrix: Solid
Analysis Batch: 259339

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259337

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
2-Hexanone	<25		25		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Acetone	<25		25		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Benzene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Bromoform	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Bromomethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Chloroethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Chloroform	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Chloromethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
2-Butanone (MEK)	<25		25		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Methylene Chloride	<15		15		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
o-Xylene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Styrene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Toluene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Trichloroethene	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/01/15 08:00	06/01/15 09:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*06/01/15 08:00*	*06/01/15 09:56*	*1*
Dibromofluoromethane	*97*		*79 - 123*	*06/01/15 08:00*	*06/01/15 09:56*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*06/01/15 08:00*	*06/01/15 09:56*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259337/2-A
Matrix: Solid
Analysis Batch: 259339

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259337

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	47.4		ug/Kg		95	72 - 121
1,1,2,2-Tetrachloroethane	50.0	58.5		ug/Kg		117	67 - 120
1,1,2-Trichloroethane	50.0	53.9		ug/Kg		108	75 - 118
1,1-Dichloroethane	50.0	49.4		ug/Kg		99	61 - 128
1,1-Dichloroethene	50.0	49.2		ug/Kg		98	62 - 130
1,2-Dichlorobenzene	50.0	53.0		ug/Kg		106	76 - 120
1,2-Dichloroethane	50.0	47.3		ug/Kg		95	70 - 125
1,2-Dichloropropane	50.0	49.9		ug/Kg		100	64 - 129
1,3-Dichlorobenzene	50.0	52.9		ug/Kg		106	78 - 118
1,4-Dichlorobenzene	50.0	51.4		ug/Kg		103	77 - 118
2-Hexanone	200	258		ug/Kg		129	54 - 140
Acetone	200	208		ug/Kg		104	43 - 150
Benzene	50.0	47.7		ug/Kg		95	74 - 119
Bromoform	50.0	58.2		ug/Kg		116	54 - 125
Bromomethane	50.0	46.9		ug/Kg		94	25 - 150
Carbon disulfide	50.0	48.3		ug/Kg		97	26 - 150
Carbon tetrachloride	50.0	49.8		ug/Kg		100	70 - 128
Chlorobenzene	50.0	51.4		ug/Kg		103	80 - 116
Chlorodibromomethane	50.0	54.1		ug/Kg		108	65 - 131
Chloroethane	50.0	50.2		ug/Kg		100	22 - 150
Chloroform	50.0	48.6		ug/Kg		97	74 - 119
Chloromethane	50.0	43.1		ug/Kg		86	36 - 147
cis-1,2-Dichloroethene	50.0	49.6		ug/Kg		99	68 - 126
cis-1,3-Dichloropropene	50.0	51.9		ug/Kg		104	68 - 125
Dichlorobromomethane	50.0	49.6		ug/Kg		99	68 - 128
Ethylbenzene	50.0	52.9		ug/Kg		106	78 - 120
m-Xylene & p-Xylene	50.0	53.1		ug/Kg		106	70 - 120
2-Butanone (MEK)	200	226		ug/Kg		113	62 - 126
4-Methyl-2-pentanone (MIBK)	200	233		ug/Kg		116	56 - 137
Methylene Chloride	50.0	45.9		ug/Kg		92	45 - 150
o-Xylene	50.0	53.6		ug/Kg		107	70 - 120
Styrene	50.0	54.3		ug/Kg		109	66 - 132
Tetrachloroethene	50.0	49.9		ug/Kg		100	74 - 126
Toluene	50.0	51.6		ug/Kg		103	76 - 120
trans-1,2-Dichloroethene	50.0	47.4		ug/Kg		95	65 - 130
trans-1,3-Dichloropropene	50.0	56.4		ug/Kg		113	65 - 126
Trichloroethene	50.0	47.2		ug/Kg		94	76 - 122
Vinyl chloride	50.0	46.6		ug/Kg		93	52 - 134
Xylenes, Total	100	107		ug/Kg		107	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*72 - 122*
Dibromofluoromethane	*98*		*79 - 123*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-3 MS
Matrix: Solid
Analysis Batch: 259339

Client Sample ID: SB-1 0'-11'
Prep Type: Total/NA
Prep Batch: 259337

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<5.1		57.3	50.6		ug/Kg	☼	88	53 - 130
1,1,2,2-Tetrachloroethane	<5.1		57.3	58.3		ug/Kg	☼	102	10 - 155
1,1,2-Trichloroethane	<5.1		57.3	58.2		ug/Kg	☼	101	49 - 130
1,1-Dichloroethane	<5.1		57.3	52.7		ug/Kg	☼	92	53 - 130
1,1-Dichloroethene	<5.1		57.3	52.9		ug/Kg	☼	92	57 - 133
1,2-Dichlorobenzene	<5.1		57.3	56.0		ug/Kg	☼	98	41 - 130
1,2-Dichloroethane	<5.1		57.3	50.6		ug/Kg	☼	88	52 - 130
1,2-Dichloropropane	<5.1		57.3	54.7		ug/Kg	☼	95	52 - 130
1,3-Dichlorobenzene	<5.1		57.3	56.2		ug/Kg	☼	98	43 - 130
1,4-Dichlorobenzene	<5.1		57.3	53.5		ug/Kg	☼	93	42 - 130
2-Hexanone	<26		229	252		ug/Kg	☼	110	16 - 163
Acetone	<26		229	210		ug/Kg	☼	92	30 - 175
Benzene	<5.1		57.3	51.5		ug/Kg	☼	90	56 - 130
Bromoform	<5.1		57.3	58.5		ug/Kg	☼	102	40 - 130
Bromomethane	<5.1		57.3	56.6		ug/Kg	☼	99	14 - 185
Carbon disulfide	<5.1		57.3	51.2		ug/Kg	☼	89	56 - 130
Carbon tetrachloride	<5.1		57.3	50.6		ug/Kg	☼	88	52 - 133
Chlorobenzene	<5.1		57.3	56.2		ug/Kg	☼	98	55 - 130
Chlorodibromomethane	<5.1		57.3	58.5		ug/Kg	☼	102	49 - 130
Chloroethane	<5.1		57.3	54.1		ug/Kg	☼	94	39 - 157
Chloroform	<5.1		57.3	52.8		ug/Kg	☼	92	54 - 130
Chloromethane	<5.1		57.3	50.8		ug/Kg	☼	89	37 - 137
cis-1,2-Dichloroethene	<5.1		57.3	53.1		ug/Kg	☼	93	48 - 130
cis-1,3-Dichloropropene	<5.1		57.3	55.6		ug/Kg	☼	97	48 - 130
Dichlorobromomethane	<5.1		57.3	53.2		ug/Kg	☼	93	51 - 130
Ethylbenzene	<5.1		57.3	58.4		ug/Kg	☼	102	50 - 130
m-Xylene & p-Xylene	<5.1		57.3	58.6		ug/Kg	☼	102	53 - 130
2-Butanone (MEK)	<26		229	214		ug/Kg	☼	93	26 - 151
4-Methyl-2-pentanone (MIBK)	<26		229	226		ug/Kg	☼	98	27 - 146
Methylene Chloride	<15		57.3	54.4		ug/Kg	☼	95	52 - 130
o-Xylene	<5.1		57.3	60.0		ug/Kg	☼	105	53 - 130
Styrene	<5.1		57.3	60.4		ug/Kg	☼	105	50 - 130
Tetrachloroethene	<5.1		57.3	56.7		ug/Kg	☼	99	30 - 157
Toluene	<5.1		57.3	57.6		ug/Kg	☼	100	55 - 130
trans-1,2-Dichloroethene	<5.1		57.3	51.0		ug/Kg	☼	89	60 - 130
trans-1,3-Dichloropropene	<5.1		57.3	61.5		ug/Kg	☼	107	47 - 130
Trichloroethene	<5.1		57.3	49.4		ug/Kg	☼	86	41 - 145
Vinyl chloride	<5.1		57.3	54.6		ug/Kg	☼	95	50 - 141
Xylenes, Total	<5.1		115	119		ug/Kg	☼	103	51 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*72 - 122*
Dibromofluoromethane	*97*		*79 - 123*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-3 MSD
Matrix: Solid
Analysis Batch: 259339

Client Sample ID: SB-1 0'-11'
Prep Type: Total/NA
Prep Batch: 259337

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<5.1		50.5	44.7		ug/Kg	☼	89	53 - 130	12	30
1,1,2,2-Tetrachloroethane	<5.1		50.5	52.9		ug/Kg	☼	105	10 - 155	10	57
1,1,2-Trichloroethane	<5.1		50.5	51.1		ug/Kg	☼	101	49 - 130	13	30
1,1-Dichloroethane	<5.1		50.5	47.0		ug/Kg	☼	93	53 - 130	12	30
1,1-Dichloroethene	<5.1		50.5	46.8		ug/Kg	☼	93	57 - 133	12	30
1,2-Dichlorobenzene	<5.1		50.5	49.3		ug/Kg	☼	98	41 - 130	13	30
1,2-Dichloroethane	<5.1		50.5	45.4		ug/Kg	☼	90	52 - 130	11	30
1,2-Dichloropropane	<5.1		50.5	48.4		ug/Kg	☼	96	52 - 130	12	30
1,3-Dichlorobenzene	<5.1		50.5	49.1		ug/Kg	☼	97	43 - 130	13	31
1,4-Dichlorobenzene	<5.1		50.5	47.0		ug/Kg	☼	93	42 - 130	13	31
2-Hexanone	<26		202	233		ug/Kg	☼	115	16 - 163	8	37
Acetone	<26		202	194		ug/Kg	☼	96	30 - 175	8	31
Benzene	<5.1		50.5	46.1		ug/Kg	☼	91	56 - 130	11	30
Bromoform	<5.1		50.5	51.4		ug/Kg	☼	102	40 - 130	13	30
Bromomethane	<5.1		50.5	49.6		ug/Kg	☼	98	14 - 185	13	44
Carbon disulfide	<5.1		50.5	45.1		ug/Kg	☼	89	56 - 130	13	30
Carbon tetrachloride	<5.1		50.5	45.7		ug/Kg	☼	91	52 - 133	10	30
Chlorobenzene	<5.1		50.5	48.4		ug/Kg	☼	96	55 - 130	15	30
Chlorodibromomethane	<5.1		50.5	50.5		ug/Kg	☼	100	49 - 130	15	30
Chloroethane	<5.1		50.5	47.9		ug/Kg	☼	95	39 - 157	12	55
Chloroform	<5.1		50.5	47.0		ug/Kg	☼	93	54 - 130	12	30
Chloromethane	<5.1		50.5	44.2		ug/Kg	☼	88	37 - 137	14	30
cis-1,2-Dichloroethene	<5.1		50.5	47.6		ug/Kg	☼	94	48 - 130	11	30
cis-1,3-Dichloropropene	<5.1		50.5	50.1		ug/Kg	☼	99	48 - 130	10	30
Dichlorobromomethane	<5.1		50.5	47.5		ug/Kg	☼	94	51 - 130	11	30
Ethylbenzene	<5.1		50.5	50.7		ug/Kg	☼	100	50 - 130	14	30
m-Xylene & p-Xylene	<5.1		50.5	50.8		ug/Kg	☼	101	53 - 130	14	30
2-Butanone (MEK)	<26		202	198		ug/Kg	☼	98	26 - 151	8	36
4-Methyl-2-pentanone (MIBK)	<26		202	210		ug/Kg	☼	104	27 - 146	7	32
Methylene Chloride	<15		50.5	50.7		ug/Kg	☼	100	52 - 130	7	30
o-Xylene	<5.1		50.5	51.5		ug/Kg	☼	102	53 - 130	15	30
Styrene	<5.1		50.5	52.0		ug/Kg	☼	103	50 - 130	15	30
Tetrachloroethene	<5.1		50.5	50.3		ug/Kg	☼	100	30 - 157	12	30
Toluene	<5.1		50.5	49.3		ug/Kg	☼	98	55 - 130	15	30
trans-1,2-Dichloroethene	<5.1		50.5	45.0		ug/Kg	☼	89	60 - 130	13	30
trans-1,3-Dichloropropene	<5.1		50.5	53.4		ug/Kg	☼	106	47 - 130	14	30
Trichloroethene	<5.1		50.5	44.2		ug/Kg	☼	88	41 - 145	11	30
Vinyl chloride	<5.1		50.5	47.2		ug/Kg	☼	94	50 - 141	14	30
Xylenes, Total	<5.1		101	102		ug/Kg	☼	101	51 - 130	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*103*		*72 - 122*
Dibromofluoromethane	*100*		*79 - 123*
Toluene-d8 (Surr)	*106*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259342/1-A
Matrix: Solid
Analysis Batch: 259278

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259342

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
2-Hexanone	<25		25		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Acetone	<25		25		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Benzene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Bromoform	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Bromomethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Chloroethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Chloroform	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Chloromethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
2-Butanone (MEK)	<25		25		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Methylene Chloride	<15		15		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
o-Xylene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Styrene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Toluene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Trichloroethene	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/01/15 13:14	06/01/15 15:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*06/01/15 13:14*	*06/01/15 15:18*	*1*
Dibromofluoromethane	*107*		*79 - 123*	*06/01/15 13:14*	*06/01/15 15:18*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*06/01/15 13:14*	*06/01/15 15:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259342/2-A
Matrix: Solid
Analysis Batch: 259278

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259342

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	40.1		ug/Kg		80	72 - 121
1,1,2,2-Tetrachloroethane	50.0	52.6		ug/Kg		105	67 - 120
1,1,2-Trichloroethane	50.0	51.6		ug/Kg		103	75 - 118
1,1-Dichloroethane	50.0	44.1		ug/Kg		88	61 - 128
1,1-Dichloroethene	50.0	40.8		ug/Kg		82	62 - 130
1,2-Dichlorobenzene	50.0	47.9		ug/Kg		96	76 - 120
1,2-Dichloroethane	50.0	50.9		ug/Kg		102	70 - 125
1,2-Dichloropropane	50.0	46.7		ug/Kg		93	64 - 129
1,3-Dichlorobenzene	50.0	45.1		ug/Kg		90	78 - 118
1,4-Dichlorobenzene	50.0	45.0		ug/Kg		90	77 - 118
2-Hexanone	200	214		ug/Kg		107	54 - 140
Acetone	200	205		ug/Kg		102	43 - 150
Benzene	50.0	43.3		ug/Kg		87	74 - 119
Bromoform	50.0	50.5		ug/Kg		101	54 - 125
Bromomethane	50.0	55.0		ug/Kg		110	25 - 150
Carbon disulfide	50.0	44.7		ug/Kg		89	26 - 150
Carbon tetrachloride	50.0	43.0		ug/Kg		86	70 - 128
Chlorobenzene	50.0	44.5		ug/Kg		89	80 - 116
Chlorodibromomethane	50.0	52.0		ug/Kg		104	65 - 131
Chloroethane	50.0	42.3		ug/Kg		85	22 - 150
Chloroform	50.0	45.1		ug/Kg		90	74 - 119
Chloromethane	50.0	38.8		ug/Kg		78	36 - 147
cis-1,2-Dichloroethene	50.0	45.8		ug/Kg		92	68 - 126
cis-1,3-Dichloropropene	50.0	51.7		ug/Kg		103	68 - 125
Dichlorobromomethane	50.0	48.1		ug/Kg		96	68 - 128
Ethylbenzene	50.0	41.3		ug/Kg		83	78 - 120
m-Xylene & p-Xylene	50.0	42.0		ug/Kg		84	70 - 120
2-Butanone (MEK)	200	253	*	ug/Kg		127	62 - 126
4-Methyl-2-pentanone (MIBK)	200	231		ug/Kg		116	56 - 137
Methylene Chloride	50.0	50.8		ug/Kg		102	45 - 150
o-Xylene	50.0	43.8		ug/Kg		88	70 - 120
Styrene	50.0	48.6		ug/Kg		97	66 - 132
Tetrachloroethene	50.0	39.2		ug/Kg		78	74 - 126
Toluene	50.0	41.7		ug/Kg		83	76 - 120
trans-1,2-Dichloroethene	50.0	43.3		ug/Kg		87	65 - 130
trans-1,3-Dichloropropene	50.0	51.0		ug/Kg		102	65 - 126
Trichloroethene	50.0	42.5		ug/Kg		85	76 - 122
Vinyl chloride	50.0	42.0		ug/Kg		84	52 - 134
Xylenes, Total	100	85.8		ug/Kg		86	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*72 - 122*
Dibromofluoromethane	*106*		*79 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-14 MS
Matrix: Solid
Analysis Batch: 259278

Client Sample ID: SB-8 0'-8'
Prep Type: Total/NA
Prep Batch: 259342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<5.2		54.8	49.9		ug/Kg	☼	91	53 - 130
1,1,1-Trichloroethane	<5.2		54.8	49.9		ug/Kg	☼	91	53 - 130
1,1,2,2-Tetrachloroethane	<5.2		54.8	61.7		ug/Kg	☼	113	10 - 155
1,1,2,2-Tetrachloroethane	<5.2		54.8	61.7		ug/Kg	☼	113	10 - 155
1,1,2-Trichloroethane	<5.2		54.8	61.3		ug/Kg	☼	112	49 - 130
1,1,2-Trichloroethane	<5.2		54.8	61.3		ug/Kg	☼	112	49 - 130
1,1-Dichloroethane	<5.2		54.8	54.1		ug/Kg	☼	99	53 - 130
1,1-Dichloroethane	<5.2		54.8	54.1		ug/Kg	☼	99	53 - 130
1,1-Dichloroethene	<5.2		54.8	51.0		ug/Kg	☼	93	57 - 133
1,1-Dichloroethene	<5.2		54.8	51.0		ug/Kg	☼	93	57 - 133
1,2-Dichlorobenzene	<5.2		54.8	55.5		ug/Kg	☼	101	41 - 130
1,2-Dichlorobenzene	<5.2		54.8	55.5		ug/Kg	☼	101	41 - 130
1,2-Dichloroethane	<5.2		54.8	60.0		ug/Kg	☼	109	52 - 130
1,2-Dichloroethane	<5.2		54.8	60.0		ug/Kg	☼	109	52 - 130
1,2-Dichloropropane	<5.2		54.8	55.5		ug/Kg	☼	101	52 - 130
1,2-Dichloropropane	<5.2		54.8	55.5		ug/Kg	☼	101	52 - 130
1,3-Dichlorobenzene	<5.2		54.8	51.6		ug/Kg	☼	94	43 - 130
1,3-Dichlorobenzene	<5.2		54.8	51.6		ug/Kg	☼	94	43 - 130
1,4-Dichlorobenzene	<5.2		54.8	50.8		ug/Kg	☼	93	42 - 130
1,4-Dichlorobenzene	<5.2		54.8	50.8		ug/Kg	☼	93	42 - 130
2-Hexanone	<26		219	260		ug/Kg	☼	119	16 - 163
2-Hexanone	<26		219	260		ug/Kg	☼	119	16 - 163
Acetone	<26		219	263		ug/Kg	☼	120	30 - 175
Acetone	<26		219	263		ug/Kg	☼	120	30 - 175
Benzene	<5.2		54.8	52.7		ug/Kg	☼	96	56 - 130
Benzene	<5.2		54.8	52.7		ug/Kg	☼	96	56 - 130
Bromoform	<5.2		54.8	59.7		ug/Kg	☼	109	40 - 130
Bromoform	<5.2		54.8	59.7		ug/Kg	☼	109	40 - 130
Bromomethane	<5.2		54.8	62.6		ug/Kg	☼	114	14 - 185
Bromomethane	<5.2		54.8	64.1		ug/Kg	☼	117	14 - 185
Carbon disulfide	<5.2		54.8	55.9		ug/Kg	☼	102	56 - 130
Carbon disulfide	<5.2		54.8	55.9		ug/Kg	☼	102	56 - 130
Carbon tetrachloride	<5.2		54.8	54.3		ug/Kg	☼	99	52 - 133
Carbon tetrachloride	<5.2		54.8	54.3		ug/Kg	☼	99	52 - 133
Chlorobenzene	<5.2		54.8	53.2		ug/Kg	☼	97	55 - 130
Chlorobenzene	<5.2		54.8	53.2		ug/Kg	☼	97	55 - 130
Chlorodibromomethane	<5.2	F1	54.8	61.6		ug/Kg	☼	112	49 - 130
Chlorodibromomethane	<5.2	F1	54.8	61.6		ug/Kg	☼	112	49 - 130
Chloroethane	<5.2		54.8	48.0		ug/Kg	☼	88	39 - 157
Chloroethane	<5.2		54.8	48.0		ug/Kg	☼	88	39 - 157
Chloroform	<5.2		54.8	55.0		ug/Kg	☼	100	54 - 130
Chloroform	<5.2		54.8	55.0		ug/Kg	☼	100	54 - 130
Chloromethane	<5.2		54.8	42.6		ug/Kg	☼	78	37 - 137
Chloromethane	<5.2		54.8	42.6		ug/Kg	☼	78	37 - 137
cis-1,2-Dichloroethene	<5.2		54.8	55.1		ug/Kg	☼	101	48 - 130
cis-1,2-Dichloroethene	<5.2		54.8	55.1		ug/Kg	☼	101	48 - 130
cis-1,3-Dichloropropene	<5.2		54.8	60.2		ug/Kg	☼	110	48 - 130
cis-1,3-Dichloropropene	<5.2		54.8	60.2		ug/Kg	☼	110	48 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-14 MS
Matrix: Solid
Analysis Batch: 259278

Client Sample ID: SB-8 0'-8'
Prep Type: Total/NA
Prep Batch: 259342

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dichlorobromomethane	<5.2		54.8	58.4		ug/Kg	☼	107	51 - 130
Dichlorobromomethane	<5.2		54.8	58.4		ug/Kg	☼	107	51 - 130
Ethylbenzene	<5.2		54.8	50.0		ug/Kg	☼	91	50 - 130
Ethylbenzene	<5.2		54.8	50.0		ug/Kg	☼	91	50 - 130
m-Xylene & p-Xylene	<5.2		54.8	50.2		ug/Kg	☼	92	53 - 130
m-Xylene & p-Xylene	<5.2		54.8	50.2		ug/Kg	☼	92	53 - 130
2-Butanone (MEK)	<26		219	299		ug/Kg	☼	136	26 - 151
2-Butanone (MEK)	<26		219	299		ug/Kg	☼	136	26 - 151
4-Methyl-2-pentanone (MIBK)	<26		219	275		ug/Kg	☼	125	27 - 146
4-Methyl-2-pentanone (MIBK)	<26		219	275		ug/Kg	☼	125	27 - 146
Methylene Chloride	<16		54.8	60.5		ug/Kg	☼	110	52 - 130
Methylene Chloride	<16		54.8	55.6		ug/Kg	☼	101	52 - 130
o-Xylene	<5.2		54.8	52.7		ug/Kg	☼	96	53 - 130
o-Xylene	<5.2		54.8	52.7		ug/Kg	☼	96	53 - 130
Styrene	<5.2		54.8	57.4		ug/Kg	☼	105	50 - 130
Styrene	<5.2		54.8	57.4		ug/Kg	☼	105	50 - 130
Tetrachloroethene	<5.2		54.8	56.7		ug/Kg	☼	103	30 - 157
Tetrachloroethene	<5.2		54.8	56.7		ug/Kg	☼	103	30 - 157
Toluene	<5.2		54.8	50.9		ug/Kg	☼	93	55 - 130
Toluene	<5.2		54.8	50.9		ug/Kg	☼	93	55 - 130
trans-1,2-Dichloroethene	<5.2		54.8	52.7		ug/Kg	☼	96	60 - 130
trans-1,2-Dichloroethene	<5.2		54.8	52.7		ug/Kg	☼	96	60 - 130
trans-1,3-Dichloropropene	<5.2		54.8	59.5		ug/Kg	☼	109	47 - 130
trans-1,3-Dichloropropene	<5.2		54.8	59.5		ug/Kg	☼	109	47 - 130
Trichloroethene	<5.2		54.8	52.5		ug/Kg	☼	96	41 - 145
Trichloroethene	<5.2		54.8	52.5		ug/Kg	☼	96	41 - 145
Vinyl chloride	<5.2		54.8	46.9		ug/Kg	☼	86	50 - 141
Vinyl chloride	<5.2		54.8	46.9		ug/Kg	☼	86	50 - 141
Xylenes, Total	<5.2		110	103		ug/Kg	☼	94	51 - 130
Xylenes, Total	<5.2		110	103		ug/Kg	☼	94	51 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 122*
4-Bromofluorobenzene	*98*		*72 - 122*
Dibromofluoromethane	*107*		*79 - 123*
Dibromofluoromethane	*107*		*79 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-105845-14 MSD
Matrix: Solid
Analysis Batch: 259278

Client Sample ID: SB-8 0'-8'
Prep Type: Total/NA
Prep Batch: 259342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<5.2		52.9	57.0		ug/Kg	☼	108	53 - 130	13	30
1,1,1-Trichloroethane	<5.2		52.9	57.0		ug/Kg	☼	108	53 - 130	13	30
1,1,2,2-Tetrachloroethane	<5.2		52.9	68.0		ug/Kg	☼	129	10 - 155	10	57
1,1,2,2-Tetrachloroethane	<5.2		52.9	68.0		ug/Kg	☼	129	10 - 155	10	57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-14 MSD
Matrix: Solid
Analysis Batch: 259278

Client Sample ID: SB-8 0'-8'
Prep Type: Total/NA
Prep Batch: 259342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	<5.2		52.9	68.8		ug/Kg	☼	130	49 - 130	12	30
1,1,2-Trichloroethane	<5.2		52.9	68.8		ug/Kg	☼	130	49 - 130	12	30
1,1-Dichloroethane	<5.2		52.9	61.5		ug/Kg	☼	116	53 - 130	13	30
1,1-Dichloroethane	<5.2		52.9	61.5		ug/Kg	☼	116	53 - 130	13	30
1,1-Dichloroethene	<5.2		52.9	58.9		ug/Kg	☼	111	57 - 133	14	30
1,1-Dichloroethene	<5.2		52.9	58.9		ug/Kg	☼	111	57 - 133	14	30
1,2-Dichlorobenzene	<5.2		52.9	61.5		ug/Kg	☼	116	41 - 130	10	30
1,2-Dichlorobenzene	<5.2		52.9	61.5		ug/Kg	☼	116	41 - 130	10	30
1,2-Dichloroethane	<5.2		52.9	67.2		ug/Kg	☼	127	52 - 130	11	30
1,2-Dichloroethane	<5.2		52.9	67.2		ug/Kg	☼	127	52 - 130	11	30
1,2-Dichloropropane	<5.2		52.9	64.0		ug/Kg	☼	121	52 - 130	14	30
1,2-Dichloropropane	<5.2		52.9	64.0		ug/Kg	☼	121	52 - 130	14	30
1,3-Dichlorobenzene	<5.2		52.9	58.5		ug/Kg	☼	111	43 - 130	12	31
1,3-Dichlorobenzene	<5.2		52.9	58.5		ug/Kg	☼	111	43 - 130	12	31
1,4-Dichlorobenzene	<5.2		52.9	58.0		ug/Kg	☼	110	42 - 130	13	31
1,4-Dichlorobenzene	<5.2		52.9	58.0		ug/Kg	☼	110	42 - 130	13	31
2-Hexanone	<26		212	277		ug/Kg	☼	131	16 - 163	6	37
2-Hexanone	<26		212	277		ug/Kg	☼	131	16 - 163	6	37
Acetone	<26		212	283		ug/Kg	☼	134	30 - 175	7	31
Acetone	<26		212	282		ug/Kg	☼	133	30 - 175	7	31
Benzene	<5.2		52.9	59.9		ug/Kg	☼	113	56 - 130	13	30
Benzene	<5.2		52.9	59.9		ug/Kg	☼	113	56 - 130	13	30
Bromoform	<5.2		52.9	65.6		ug/Kg	☼	124	40 - 130	9	30
Bromoform	<5.2		52.9	65.6		ug/Kg	☼	124	40 - 130	9	30
Bromomethane	<5.2		52.9	63.0		ug/Kg	☼	119	14 - 185	1	44
Bromomethane	<5.2		52.9	64.5		ug/Kg	☼	122	14 - 185	1	44
Carbon disulfide	<5.2		52.9	63.6		ug/Kg	☼	120	56 - 130	13	30
Carbon disulfide	<5.2		52.9	63.6		ug/Kg	☼	120	56 - 130	13	30
Carbon tetrachloride	<5.2		52.9	61.5		ug/Kg	☼	116	52 - 133	12	30
Carbon tetrachloride	<5.2		52.9	61.5		ug/Kg	☼	116	52 - 133	12	30
Chlorobenzene	<5.2		52.9	60.9		ug/Kg	☼	115	55 - 130	14	30
Chlorobenzene	<5.2		52.9	60.9		ug/Kg	☼	115	55 - 130	14	30
Chlorodibromomethane	<5.2	F1	52.9	69.9	F1	ug/Kg	☼	132	49 - 130	13	30
Chlorodibromomethane	<5.2	F1	52.9	69.9	F1	ug/Kg	☼	132	49 - 130	13	30
Chloroethane	<5.2		52.9	48.7		ug/Kg	☼	92	39 - 157	1	55
Chloroethane	<5.2		52.9	48.7		ug/Kg	☼	92	39 - 157	1	55
Chloroform	<5.2		52.9	62.6		ug/Kg	☼	118	54 - 130	13	30
Chloroform	<5.2		52.9	62.6		ug/Kg	☼	118	54 - 130	13	30
Chloromethane	<5.2		52.9	44.1		ug/Kg	☼	83	37 - 137	4	30
Chloromethane	<5.2		52.9	44.1		ug/Kg	☼	83	37 - 137	4	30
cis-1,2-Dichloroethene	<5.2		52.9	63.0		ug/Kg	☼	119	48 - 130	13	30
cis-1,2-Dichloroethene	<5.2		52.9	63.0		ug/Kg	☼	119	48 - 130	13	30
cis-1,3-Dichloropropene	<5.2		52.9	68.5		ug/Kg	☼	130	48 - 130	13	30
cis-1,3-Dichloropropene	<5.2		52.9	68.5		ug/Kg	☼	130	48 - 130	13	30
Dichlorobromomethane	<5.2		52.9	66.5		ug/Kg	☼	126	51 - 130	13	30
Dichlorobromomethane	<5.2		52.9	66.5		ug/Kg	☼	126	51 - 130	13	30
Ethylbenzene	<5.2		52.9	57.2		ug/Kg	☼	108	50 - 130	13	30
Ethylbenzene	<5.2		52.9	57.2		ug/Kg	☼	108	50 - 130	13	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-14 MSD
Matrix: Solid
Analysis Batch: 259278

Client Sample ID: SB-8 0'-8'
Prep Type: Total/NA
Prep Batch: 259342

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
m-Xylene & p-Xylene	<5.2		52.9	58.0		ug/Kg	☼	110	53 - 130	14	30
m-Xylene & p-Xylene	<5.2		52.9	58.0		ug/Kg	☼	110	53 - 130	14	30
2-Butanone (MEK)	<26		212	318		ug/Kg	☼	150	26 - 151	6	36
2-Butanone (MEK)	<26		212	318		ug/Kg	☼	150	26 - 151	6	36
4-Methyl-2-pentanone (MIBK)	<26		212	296		ug/Kg	☼	140	27 - 146	7	32
4-Methyl-2-pentanone (MIBK)	<26		212	296		ug/Kg	☼	140	27 - 146	7	32
Methylene Chloride	<16		52.9	68.8		ug/Kg	☼	130	52 - 130	13	30
Methylene Chloride	<16		52.9	63.1		ug/Kg	☼	119	52 - 130	13	30
o-Xylene	<5.2		52.9	60.3		ug/Kg	☼	114	53 - 130	14	30
o-Xylene	<5.2		52.9	60.3		ug/Kg	☼	114	53 - 130	14	30
Styrene	<5.2		52.9	65.7		ug/Kg	☼	124	50 - 130	14	30
Styrene	<5.2		52.9	65.7		ug/Kg	☼	124	50 - 130	14	30
Tetrachloroethene	<5.2		52.9	65.9		ug/Kg	☼	125	30 - 157	15	30
Tetrachloroethene	<5.2		52.9	65.9		ug/Kg	☼	125	30 - 157	15	30
Toluene	<5.2		52.9	58.1		ug/Kg	☼	110	55 - 130	13	30
Toluene	<5.2		52.9	58.1		ug/Kg	☼	110	55 - 130	13	30
trans-1,2-Dichloroethene	<5.2		52.9	60.8		ug/Kg	☼	115	60 - 130	14	30
trans-1,2-Dichloroethene	<5.2		52.9	60.8		ug/Kg	☼	115	60 - 130	14	30
trans-1,3-Dichloropropene	<5.2		52.9	68.1		ug/Kg	☼	129	47 - 130	13	30
trans-1,3-Dichloropropene	<5.2		52.9	68.1		ug/Kg	☼	129	47 - 130	13	30
Trichloroethene	<5.2		52.9	59.8		ug/Kg	☼	113	41 - 145	13	30
Trichloroethene	<5.2		52.9	59.8		ug/Kg	☼	113	41 - 145	13	30
Vinyl chloride	<5.2		52.9	47.0		ug/Kg	☼	89	50 - 141	0	30
Vinyl chloride	<5.2		52.9	47.0		ug/Kg	☼	89	50 - 141	0	30
Xylenes, Total	<5.2		106	118		ug/Kg	☼	112	51 - 130	14	30
Xylenes, Total	<5.2		106	118		ug/Kg	☼	112	51 - 130	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 122*
4-Bromofluorobenzene	*98*		*72 - 122*
Dibromofluoromethane	*106*		*79 - 123*
Dibromofluoromethane	*106*		*79 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*
Toluene-d8 (Surr)	*98*		*80 - 120*

Lab Sample ID: MB 400-259489/1-A
Matrix: Solid
Analysis Batch: 259439

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259489/1-A
Matrix: Solid
Analysis Batch: 259439

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
2-Hexanone	<25		25		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Acetone	<25		25		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Benzene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Bromoform	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Bromomethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Chloroethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Chloroform	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Chloromethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
2-Butanone (MEK)	<25		25		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Methylene Chloride	<15		15		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
o-Xylene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Styrene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Toluene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Trichloroethene	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/02/15 10:19	06/02/15 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*06/02/15 10:19*	*06/02/15 11:20*	*1*
Dibromofluoromethane	*108*		*79 - 123*	*06/02/15 10:19*	*06/02/15 11:20*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*06/02/15 10:19*	*06/02/15 11:20*	*1*

Lab Sample ID: LCS 400-259489/2-A
Matrix: Solid
Analysis Batch: 259439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	40.7		ug/Kg		81	72 - 121
1,1,2,2-Tetrachloroethane	50.0	60.9	*	ug/Kg		122	67 - 120
1,1,2-Trichloroethane	50.0	59.7	*	ug/Kg		119	75 - 118
1,1-Dichloroethane	50.0	45.6		ug/Kg		91	61 - 128
1,1-Dichloroethene	50.0	41.1		ug/Kg		82	62 - 130
1,2-Dichlorobenzene	50.0	50.9		ug/Kg		102	76 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259489/2-A
Matrix: Solid
Analysis Batch: 259439

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	56.3		ug/Kg		113	70 - 125
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	64 - 129
1,3-Dichlorobenzene	50.0	47.2		ug/Kg		94	78 - 118
1,4-Dichlorobenzene	50.0	47.4		ug/Kg		95	77 - 118
2-Hexanone	200	252		ug/Kg		126	54 - 140
Acetone	200	241		ug/Kg		120	43 - 150
Benzene	50.0	44.0		ug/Kg		88	74 - 119
Bromoform	50.0	55.8		ug/Kg		112	54 - 125
Bromomethane	50.0	57.0		ug/Kg		114	25 - 150
Carbon disulfide	50.0	44.8		ug/Kg		90	26 - 150
Carbon tetrachloride	50.0	43.5		ug/Kg		87	70 - 128
Chlorobenzene	50.0	46.1		ug/Kg		92	80 - 116
Chlorodibromomethane	50.0	56.7		ug/Kg		113	65 - 131
Chloroethane	50.0	44.2		ug/Kg		88	22 - 150
Chloroform	50.0	47.2		ug/Kg		94	74 - 119
Chloromethane	50.0	40.4		ug/Kg		81	36 - 147
cis-1,2-Dichloroethene	50.0	48.7		ug/Kg		97	68 - 126
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	68 - 125
Dichlorobromomethane	50.0	52.7		ug/Kg		105	68 - 128
Ethylbenzene	50.0	42.1		ug/Kg		84	78 - 120
m-Xylene & p-Xylene	50.0	43.0		ug/Kg		86	70 - 120
2-Butanone (MEK)	200	293	*	ug/Kg		147	62 - 126
4-Methyl-2-pentanone (MIBK)	200	270		ug/Kg		135	56 - 137
Methylene Chloride	50.0	53.3		ug/Kg		107	45 - 150
o-Xylene	50.0	45.1		ug/Kg		90	70 - 120
Styrene	50.0	50.8		ug/Kg		102	66 - 132
Tetrachloroethene	50.0	38.8		ug/Kg		78	74 - 126
Toluene	50.0	42.2		ug/Kg		84	76 - 120
trans-1,2-Dichloroethene	50.0	43.8		ug/Kg		88	65 - 130
trans-1,3-Dichloropropene	50.0	57.1		ug/Kg		114	65 - 126
Trichloroethene	50.0	42.9		ug/Kg		86	76 - 122
Vinyl chloride	50.0	43.1		ug/Kg		86	52 - 134
Xylenes, Total	100	88.1		ug/Kg		88	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*96*		*72 - 122*
Dibromofluoromethane	*106*		*79 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-105845-21 MS
Matrix: Solid
Analysis Batch: 259439

Client Sample ID: SB-12 0'-3'
Prep Type: Total/NA
Prep Batch: 259489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<6.0		58.8	42.5		ug/Kg	☼	72	53 - 130
1,1,2,2-Tetrachloroethane	<6.0	*	58.8	51.5		ug/Kg	☼	88	10 - 155
1,1,2-Trichloroethane	<6.0	*	58.8	52.9		ug/Kg	☼	90	49 - 130
1,1-Dichloroethane	<6.0		58.8	47.6		ug/Kg	☼	81	53 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-21 MS
Matrix: Solid
Analysis Batch: 259439

Client Sample ID: SB-12 0'-3'
Prep Type: Total/NA
Prep Batch: 259489

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	<6.0		58.8	42.5		ug/Kg	☼	72	57 - 133
1,2-Dichlorobenzene	<6.0	F2	58.8	33.8		ug/Kg	☼	57	41 - 130
1,2-Dichloroethane	<6.0		58.8	54.6		ug/Kg	☼	93	52 - 130
1,2-Dichloropropane	<6.0		58.8	48.3		ug/Kg	☼	82	52 - 130
1,3-Dichlorobenzene	<6.0	F2	58.8	31.6		ug/Kg	☼	54	43 - 130
1,4-Dichlorobenzene	<6.0	F2	58.8	31.4		ug/Kg	☼	53	42 - 130
2-Hexanone	<30		235	214		ug/Kg	☼	91	16 - 163
Acetone	<30	F2	235	401		ug/Kg	☼	171	30 - 175
Benzene	<6.0		58.8	44.6		ug/Kg	☼	76	56 - 130
Bromoform	<6.0		58.8	46.1		ug/Kg	☼	78	40 - 130
Bromomethane	<6.0		58.8	52.6		ug/Kg	☼	90	14 - 185
Carbon disulfide	<6.0		58.8	39.2		ug/Kg	☼	67	56 - 130
Carbon tetrachloride	<6.0		58.8	44.4		ug/Kg	☼	76	52 - 133
Chlorobenzene	<6.0		58.8	39.8		ug/Kg	☼	68	55 - 130
Chlorodibromomethane	<6.0		58.8	49.9		ug/Kg	☼	85	49 - 130
Chloroethane	<6.0		58.8	42.0		ug/Kg	☼	71	39 - 157
Chloroform	<6.0		58.8	48.8		ug/Kg	☼	83	54 - 130
Chloromethane	<6.0		58.8	39.1		ug/Kg	☼	66	37 - 137
cis-1,2-Dichloroethene	<6.0		58.8	46.0		ug/Kg	☼	78	48 - 130
cis-1,3-Dichloropropene	<6.0		58.8	48.3		ug/Kg	☼	82	48 - 130
Dichlorobromomethane	<6.0		58.8	50.9		ug/Kg	☼	87	51 - 130
Ethylbenzene	<6.0		58.8	37.7		ug/Kg	☼	64	50 - 130
m-Xylene & p-Xylene	<6.0		58.8	37.0		ug/Kg	☼	63	53 - 130
2-Butanone (MEK)	<30	*	235	234		ug/Kg	☼	99	26 - 151
4-Methyl-2-pentanone (MIBK)	<30		235	249		ug/Kg	☼	106	27 - 146
Methylene Chloride	<18		58.8	58.2		ug/Kg	☼	99	52 - 130
o-Xylene	<6.0		58.8	39.4		ug/Kg	☼	67	53 - 130
Styrene	<6.0		58.8	40.0		ug/Kg	☼	68	50 - 130
Tetrachloroethene	<6.0		58.8	33.7		ug/Kg	☼	57	30 - 157
Toluene	<6.0		58.8	41.0		ug/Kg	☼	70	55 - 130
trans-1,2-Dichloroethene	<6.0		58.8	43.0		ug/Kg	☼	73	60 - 130
trans-1,3-Dichloropropene	<6.0		58.8	46.8		ug/Kg	☼	80	47 - 130
Trichloroethene	<6.0		58.8	41.3		ug/Kg	☼	70	41 - 145
Vinyl chloride	<6.0		58.8	40.8		ug/Kg	☼	69	50 - 141
Xylenes, Total	<6.0		118	76.5		ug/Kg	☼	65	51 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*109*		*79 - 123*
Toluene-d8 (Surr)	*96*		*80 - 120*

Lab Sample ID: 400-105845-21 MSD
Matrix: Solid
Analysis Batch: 259439

Client Sample ID: SB-12 0'-3'
Prep Type: Total/NA
Prep Batch: 259489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<6.0		60.0	44.0		ug/Kg	☼	73	53 - 130	3	30
1,1,2,2-Tetrachloroethane	<6.0	*	60.0	59.9		ug/Kg	☼	100	10 - 155	15	57

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-21 MSD
Matrix: Solid
Analysis Batch: 259439

Client Sample ID: SB-12 0'-3'
Prep Type: Total/NA
Prep Batch: 259489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloroethane	<6.0	*	60.0	57.1		ug/Kg	☼	95	49 - 130	8	30
1,1-Dichloroethane	<6.0		60.0	49.7		ug/Kg	☼	83	53 - 130	4	30
1,1-Dichloroethene	<6.0		60.0	45.5		ug/Kg	☼	76	57 - 133	7	30
1,2-Dichlorobenzene	<6.0	F2	60.0	48.6	F2	ug/Kg	☼	81	41 - 130	36	30
1,2-Dichloroethane	<6.0		60.0	58.0		ug/Kg	☼	97	52 - 130	6	30
1,2-Dichloropropane	<6.0		60.0	51.1		ug/Kg	☼	85	52 - 130	6	30
1,3-Dichlorobenzene	<6.0	F2	60.0	45.8	F2	ug/Kg	☼	76	43 - 130	37	31
1,4-Dichlorobenzene	<6.0	F2	60.0	46.1	F2	ug/Kg	☼	77	42 - 130	38	31
2-Hexanone	<30		240	253		ug/Kg	☼	105	16 - 163	17	37
Acetone	<30	F2	240	241	F2	ug/Kg	☼	100	30 - 175	50	31
Benzene	<6.0		60.0	48.0		ug/Kg	☼	80	56 - 130	7	30
Bromoform	<6.0		60.0	54.3		ug/Kg	☼	90	40 - 130	16	30
Bromomethane	<6.0		60.0	53.9		ug/Kg	☼	90	14 - 185	2	44
Carbon disulfide	<6.0		60.0	48.7		ug/Kg	☼	81	56 - 130	22	30
Carbon tetrachloride	<6.0		60.0	46.9		ug/Kg	☼	78	52 - 133	6	30
Chlorobenzene	<6.0		60.0	47.9		ug/Kg	☼	80	55 - 130	19	30
Chlorodibromomethane	<6.0		60.0	57.0		ug/Kg	☼	95	49 - 130	13	30
Chloroethane	<6.0		60.0	41.8		ug/Kg	☼	70	39 - 157	1	55
Chloroform	<6.0		60.0	50.7		ug/Kg	☼	84	54 - 130	4	30
Chloromethane	<6.0		60.0	38.7		ug/Kg	☼	64	37 - 137	1	30
cis-1,2-Dichloroethene	<6.0		60.0	51.8		ug/Kg	☼	86	48 - 130	12	30
cis-1,3-Dichloropropene	<6.0		60.0	55.9		ug/Kg	☼	93	48 - 130	15	30
Dichlorobromomethane	<6.0		60.0	54.1		ug/Kg	☼	90	51 - 130	6	30
Ethylbenzene	<6.0		60.0	43.8		ug/Kg	☼	73	50 - 130	15	30
m-Xylene & p-Xylene	<6.0		60.0	44.4		ug/Kg	☼	74	53 - 130	18	30
2-Butanone (MEK)	<30	*	240	277		ug/Kg	☼	116	26 - 151	17	36
4-Methyl-2-pentanone (MIBK)	<30		240	262		ug/Kg	☼	109	27 - 146	5	32
Methylene Chloride	<18		60.0	57.9		ug/Kg	☼	97	52 - 130	0	30
o-Xylene	<6.0		60.0	46.6		ug/Kg	☼	78	53 - 130	17	30
Styrene	<6.0		60.0	51.4		ug/Kg	☼	86	50 - 130	25	30
Tetrachloroethene	<6.0		60.0	39.2		ug/Kg	☼	65	30 - 157	15	30
Toluene	<6.0		60.0	45.7		ug/Kg	☼	76	55 - 130	11	30
trans-1,2-Dichloroethene	<6.0		60.0	47.6		ug/Kg	☼	79	60 - 130	10	30
trans-1,3-Dichloropropene	<6.0		60.0	57.1		ug/Kg	☼	95	47 - 130	20	30
Trichloroethene	<6.0		60.0	44.9		ug/Kg	☼	75	41 - 145	8	30
Vinyl chloride	<6.0		60.0	40.8		ug/Kg	☼	68	50 - 141	0	30
Xylenes, Total	<6.0		120	91.0		ug/Kg	☼	76	51 - 130	17	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*105*		*79 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-257954/24-A
Matrix: Solid
Analysis Batch: 259086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
1-Methylnaphthalene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2-Chlorophenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2-Methylnaphthalene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2-Methylphenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2-Nitroaniline	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2-Nitrophenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
4-Chloroaniline	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
4-Nitroaniline	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
4-Nitrophenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Acenaphthene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Acenaphthylene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Anthracene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Benzidine	<990		990		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Benzo[a]anthracene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Benzo[a]pyrene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Carbazole	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Chrysene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Dibenzofuran	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Diethyl phthalate	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Dimethyl phthalate	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Fluoranthene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Fluorene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Hexachlorobenzene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Hexachlorobutadiene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-257954/24-A
Matrix: Solid
Analysis Batch: 259086

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257954

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Isophorone	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Naphthalene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Nitrobenzene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Pentachlorophenol	<660		660		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Phenanthrene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Phenol	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Pyrene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1
Dinoseb	<330		330		ug/Kg		05/21/15 07:56	05/29/15 16:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*98*		*37 - 120*	*05/21/15 07:56*	*05/29/15 16:47*	*1*
Terphenyl-d14 (Surr)	*96*		*36 - 134*	*05/21/15 07:56*	*05/29/15 16:47*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*32 - 133*	*05/21/15 07:56*	*05/29/15 16:47*	*1*
2-Fluorobiphenyl	*99*		*44 - 120*	*05/21/15 07:56*	*05/29/15 16:47*	*1*
2-Fluorophenol (Surr)	*88*		*25 - 120*	*05/21/15 07:56*	*05/29/15 16:47*	*1*
Nitrobenzene-d5 (Surr)	*97*		*27 - 120*	*05/21/15 07:56*	*05/29/15 16:47*	*1*

Lab Sample ID: LCS 400-257954/23-A
Matrix: Solid
Analysis Batch: 259086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	843		ug/Kg		84	58 - 120
1-Methylnaphthalene	1000	920		ug/Kg		92	66 - 120
2,4,5-Trichlorophenol	1000	1020		ug/Kg		102	62 - 120
2,4,6-Trichlorophenol	1000	1050		ug/Kg		105	59 - 120
2,4-Dichlorophenol	1000	1020		ug/Kg		102	67 - 120
2,4-Dimethylphenol	1000	1030		ug/Kg		103	65 - 120
2,4-Dinitrophenol	2610	2480		ug/Kg		95	23 - 124
2-Chlorophenol	1000	940		ug/Kg		94	60 - 120
2-Nitrophenol	1000	1010		ug/Kg		101	56 - 120
Acenaphthene	1000	1010		ug/Kg		101	62 - 120
Acenaphthylene	1000	991		ug/Kg		99	61 - 120
Anthracene	1000	1020		ug/Kg		102	68 - 120
Benzo[a]anthracene	1000	1020		ug/Kg		102	67 - 120
Benzo[a]pyrene	1000	1020		ug/Kg		102	64 - 120
Benzo[b]fluoranthene	1000	999		ug/Kg		100	58 - 121
Benzo[g,h,i]perylene	1000	1080		ug/Kg		108	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-257954/23-A
Matrix: Solid
Analysis Batch: 259086

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257954

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	1060		ug/Kg		106	60 - 120
Bis(2-chloroethyl)ether	1000	967		ug/Kg		97	55 - 120
Bis(2-ethylhexyl) phthalate	1000	1030		ug/Kg		103	59 - 136
Butyl benzyl phthalate	1000	1000		ug/Kg		100	55 - 135
Carbazole	1000	1130		ug/Kg		113	69 - 121
Chrysene	1000	1030		ug/Kg		103	65 - 120
Di-n-butyl phthalate	1000	1120		ug/Kg		112	67 - 132
Di-n-octyl phthalate	1000	1040		ug/Kg		104	58 - 132
Dibenz(a,h)anthracene	1000	1080		ug/Kg		108	58 - 130
Dibenzofuran	1000	996		ug/Kg		100	65 - 120
Diethyl phthalate	1000	1040		ug/Kg		104	62 - 124
Dimethyl phthalate	1000	1000		ug/Kg		100	52 - 123
Fluoranthene	1000	1160		ug/Kg		116	67 - 123
Fluorene	1000	1020		ug/Kg		102	64 - 120
Hexachlorobenzene	1000	987		ug/Kg		99	57 - 131
Hexachlorobutadiene	1000	994		ug/Kg		99	56 - 120
Hexachlorocyclopentadiene	1000	1120		ug/Kg		112	1 - 153
Hexachloroethane	1000	885		ug/Kg		89	53 - 120
Indeno[1,2,3-cd]pyrene	1000	1070		ug/Kg		107	55 - 133
Isophorone	1000	1000		ug/Kg		100	63 - 120
N-Nitrosodi-n-propylamine	1000	934		ug/Kg		93	34 - 150
N-Nitrosodimethylamine	1000	857		ug/Kg		86	26 - 140
N-Nitrosodiphenylamine	2000	2060		ug/Kg		103	16 - 160
Naphthalene	1000	949		ug/Kg		95	59 - 120
Nitrobenzene	1000	1010		ug/Kg		101	53 - 125
Pentachlorophenol	2000	1980		ug/Kg		99	30 - 136
Phenanthrene	1000	1030		ug/Kg		103	62 - 130
Phenol	1000	1060		ug/Kg		106	54 - 120
Pyrene	1000	902		ug/Kg		90	57 - 127
1,2,4-Trichlorobenzene	1000	938		ug/Kg		94	62 - 120
1,2-Dichlorobenzene	1000	857		ug/Kg		86	58 - 120
2,4-Dinitrotoluene	1000	1060		ug/Kg		106	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*100*		*37 - 120*
Terphenyl-d14 (Surr)	*95*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*100*		*32 - 133*
2-Fluorobiphenyl	*102*		*44 - 120*
2-Fluorophenol (Surr)	*92*		*25 - 120*
Nitrobenzene-d5 (Surr)	*101*		*27 - 120*

Lab Sample ID: 400-105845-25 MS
Matrix: Solid
Analysis Batch: 259086

Client Sample ID: B-6 0'-4'
Prep Type: Total/NA
Prep Batch: 257954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	<400		1220	729		ug/Kg	☼	60	35 - 120
1-Methylnaphthalene	<400		1220	790		ug/Kg	☼	65	10 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-25 MS | **Client Sample ID: B-6 0'-4'**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 259086 | **Prep Batch: 257954**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	<400		1220	903		ug/Kg	☼	74	34 - 120
2,4,6-Trichlorophenol	<400		1220	947		ug/Kg	☼	77	35 - 120
2,4-Dichlorophenol	<400		1220	891		ug/Kg	☼	73	38 - 120
2,4-Dimethylphenol	<400		1220	867		ug/Kg	☼	71	10 - 150
2,4-Dinitrophenol	<1200		3200	1940		ug/Kg	☼	61	10 - 122
2-Chlorophenol	<400		1220	802		ug/Kg	☼	66	39 - 120
2-Nitrophenol	<400		1220	864		ug/Kg	☼	71	20 - 120
Acenaphthene	<400		1220	891		ug/Kg	☼	73	10 - 150
Acenaphthylene	<400		1220	875		ug/Kg	☼	72	10 - 150
Anthracene	<400		1220	931		ug/Kg	☼	76	10 - 150
Benzo[a]anthracene	<400		1220	986		ug/Kg	☼	81	10 - 150
Benzo[a]pyrene	<400		1220	992		ug/Kg	☼	81	10 - 150
Benzo[b]fluoranthene	<400		1220	1070		ug/Kg	☼	85	10 - 150
Benzo[g,h,i]perylene	<400		1220	596		ug/Kg	☼	49	10 - 150
Benzo[k]fluoranthene	<400		1220	1070		ug/Kg	☼	87	10 - 150
Bis(2-chloroethoxy)methane	<400		1220	906		ug/Kg	☼	74	25 - 120
Bis(2-chloroethyl)ether	<400		1220	827		ug/Kg	☼	68	29 - 120
Bis(2-ethylhexyl) phthalate	<400		1220	974		ug/Kg	☼	80	10 - 150
Butyl benzyl phthalate	<400		1220	961		ug/Kg	☼	79	10 - 150
Carbazole	<400		1220	1070		ug/Kg	☼	88	10 - 150
Chrysene	<400		1220	991		ug/Kg	☼	81	10 - 150
Di-n-butyl phthalate	<400		1220	1050		ug/Kg	☼	86	10 - 150
Di-n-octyl phthalate	<400		1220	928		ug/Kg	☼	76	10 - 150
Dibenz(a,h)anthracene	<400		1220	664		ug/Kg	☼	54	32 - 120
Dibenzofuran	<400		1220	879		ug/Kg	☼	72	10 - 150
Diethyl phthalate	<400		1220	942		ug/Kg	☼	77	10 - 150
Dimethyl phthalate	<400		1220	903		ug/Kg	☼	74	40 - 120
Fluoranthene	<400		1220	1130		ug/Kg	☼	92	10 - 150
Fluorene	<400		1220	917		ug/Kg	☼	75	10 - 150
Hexachlorobenzene	<400		1220	906		ug/Kg	☼	74	42 - 120
Hexachlorobutadiene	<400		1220	848		ug/Kg	☼	69	10 - 150
Hexachlorocyclopentadiene	<400		1220	893		ug/Kg	☼	73	10 - 150
Hexachloroethane	<400		1220	754		ug/Kg	☼	62	10 - 120
Indeno[1,2,3-cd]pyrene	<400		1220	646		ug/Kg	☼	53	10 - 150
Isophorone	<400		1220	863		ug/Kg	☼	71	36 - 121
N-Nitrosodi-n-propylamine	<400		1220	820		ug/Kg	☼	67	10 - 145
N-Nitrosodimethylamine	<400		1220	715		ug/Kg	☼	58	17 - 120
N-Nitrosodiphenylamine	<400		2450	1870		ug/Kg	☼	77	10 - 150
Naphthalene	<400		1220	816		ug/Kg	☼	67	10 - 150
Nitrobenzene	<400		1220	877		ug/Kg	☼	72	33 - 120
Pentachlorophenol	<800		2450	1820		ug/Kg	☼	74	10 - 150
Phenanthrene	<400		1220	959		ug/Kg	☼	78	10 - 150
Phenol	<400		1220	889		ug/Kg	☼	73	10 - 150
Pyrene	<400		1220	905		ug/Kg	☼	74	10 - 150
1,2,4-Trichlorobenzene	<400		1220	795		ug/Kg	☼	65	10 - 150
1,2-Dichlorobenzene	<400		1220	738		ug/Kg	☼	60	10 - 150
2,4-Dinitrotoluene	<400		1220	960		ug/Kg	☼	78	40 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-25 MS
Matrix: Solid
Analysis Batch: 259086

Client Sample ID: B-6 0'-4'
Prep Type: Total/NA
Prep Batch: 257954

Surrogate	MS %Recovery	MS Qualifier	Limits
Phenol-d5 (Surr)	67		37 - 120
Terphenyl-d14 (Surr)	73		36 - 134
2,4,6-Tribromophenol (Surr)	73		32 - 133
2-Fluorobiphenyl	71		44 - 120
2-Fluorophenol (Surr)	61		25 - 120
Nitrobenzene-d5 (Surr)	68		27 - 120

Lab Sample ID: 400-105845-25 MSD
Matrix: Solid
Analysis Batch: 259086

Client Sample ID: B-6 0'-4'
Prep Type: Total/NA
Prep Batch: 257954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<400		1220	735		ug/Kg	☼	60	35 - 120	1	33
1-Methylnaphthalene	<400		1220	858		ug/Kg	☼	70	10 - 150	8	29
2,4,5-Trichlorophenol	<400		1220	947		ug/Kg	☼	77	34 - 120	5	35
2,4,6-Trichlorophenol	<400		1220	966		ug/Kg	☼	79	35 - 120	2	30
2,4-Dichlorophenol	<400		1220	931		ug/Kg	☼	76	38 - 120	4	29
2,4-Dimethylphenol	<400		1220	897		ug/Kg	☼	73	10 - 150	3	38
2,4-Dinitrophenol	<1200		3200	2200		ug/Kg	☼	69	10 - 122	13	41
2-Chlorophenol	<400		1220	823		ug/Kg	☼	67	39 - 120	3	31
2-Nitrophenol	<400		1220	884		ug/Kg	☼	72	20 - 120	2	41
Acenaphthene	<400		1220	923		ug/Kg	☼	75	10 - 150	3	36
Acenaphthylene	<400		1220	894		ug/Kg	☼	73	10 - 150	2	29
Anthracene	<400		1220	927		ug/Kg	☼	76	10 - 150	0	30
Benzo[a]anthracene	<400		1220	958		ug/Kg	☼	78	10 - 150	3	33
Benzo[a]pyrene	<400		1220	982		ug/Kg	☼	80	10 - 150	1	30
Benzo[b]fluoranthene	<400		1220	1110		ug/Kg	☼	88	10 - 150	3	31
Benzo[g,h,i]perylene	<400		1220	576		ug/Kg	☼	47	10 - 150	3	30
Benzo[k]fluoranthene	<400		1220	1150		ug/Kg	☼	94	10 - 150	7	29
Bis(2-chloroethoxy)methane	<400		1220	920		ug/Kg	☼	75	25 - 120	2	65
Bis(2-chloroethyl)ether	<400		1220	855		ug/Kg	☼	70	29 - 120	3	33
Bis(2-ethylhexyl) phthalate	<400		1220	937		ug/Kg	☼	77	10 - 150	4	36
Butyl benzyl phthalate	<400		1220	944		ug/Kg	☼	77	10 - 150	2	53
Carbazole	<400		1220	1050		ug/Kg	☼	86	10 - 150	2	28
Chrysene	<400		1220	968		ug/Kg	☼	79	10 - 150	2	33
Di-n-butyl phthalate	<400		1220	1040		ug/Kg	☼	85	10 - 150	1	36
Di-n-octyl phthalate	<400		1220	914		ug/Kg	☼	75	10 - 150	2	42
Dibenz(a,h)anthracene	<400		1220	628		ug/Kg	☼	51	32 - 120	6	30
Dibenzofuran	<400		1220	934		ug/Kg	☼	76	10 - 150	6	30
Diethyl phthalate	<400		1220	983		ug/Kg	☼	80	10 - 150	4	30
Dimethyl phthalate	<400		1220	944		ug/Kg	☼	77	40 - 120	4	28
Fluoranthene	<400		1220	1080		ug/Kg	☼	88	10 - 150	5	42
Fluorene	<400		1220	954		ug/Kg	☼	78	10 - 150	4	36
Hexachlorobenzene	<400		1220	917		ug/Kg	☼	75	42 - 120	1	30
Hexachlorobutadiene	<400		1220	829		ug/Kg	☼	68	10 - 150	2	31
Hexachlorocyclopentadiene	<400		1220	840		ug/Kg	☼	69	10 - 150	6	38
Hexachloroethane	<400		1220	752		ug/Kg	☼	61	10 - 120	0	38
Indeno[1,2,3-cd]pyrene	<400		1220	615		ug/Kg	☼	50	10 - 150	5	31

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-25 MSD
Matrix: Solid
Analysis Batch: 259086

Client Sample ID: B-6 0'-4'
Prep Type: Total/NA
Prep Batch: 257954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isophorone	<400		1220	907		ug/Kg	☼	74	36 - 121	5	34
N-Nitrosodi-n-propylamine	<400		1220	873		ug/Kg	☼	71	10 - 145	6	44
N-Nitrosodimethylamine	<400		1220	726		ug/Kg	☼	59	17 - 120	1	34
N-Nitrosodiphenylamine	<400		2450	1850		ug/Kg	☼	76	10 - 150	1	35
Naphthalene	<400		1220	849		ug/Kg	☼	69	10 - 150	4	33
Nitrobenzene	<400		1220	859		ug/Kg	☼	70	33 - 120	2	29
Pentachlorophenol	<800		2450	1870		ug/Kg	☼	76	10 - 150	3	45
Phenanthrene	<400		1220	957		ug/Kg	☼	78	10 - 150	0	34
Phenol	<400		1220	926		ug/Kg	☼	76	10 - 150	4	35
Pyrene	<400		1220	883		ug/Kg	☼	72	10 - 150	2	45
1,2,4-Trichlorobenzene	<400		1220	819		ug/Kg	☼	67	10 - 150	3	30
1,2-Dichlorobenzene	<400		1220	753		ug/Kg	☼	61	10 - 150	2	31
2,4-Dinitrotoluene	<400		1220	1010		ug/Kg	☼	82	40 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*77*		*37 - 120*
Terphenyl-d14 (Surr)	*78*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*83*		*32 - 133*
2-Fluorobiphenyl	*79*		*44 - 120*
2-Fluorophenol (Surr)	*67*		*25 - 120*
Nitrobenzene-d5 (Surr)	*73*		*27 - 120*

Lab Sample ID: MB 400-257958/16-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1-Methylnaphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Chlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Methylnaphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Nitroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Nitrophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chloroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Nitroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-257958/16-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Acenaphthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Acenaphthylene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzidine	<990		990		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[a]anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[a]pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Carbazole	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Chrysene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dibenzofuran	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Diethyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dimethyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Fluorene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorobutadiene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachloroethane	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Isophorone	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Naphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Nitrobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Pentachlorophenol	<660		660		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Phenanthrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Phenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dinoseb	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*92*		*37 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
Terphenyl-d14 (Surr)	*105*		*36 - 134*	*05/21/15 08:04*	*05/27/15 18:54*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-257958/16-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257958

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	78		32 - 133	05/21/15 08:04	05/27/15 18:54	1
2-Fluorobiphenyl	90		44 - 120	05/21/15 08:04	05/27/15 18:54	1
2-Fluorophenol (Surr)	86		25 - 120	05/21/15 08:04	05/27/15 18:54	1
Nitrobenzene-d5 (Surr)	85		27 - 120	05/21/15 08:04	05/27/15 18:54	1

Lab Sample ID: LCS 400-257958/15-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	880		ug/Kg		88	58 - 120
1-Methylnaphthalene	1000	958		ug/Kg		96	66 - 120
2,4,5-Trichlorophenol	1000	906		ug/Kg		91	62 - 120
2,4,6-Trichlorophenol	1000	913		ug/Kg		91	59 - 120
2,4-Dichlorophenol	1000	961		ug/Kg		96	67 - 120
2,4-Dimethylphenol	1000	928		ug/Kg		93	65 - 120
2,4-Dinitrophenol	2610	1780		ug/Kg		68	23 - 124
2-Chlorophenol	1000	913		ug/Kg		91	60 - 120
2-Nitrophenol	1000	935		ug/Kg		94	56 - 120
Acenaphthene	1000	917		ug/Kg		92	62 - 120
Acenaphthylene	1000	949		ug/Kg		95	61 - 120
Anthracene	1000	951		ug/Kg		95	68 - 120
Benzo[a]anthracene	1000	943		ug/Kg		94	67 - 120
Benzo[a]pyrene	1000	976		ug/Kg		98	64 - 120
Benzo[b]fluoranthene	1000	1050		ug/Kg		105	58 - 121
Benzo[g,h,i]perylene	1000	885		ug/Kg		89	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123
Bis(2-chloroethoxy)methane	1000	908		ug/Kg		91	60 - 120
Bis(2-chloroethyl)ether	1000	893		ug/Kg		89	55 - 120
Bis(2-ethylhexyl) phthalate	1000	961		ug/Kg		96	59 - 136
Butyl benzyl phthalate	1000	1010		ug/Kg		101	55 - 135
Carbazole	1000	998		ug/Kg		100	69 - 121
Chrysene	1000	942		ug/Kg		94	65 - 120
Di-n-butyl phthalate	1000	946		ug/Kg		95	67 - 132
Di-n-octyl phthalate	1000	924		ug/Kg		92	58 - 132
Dibenz(a,h)anthracene	1000	938		ug/Kg		94	58 - 130
Dibenzofuran	1000	935		ug/Kg		94	65 - 120
Diethyl phthalate	1000	941		ug/Kg		94	62 - 124
Dimethyl phthalate	1000	937		ug/Kg		94	52 - 123
Fluoranthene	1000	894		ug/Kg		89	67 - 123
Fluorene	1000	957		ug/Kg		96	64 - 120
Hexachlorobenzene	1000	934		ug/Kg		93	57 - 131
Hexachlorobutadiene	1000	859		ug/Kg		86	56 - 120
Hexachlorocyclopentadiene	1000	623		ug/Kg		62	1 - 153
Hexachloroethane	1000	899		ug/Kg		90	53 - 120
Indeno[1,2,3-cd]pyrene	1000	930		ug/Kg		93	55 - 133
Isophorone	1000	922		ug/Kg		92	63 - 120
N-Nitrosodi-n-propylamine	1000	974		ug/Kg		97	34 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-257958/15-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	1000	900		ug/Kg		90	26 - 140
N-Nitrosodiphenylamine	3170	2990		ug/Kg		94	16 - 160
Naphthalene	1000	894		ug/Kg		89	59 - 120
Nitrobenzene	1000	886		ug/Kg		89	53 - 125
Pentachlorophenol	2000	1840		ug/Kg		92	30 - 136
Phenanthrene	1000	934		ug/Kg		93	62 - 130
Phenol	1000	905		ug/Kg		91	54 - 120
Pyrene	1000	980		ug/Kg		98	57 - 127
1,2,4-Trichlorobenzene	1000	886		ug/Kg		89	62 - 120
1,2-Dichlorobenzene	1000	884		ug/Kg		88	58 - 120
2,4-Dinitrotoluene	1000	962		ug/Kg		96	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*105*		*37 - 120*
Terphenyl-d14 (Surr)	*110*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*109*		*32 - 133*
2-Fluorobiphenyl	*101*		*44 - 120*
2-Fluorophenol (Surr)	*100*		*25 - 120*
Nitrobenzene-d5 (Surr)	*100*		*27 - 120*

Lab Sample ID: 400-105845-34 MS
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: SB-19 0'-11'
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	<390		1200	851		ug/Kg	☼	71	35 - 120
1-Methylnaphthalene	<390		1200	993		ug/Kg	☼	83	10 - 150
2,4,5-Trichlorophenol	<390		1200	1000		ug/Kg	☼	83	34 - 120
2,4,6-Trichlorophenol	<390		1200	997		ug/Kg	☼	83	35 - 120
2,4-Dichlorophenol	<390		1200	1010		ug/Kg	☼	84	38 - 120
2,4-Dimethylphenol	<390		1200	973		ug/Kg	☼	81	10 - 150
2,4-Dinitrophenol	<1200		3130	2040		ug/Kg	☼	65	10 - 122
2-Chlorophenol	<390		1200	925		ug/Kg	☼	77	39 - 120
2-Nitrophenol	<390		1200	947		ug/Kg	☼	79	20 - 120
Acenaphthene	<390		1200	979		ug/Kg	☼	82	10 - 150
Acenaphthylene	<390		1200	1010		ug/Kg	☼	84	10 - 150
Anthracene	<390		1200	1020		ug/Kg	☼	85	10 - 150
Benzo[a]anthracene	<390		1200	1010		ug/Kg	☼	84	10 - 150
Benzo[a]pyrene	<390		1200	1060		ug/Kg	☼	89	10 - 150
Benzo[b]fluoranthene	<390		1200	1150		ug/Kg	☼	96	10 - 150
Benzo[g,h,i]perylene	<390		1200	940		ug/Kg	☼	78	10 - 150
Benzo[k]fluoranthene	<390		1200	1090		ug/Kg	☼	91	10 - 150
Bis(2-chloroethoxy)methane	<390		1200	962		ug/Kg	☼	80	25 - 120
Bis(2-chloroethyl)ether	<390		1200	884		ug/Kg	☼	74	29 - 120
Bis(2-ethylhexyl) phthalate	<390		1200	1050		ug/Kg	☼	88	10 - 150
Butyl benzyl phthalate	<390		1200	1120		ug/Kg	☼	93	10 - 150
Carbazole	<390		1200	1060		ug/Kg	☼	88	10 - 150
Chrysene	<390		1200	1010		ug/Kg	☼	85	10 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-34 MS
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: SB-19 0'-11'
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Di-n-butyl phthalate	<390		1200	1010		ug/Kg	☼	84	10 - 150
Di-n-octyl phthalate	<390		1200	1010		ug/Kg	☼	85	10 - 150
Dibenz(a,h)anthracene	<390		1200	987		ug/Kg	☼	82	32 - 120
Dibenzofuran	<390		1200	996		ug/Kg	☼	83	10 - 150
Diethyl phthalate	<390		1200	1010		ug/Kg	☼	84	10 - 150
Dimethyl phthalate	<390		1200	1020		ug/Kg	☼	85	40 - 120
Fluoranthene	<390		1200	963		ug/Kg	☼	80	10 - 150
Fluorene	<390		1200	1030		ug/Kg	☼	86	10 - 150
Hexachlorobenzene	<390		1200	998		ug/Kg	☼	83	42 - 120
Hexachlorobutadiene	<390		1200	841		ug/Kg	☼	70	10 - 150
Hexachlorocyclopentadiene	<390		1200	692		ug/Kg	☼	58	10 - 150
Hexachloroethane	<390		1200	858		ug/Kg	☼	72	10 - 120
Indeno[1,2,3-cd]pyrene	<390		1200	969		ug/Kg	☼	81	10 - 150
Isophorone	<390		1200	980		ug/Kg	☼	82	36 - 121
N-Nitrosodi-n-propylamine	<390		1200	1010		ug/Kg	☼	84	10 - 145
N-Nitrosodimethylamine	<390		1200	912		ug/Kg	☼	76	17 - 120
N-Nitrosodiphenylamine	<390		3800	3270		ug/Kg	☼	86	10 - 150
Naphthalene	<390		1200	897		ug/Kg	☼	75	10 - 150
Nitrobenzene	<390		1200	894		ug/Kg	☼	75	33 - 120
Pentachlorophenol	<790		2400	2000		ug/Kg	☼	83	10 - 150
Phenanthrene	<390		1200	1010		ug/Kg	☼	84	10 - 150
Phenol	<390		1200	936		ug/Kg	☼	78	10 - 150
Pyrene	<390		1200	1080		ug/Kg	☼	90	10 - 150
1,2,4-Trichlorobenzene	<390		1200	880		ug/Kg	☼	73	10 - 150
1,2-Dichlorobenzene	<390		1200	858		ug/Kg	☼	72	10 - 150
2,4-Dinitrotoluene	<390		1200	1040		ug/Kg	☼	87	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*37 - 120*
Terphenyl-d14 (Surr)	*99*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*95*		*32 - 133*
2-Fluorobiphenyl	*88*		*44 - 120*
2-Fluorophenol (Surr)	*83*		*25 - 120*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*

Lab Sample ID: 400-105845-34 MSD
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: SB-19 0'-11'
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<390		1200	906		ug/Kg	☼	76	35 - 120	6	33
1-Methylnaphthalene	<390		1200	1020		ug/Kg	☼	86	10 - 150	3	29
2,4,5-Trichlorophenol	<390		1200	991		ug/Kg	☼	83	34 - 120	1	35
2,4,6-Trichlorophenol	<390		1200	988		ug/Kg	☼	83	35 - 120	1	30
2,4-Dichlorophenol	<390		1200	1020		ug/Kg	☼	85	38 - 120	1	29
2,4-Dimethylphenol	<390		1200	987		ug/Kg	☼	82	10 - 150	1	38
2,4-Dinitrophenol	<1200		3130	2540		ug/Kg	☼	81	10 - 122	22	41
2-Chlorophenol	<390		1200	959		ug/Kg	☼	80	39 - 120	4	31

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-34 MSD
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: SB-19 0'-11'
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Nitrophenol	<390		1200	982		ug/Kg	☼	82	20 - 120	4	41
Acenaphthene	<390		1200	983		ug/Kg	☼	82	10 - 150	0	36
Acenaphthylene	<390		1200	1010		ug/Kg	☼	85	10 - 150	1	29
Anthracene	<390		1200	1040		ug/Kg	☼	87	10 - 150	2	30
Benzo[a]anthracene	<390		1200	1020		ug/Kg	☼	85	10 - 150	2	33
Benzo[a]pyrene	<390		1200	1060		ug/Kg	☼	89	10 - 150	0	30
Benzo[b]fluoranthene	<390		1200	1210		ug/Kg	☼	101	10 - 150	5	31
Benzo[g,h,i]perylene	<390		1200	850		ug/Kg	☼	71	10 - 150	10	30
Benzo[k]fluoranthene	<390		1200	1100		ug/Kg	☼	92	10 - 150	1	29
Bis(2-chloroethoxy)methane	<390		1200	983		ug/Kg	☼	82	25 - 120	2	65
Bis(2-chloroethyl)ether	<390		1200	924		ug/Kg	☼	77	29 - 120	4	33
Bis(2-ethylhexyl) phthalate	<390		1200	1010		ug/Kg	☼	85	10 - 150	4	36
Butyl benzyl phthalate	<390		1200	1040		ug/Kg	☼	87	10 - 150	7	53
Carbazole	<390		1200	1130		ug/Kg	☼	95	10 - 150	7	28
Chrysene	<390		1200	1030		ug/Kg	☼	86	10 - 150	1	33
Di-n-butyl phthalate	<390		1200	1040		ug/Kg	☼	87	10 - 150	3	36
Di-n-octyl phthalate	<390		1200	1030		ug/Kg	☼	86	10 - 150	2	42
Dibenz(a,h)anthracene	<390		1200	917		ug/Kg	☼	77	32 - 120	7	30
Dibenzofuran	<390		1200	1020		ug/Kg	☼	85	10 - 150	2	30
Diethyl phthalate	<390		1200	1040		ug/Kg	☼	87	10 - 150	3	30
Dimethyl phthalate	<390		1200	1030		ug/Kg	☼	86	40 - 120	1	28
Fluoranthene	<390		1200	1040		ug/Kg	☼	87	10 - 150	7	42
Fluorene	<390		1200	1050		ug/Kg	☼	88	10 - 150	2	36
Hexachlorobenzene	<390		1200	981		ug/Kg	☼	82	42 - 120	2	30
Hexachlorobutadiene	<390		1200	881		ug/Kg	☼	74	10 - 150	5	31
Hexachlorocyclopentadiene	<390		1200	745		ug/Kg	☼	62	10 - 150	7	38
Hexachloroethane	<390		1200	916		ug/Kg	☼	77	10 - 120	6	38
Indeno[1,2,3-cd]pyrene	<390		1200	915		ug/Kg	☼	76	10 - 150	6	31
Isophorone	<390		1200	990		ug/Kg	☼	83	36 - 121	1	34
N-Nitrosodi-n-propylamine	<390		1200	1040		ug/Kg	☼	87	10 - 145	3	44
N-Nitrosodimethylamine	<390		1200	947		ug/Kg	☼	79	17 - 120	4	34
N-Nitrosodiphenylamine	<390		3800	3160		ug/Kg	☼	83	10 - 150	4	35
Naphthalene	<390		1200	930		ug/Kg	☼	78	10 - 150	4	33
Nitrobenzene	<390		1200	927		ug/Kg	☼	77	33 - 120	4	29
Pentachlorophenol	<790		2390	2110		ug/Kg	☼	88	10 - 150	5	45
Phenanthrene	<390		1200	1020		ug/Kg	☼	85	10 - 150	1	34
Phenol	<390		1200	960		ug/Kg	☼	80	10 - 150	3	35
Pyrene	<390		1200	983		ug/Kg	☼	82	10 - 150	9	45
1,2,4-Trichlorobenzene	<390		1200	916		ug/Kg	☼	77	10 - 150	4	30
1,2-Dichlorobenzene	<390		1200	905		ug/Kg	☼	76	10 - 150	5	31
2,4-Dinitrotoluene	<390		1200	1090		ug/Kg	☼	91	40 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*87*		*37 - 120*
Terphenyl-d14 (Surr)	*87*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*97*		*32 - 133*
2-Fluorobiphenyl	*83*		*44 - 120*
2-Fluorophenol (Surr)	*81*		*25 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105845-34 MSD
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: SB-19 0'-11'
Prep Type: Total/NA
Prep Batch: 257958

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	81		27 - 120

Lab Sample ID: MB 400-258202/1-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4,5-Trichlorophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4,6-Trichlorophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4-Dichlorophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4-Dimethylphenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4-Dinitrophenol	<30		30		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Chlorophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Methylnaphthalene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Methylphenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Nitroaniline	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2-Nitrophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
3 & 4 Methylphenol	<20		20		ug/L		05/22/15 12:59	05/27/15 15:54	1
3,3'-Dichlorobenzidine	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Bromophenyl phenyl ether	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Chloro-3-methylphenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Chloroaniline	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Nitroaniline	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
4-Nitrophenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Acenaphthene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Acenaphthylene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Anthracene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzidine	<25		25		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[a]anthracene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[a]pyrene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[b]fluoranthene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[g,h,i]perylene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Benzo[k]fluoranthene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Bis(2-chloroethyl)ether	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Butyl benzyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Carbazole	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Chrysene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Di-n-butyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Di-n-octyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Dibenz(a,h)anthracene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Dibenzofuran	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Diethyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Dimethyl phthalate	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258202/1-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258202

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Fluorene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Hexachlorobenzene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Hexachlorocyclopentadiene	<20		20		ug/L		05/22/15 12:59	05/27/15 15:54	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Isophorone	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
N-Nitrosodimethylamine	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
N-Nitrosodiphenylamine	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Naphthalene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Nitrobenzene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Pentachlorophenol	<20		20		ug/L		05/22/15 12:59	05/27/15 15:54	1
Phenanthrene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Phenol	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Pyrene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,4-Dinitrotoluene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
2,6-Dinitrotoluene	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1
Dinoseb	<10		10		ug/L		05/22/15 12:59	05/27/15 15:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*95*		*10 - 120*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
Terphenyl-d14 (Surr)	*139*	*X*	*53 - 125*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 135*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
2-Fluorobiphenyl	*102*		*34 - 120*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
2-Fluorophenol (Surr)	*87*		*10 - 120*	*05/22/15 12:59*	*05/27/15 15:54*	*1*
Nitrobenzene-d5 (Surr)	*116*		*27 - 120*	*05/22/15 12:59*	*05/27/15 15:54*	*1*

Lab Sample ID: LCS 400-258202/2-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1-Methylnaphthalene	30.0	20.9		ug/L		70	59 - 120
2,4,5-Trichlorophenol	30.0	22.1		ug/L		74	53 - 130
2,4,6-Trichlorophenol	30.0	21.8		ug/L		73	52 - 131
2,4-Dichlorophenol	30.0	21.5		ug/L		72	52 - 125
2,4-Dimethylphenol	30.0	21.0		ug/L		70	52 - 121
2,4-Dinitrophenol	78.4	43.6		ug/L		56	22 - 146
2-Chlorophenol	30.0	19.8		ug/L		66	45 - 120
2-Nitrophenol	30.0	21.0		ug/L		70	47 - 129
Acenaphthene	30.0	21.6		ug/L		72	57 - 125
Acenaphthylene	30.0	22.0		ug/L		73	59 - 125
Anthracene	30.0	23.3		ug/L		78	65 - 128
Benzo[a]anthracene	30.0	23.4		ug/L		78	63 - 126
Benzo[a]pyrene	30.0	24.3		ug/L		81	61 - 125
Benzo[b]fluoranthene	30.0	24.7		ug/L		82	49 - 140
Benzo[g,h,i]perylene	30.0	21.5		ug/L		72	51 - 149
Benzo[k]fluoranthene	30.0	25.7		ug/L		86	56 - 138

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258202/2-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258202

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	30.0	21.1		ug/L		70	54 - 123
Bis(2-chloroethyl)ether	30.0	20.7		ug/L		69	47 - 120
Bis(2-ethylhexyl) phthalate	30.0	24.9		ug/L		83	62 - 140
Butyl benzyl phthalate	30.0	25.5		ug/L		85	51 - 150
Carbazole	30.0	24.9		ug/L		83	57 - 136
Chrysene	30.0	23.7		ug/L		79	60 - 126
Di-n-butyl phthalate	30.0	23.4		ug/L		78	59 - 144
Di-n-octyl phthalate	30.0	24.2		ug/L		81	55 - 140
Dibenz(a,h)anthracene	30.0	22.4		ug/L		75	57 - 133
Dibenzofuran	30.0	22.0		ug/L		73	62 - 124
Diethyl phthalate	30.0	23.1		ug/L		77	55 - 140
Dimethyl phthalate	30.0	22.5		ug/L		75	50 - 133
Fluoranthene	30.0	22.6		ug/L		75	66 - 131
Fluorene	30.0	22.8		ug/L		76	60 - 132
Hexachlorobenzene	30.0	21.6		ug/L		72	60 - 138
Hexachlorocyclopentadiene	30.0	9.06	J	ug/L		30	1 - 139
Indeno[1,2,3-cd]pyrene	30.0	22.6		ug/L		75	55 - 135
Isophorone	30.0	22.1		ug/L		74	57 - 122
N-Nitrosodi-n-propylamine	30.0	23.5		ug/L		78	41 - 143
N-Nitrosodimethylamine	30.0	21.0		ug/L		70	21 - 134
N-Nitrosodiphenylamine	60.0	47.0		ug/L		78	10 - 185
Naphthalene	30.0	18.7		ug/L		62	55 - 125
Nitrobenzene	30.0	21.1		ug/L		70	52 - 128
Pentachlorophenol	60.0	46.2		ug/L		77	38 - 138
Phenanthrene	30.0	22.7		ug/L		76	64 - 133
Phenol	30.0	17.2		ug/L		57	37 - 120
Pyrene	30.0	24.4		ug/L		81	55 - 142
2,4-Dinitrotoluene	30.0	23.9		ug/L		80	54 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*67*		*10 - 120*
Terphenyl-d14 (Surr)	*91*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*89*		*15 - 135*
2-Fluorobiphenyl	*74*		*34 - 120*
2-Fluorophenol (Surr)	*61*		*10 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Lab Sample ID: LCSD 400-258202/3-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258202

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1-Methylnaphthalene	30.0	28.2		ug/L		94	59 - 120	30	30
2,4,5-Trichlorophenol	30.0	29.2		ug/L		97	53 - 130	28	30
2,4,6-Trichlorophenol	30.0	29.5		ug/L		98	52 - 131	30	30
2,4-Dichlorophenol	30.0	29.1		ug/L		97	52 - 125	30	30
2,4-Dimethylphenol	30.0	28.6	*	ug/L		95	52 - 121	31	30
2,4-Dinitrophenol	78.4	57.0		ug/L		73	22 - 146	27	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258202/3-A
Matrix: Water
Analysis Batch: 258565

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258202

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Chlorophenol			30.0	26.5		ug/L		88	45 - 120	29	30
2-Nitrophenol			30.0	27.6		ug/L		92	47 - 129	27	30
Acenaphthene			30.0	29.2		ug/L		97	57 - 125	30	30
Acenaphthylene			30.0	30.0	*	ug/L		100	59 - 125	31	30
Anthracene			30.0	31.5		ug/L		105	65 - 128	30	30
Benzo[a]anthracene			30.0	31.3		ug/L		104	63 - 126	29	30
Benzo[a]pyrene			30.0	32.4		ug/L		108	61 - 125	29	30
Benzo[b]fluoranthene			30.0	34.1	*	ug/L		114	49 - 140	32	30
Benzo[g,h,i]perylene			30.0	28.2		ug/L		94	51 - 149	27	30
Benzo[k]fluoranthene			30.0	33.3		ug/L		111	56 - 138	26	30
Bis(2-chloroethoxy)methane			30.0	28.5		ug/L		95	54 - 123	30	30
Bis(2-chloroethyl)ether			30.0	28.0		ug/L		93	47 - 120	30	30
Bis(2-ethylhexyl) phthalate			30.0	33.6		ug/L		112	62 - 140	30	30
Butyl benzyl phthalate			30.0	34.3		ug/L		114	51 - 150	29	30
Carbazole			30.0	33.3		ug/L		111	57 - 136	29	30
Chrysene			30.0	31.4		ug/L		105	60 - 126	28	30
Di-n-butyl phthalate			30.0	31.7		ug/L		106	59 - 144	30	30
Di-n-octyl phthalate			30.0	32.4		ug/L		108	55 - 140	29	30
Dibenz(a,h)anthracene			30.0	29.7		ug/L		99	57 - 133	28	30
Dibenzofuran			30.0	29.9	*	ug/L		100	62 - 124	31	30
Diethyl phthalate			30.0	30.9		ug/L		103	55 - 140	29	30
Dimethyl phthalate			30.0	30.2		ug/L		101	50 - 133	29	30
Fluoranthene			30.0	30.3		ug/L		101	66 - 131	29	30
Fluorene			30.0	30.7		ug/L		102	60 - 132	30	30
Hexachlorobenzene			30.0	30.6	*	ug/L		102	60 - 138	34	30
Hexachlorocyclopentadiene			30.0	12.5	J *	ug/L		42	1 - 139	32	30
Indeno[1,2,3-cd]pyrene			30.0	29.4		ug/L		98	55 - 135	26	30
Isophorone			30.0	29.8		ug/L		99	57 - 122	30	30
N-Nitrosodi-n-propylamine			30.0	31.3		ug/L		104	41 - 143	29	30
N-Nitrosodimethylamine			30.0	27.8		ug/L		93	21 - 134	28	30
N-Nitrosodiphenylamine			60.0	63.7		ug/L		106	10 - 185	30	30
Naphthalene			30.0	25.1		ug/L		84	55 - 125	29	30
Nitrobenzene			30.0	27.9		ug/L		93	52 - 128	28	30
Pentachlorophenol			60.0	61.3		ug/L		102	38 - 138	28	30
Phenanthrene			30.0	30.7		ug/L		102	64 - 133	30	30
Phenol			30.0	23.8	*	ug/L		79	37 - 120	32	30
Pyrene			30.0	33.0		ug/L		110	55 - 142	30	30
2,4-Dinitrotoluene			30.0	31.8		ug/L		106	54 - 141	28	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*10 - 120*
Terphenyl-d14 (Surr)	*117*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*113*		*15 - 135*
2-Fluorobiphenyl	*100*		*34 - 120*
2-Fluorophenol (Surr)	*79*		*10 - 120*
Nitrobenzene-d5 (Surr)	*99*		*27 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259035/1-A
Matrix: Water
Analysis Batch: 259300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
1,4-Dichlorobenzene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
Hexachlorobutadiene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
Hexachloroethane	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
1,2,4-Trichlorobenzene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1
1,2-Dichlorobenzene	<10		10		ug/L		05/29/15 11:19	06/01/15 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*88*		*10 - 120*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
Terphenyl-d14 (Surr)	*133*	*X*	*53 - 125*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*15 - 135*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
2-Fluorobiphenyl	*96*		*34 - 120*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
2-Fluorophenol (Surr)	*66*		*10 - 120*	*05/29/15 11:19*	*06/01/15 11:39*	*1*
Nitrobenzene-d5 (Surr)	*98*		*27 - 120*	*05/29/15 11:19*	*06/01/15 11:39*	*1*

Lab Sample ID: LCS 400-259035/2-A
Matrix: Water
Analysis Batch: 259300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259035

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,4-Dichlorobenzene			30.0	20.5		ug/L		68	51 - 120		
Hexachlorobutadiene			30.0	21.7		ug/L		72	48 - 126		
Hexachloroethane			30.0	17.3		ug/L		58	46 - 121		
1,2,4-Trichlorobenzene			30.0	23.5		ug/L		78	57 - 120		
1,2-Dichlorobenzene			30.0	21.6		ug/L		72	53 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*81*		*10 - 120*
Terphenyl-d14 (Surr)	*103*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*108*		*15 - 135*
2-Fluorobiphenyl	*99*		*34 - 120*
2-Fluorophenol (Surr)	*70*		*10 - 120*
Nitrobenzene-d5 (Surr)	*94*		*27 - 120*

Lab Sample ID: LCSD 400-259035/3-A
Matrix: Water
Analysis Batch: 259300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259035

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene			30.0	20.1		ug/L		67	51 - 120	2	30
Hexachlorobutadiene			30.0	21.6		ug/L		72	48 - 126	1	30
Hexachloroethane			30.0	17.2		ug/L		57	46 - 121	1	30
1,2,4-Trichlorobenzene			30.0	23.5		ug/L		78	57 - 120	0	30
1,2-Dichlorobenzene			30.0	21.3		ug/L		71	53 - 120	2	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*74*		*10 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-259035/3-A
Matrix: Water
Analysis Batch: 259300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 259035

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*102*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*104*		*15 - 135*
2-Fluorobiphenyl	*98*		*34 - 120*
2-Fluorophenol (Surr)	*68*		*10 - 120*
Nitrobenzene-d5 (Surr)	*91*		*27 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-258135/24-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258135

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.5		8.5		ug/Kg		05/22/15 08:02	05/26/15 16:52	1
PCB-1221	<8.5		8.5		ug/Kg		05/22/15 08:02	05/26/15 16:52	1
PCB-1232	<8.5		8.5		ug/Kg		05/22/15 08:02	05/26/15 16:52	1
PCB-1242	<8.5		8.5		ug/Kg		05/22/15 08:02	05/26/15 16:52	1
PCB-1248	<8.5		8.5		ug/Kg		05/22/15 08:02	05/26/15 16:52	1
PCB-1254	<8.5		8.5		ug/Kg		05/22/15 08:02	05/26/15 16:52	1
PCB-1260	<8.5		8.5		ug/Kg		05/22/15 08:02	05/26/15 16:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*30 - 150*	*05/22/15 08:02*	*05/26/15 16:52*	*1*
Tetrachloro-m-xylene	*72*		*43 - 142*	*05/22/15 08:02*	*05/26/15 16:52*	*1*

Lab Sample ID: LCS 400-258135/23-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258135

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	163		ug/Kg		98	54 - 126		
PCB-1260			167	177		ug/Kg		106	56 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*106*		*30 - 150*
Tetrachloro-m-xylene	*99*		*43 - 142*

Lab Sample ID: 400-105845-1 MS
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: B-1 0'-10.5
Prep Type: Total/NA
Prep Batch: 258135

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	<11		223	159		ug/Kg	☼	71	15 - 150		
PCB-1260	<11		223	189		ug/Kg	☼	85	21 - 150		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*83*		*30 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 400-105845-1 MS
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: B-1 0'-10.5
Prep Type: Total/NA
Prep Batch: 258135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*69*		*43 - 142*

Lab Sample ID: 400-105845-1 MSD
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: B-1 0'-10.5
Prep Type: Total/NA
Prep Batch: 258135

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<11		222	178		ug/Kg	☼	80	15 - 150	11	42
PCB-1260	<11		222	185		ug/Kg	☼	83	21 - 150	2	29

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	*77*		*30 - 150*
Tetrachloro-m-xylene	*75*		*43 - 142*

Lab Sample ID: MB 400-258140/19-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1221	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1232	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1242	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1248	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1254	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1260	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*67*		*30 - 150*	*05/22/15 08:08*	*05/27/15 03:44*	*1*
Tetrachloro-m-xylene	*53*		*43 - 142*	*05/22/15 08:08*	*05/27/15 03:44*	*1*

Lab Sample ID: LCS 400-258140/18-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258140

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	176		ug/Kg		105	54 - 126		
PCB-1260			167	205		ug/Kg		123	56 - 139		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	*123*		*30 - 150*
Tetrachloro-m-xylene	*99*		*43 - 142*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 400-258146/1-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1221	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1232	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1242	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1248	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1254	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1260	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*10 - 125*	*05/22/15 08:24*	*05/29/15 12:42*	*1*
Tetrachloro-m-xylene	*90*		*46 - 150*	*05/22/15 08:24*	*05/29/15 12:42*	*1*

Lab Sample ID: LCS 400-258146/4-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258146

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	4.93		ug/L		99	54 - 126		
PCB-1260			5.00	4.48		ug/L		90	56 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*10 - 125*
Tetrachloro-m-xylene	*90*		*46 - 150*

Lab Sample ID: LCSD 400-258146/5-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	5.08		ug/L		102	54 - 126	3	40
PCB-1260			5.00	5.00		ug/L		100	56 - 139	11	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*10 - 125*
Tetrachloro-m-xylene	*91*		*46 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-257912/1-A
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<10		10		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Arsenic	<0.51		0.51		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Beryllium	<0.31		0.31		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Cadmium	<0.51		0.51		mg/Kg		05/21/15 11:41	05/23/15 12:24	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-257912/1-A
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257912

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	<1.0		1.0		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Copper	<1.0		1.0		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Nickel	<0.51		0.51		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Lead	<0.51		0.51		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Antimony	<5.1		5.1		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Silver	<0.51		0.51		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Selenium	<1.0		1.0		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Thallium	<1.0		1.0		mg/Kg		05/21/15 11:41	05/23/15 12:24	1
Zinc	<2.0		2.0		mg/Kg		05/21/15 11:41	05/23/15 12:24	1

Lab Sample ID: LCS 400-257912/2-A
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257912

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	997	1020		mg/Kg		103	80 - 120
Arsenic	99.7	98.7		mg/Kg		99	80 - 120
Beryllium	49.8	50.3		mg/Kg		101	80 - 120
Cadmium	49.8	48.2		mg/Kg		97	80 - 120
Chromium	99.7	100		mg/Kg		101	80 - 120
Copper	99.7	101		mg/Kg		101	80 - 120
Nickel	99.7	95.8		mg/Kg		96	80 - 120
Lead	99.7	96.0		mg/Kg		96	80 - 120
Antimony	99.7	101		mg/Kg		101	80 - 120
Silver	49.8	48.4		mg/Kg		97	80 - 120
Selenium	99.7	95.6		mg/Kg		96	80 - 120
Thallium	99.7	95.8		mg/Kg		96	80 - 120
Zinc	99.7	98.7		mg/Kg		99	80 - 120

Lab Sample ID: MB 400-257943/1-A
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257943

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<9.9		9.9		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Arsenic	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Beryllium	<0.30		0.30		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Cadmium	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Chromium	<0.99		0.99		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Copper	<0.99		0.99		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Nickel	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Lead	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Antimony	<4.9		4.9		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Silver	<0.49		0.49		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Selenium	<0.99		0.99		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Thallium	<0.99		0.99		mg/Kg		05/21/15 11:41	05/23/15 14:07	1
Zinc	<2.0		2.0		mg/Kg		05/21/15 11:41	05/23/15 14:07	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-257943/2-A
Matrix: Solid
Analysis Batch: 258374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257943

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	996	1040		mg/Kg		104	80 - 120
Arsenic	99.6	101		mg/Kg		101	80 - 120
Beryllium	49.8	50.7		mg/Kg		102	80 - 120
Cadmium	49.8	49.1		mg/Kg		99	80 - 120
Chromium	99.6	103		mg/Kg		103	80 - 120
Copper	99.6	105		mg/Kg		105	80 - 120
Nickel	99.6	97.2		mg/Kg		98	80 - 120
Lead	99.6	97.4		mg/Kg		98	80 - 120
Antimony	99.6	102		mg/Kg		102	80 - 120
Silver	49.8	48.4		mg/Kg		97	80 - 120
Selenium	99.6	97.3		mg/Kg		98	80 - 120
Thallium	99.6	97.6		mg/Kg		98	80 - 120
Zinc	99.6	101		mg/Kg		101	80 - 120

Lab Sample ID: MB 400-258513/1-A
Matrix: Solid
Analysis Batch: 258974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<10		10		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Arsenic	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Beryllium	<0.30		0.30		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Cadmium	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Chromium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Copper	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Nickel	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Lead	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Antimony	<5.1		5.1		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Silver	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Selenium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Thallium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Zinc	<2.0		2.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1

Lab Sample ID: LCS 400-258513/2-A
Matrix: Solid
Analysis Batch: 258974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1030	1080		mg/Kg		104	80 - 120
Arsenic	103	102		mg/Kg		99	80 - 120
Beryllium	51.6	53.8		mg/Kg		104	80 - 120
Cadmium	51.6	50.7		mg/Kg		98	80 - 120
Chromium	103	106		mg/Kg		103	80 - 120
Copper	103	112		mg/Kg		108	80 - 120
Nickel	103	102		mg/Kg		99	80 - 120
Lead	103	101		mg/Kg		98	80 - 120
Antimony	103	105		mg/Kg		102	80 - 120
Silver	51.6	51.4		mg/Kg		100	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-258513/2-A
Matrix: Solid
Analysis Batch: 258974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	103	98.0		mg/Kg		95	80 - 120
Thallium	103	100		mg/Kg		97	80 - 120
Zinc	103	105		mg/Kg		102	80 - 120

Lab Sample ID: MB 400-257997/1-A
Matrix: Water
Analysis Batch: 258122

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 257997

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:21	1
Beryllium	<0.0030		0.0030		mg/L		05/21/15 10:05	05/21/15 17:21	1
Cadmium	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:21	1
Chromium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:21	1
Copper	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:21	1
Nickel	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:21	1
Lead	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:21	1
Antimony	<0.050		0.050		mg/L		05/21/15 10:05	05/21/15 17:21	1
Silver	<0.0050		0.0050		mg/L		05/21/15 10:05	05/21/15 17:21	1
Selenium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:21	1
Thallium	<0.010		0.010		mg/L		05/21/15 10:05	05/21/15 17:21	1
Zinc	<0.020		0.020		mg/L		05/21/15 10:05	05/21/15 17:21	1

Lab Sample ID: LCS 400-257997/2-A
Matrix: Water
Analysis Batch: 258122

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 257997

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.06		mg/L		106	80 - 120
Beryllium	0.500	0.533		mg/L		107	80 - 120
Cadmium	0.500	0.513		mg/L		103	80 - 120
Chromium	1.00	1.01		mg/L		101	80 - 120
Copper	1.00	1.07		mg/L		107	80 - 120
Nickel	1.00	0.998		mg/L		100	80 - 120
Lead	1.00	1.01		mg/L		101	80 - 120
Antimony	1.00	1.08		mg/L		108	80 - 120
Silver	0.500	0.531		mg/L		106	80 - 120
Selenium	1.00	1.10		mg/L		110	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Zinc	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: 400-105845-2 MS
Matrix: Water
Analysis Batch: 258122

Client Sample ID: TW-1
Prep Type: Total Recoverable
Prep Batch: 257997

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	<0.0050		1.00	1.05		mg/L		105	75 - 125
Beryllium	<0.0030		0.500	0.514		mg/L		103	75 - 125
Cadmium	<0.0050		0.500	0.498		mg/L		100	75 - 125
Chromium	<0.010		1.00	0.974		mg/L		97	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 400-105845-2 MS — **Client Sample ID: TW-1**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 258122 — **Prep Batch: 257997**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Copper	<0.010		1.00	1.07		mg/L		107	75 - 125
Nickel	<0.0050		1.00	0.982		mg/L		98	75 - 125
Lead	0.0092		1.00	1.00		mg/L		99	75 - 125
Antimony	<0.050		1.00	1.07		mg/L		107	75 - 125
Silver	<0.0050		0.500	0.523		mg/L		105	75 - 125
Selenium	<0.010		1.00	1.06		mg/L		105	75 - 125
Thallium	<0.010		1.00	1.02		mg/L		102	75 - 125
Zinc	<0.020		1.00	1.01		mg/L		101	75 - 125

Lab Sample ID: 400-105845-2 MSD — **Client Sample ID: TW-1**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 258122 — **Prep Batch: 257997**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	<0.0050		1.00	1.04		mg/L		104	75 - 125	1	20
Beryllium	<0.0030		0.500	0.510		mg/L		102	75 - 125	1	20
Cadmium	<0.0050		0.500	0.496		mg/L		99	75 - 125	0	20
Chromium	<0.010		1.00	0.973		mg/L		97	75 - 125	0	20
Copper	<0.010		1.00	1.08		mg/L		108	75 - 125	0	20
Nickel	<0.0050		1.00	0.978		mg/L		98	75 - 125	0	20
Lead	0.0092		1.00	1.00		mg/L		99	75 - 125	0	20
Antimony	<0.050		1.00	1.06		mg/L		106	75 - 125	1	20
Silver	<0.0050		0.500	0.521		mg/L		104	75 - 125	0	20
Selenium	<0.010		1.00	1.06		mg/L		105	75 - 125	0	20
Thallium	<0.010		1.00	1.01		mg/L		101	75 - 125	1	20
Zinc	<0.020		1.00	1.00		mg/L		100	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-258013/14-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 258453 — **Prep Batch: 258013**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		05/21/15 10:47	05/26/15 09:42	1

Lab Sample ID: LCS 400-258013/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 258453 — **Prep Batch: 258013**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00108		mg/L		107	80 - 120

Lab Sample ID: LCSD 400-258013/26-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 258453 — **Prep Batch: 258013**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.00101	0.00100		mg/L		100	80 - 120	7	20

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 400-105845-9 MS
Matrix: Water
Analysis Batch: 258453

Client Sample ID: TW-3
Prep Type: Total/NA
Prep Batch: 258013

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.00020		0.00201	0.00196		mg/L		92	80 - 120

Lab Sample ID: 400-105845-9 MSD
Matrix: Water
Analysis Batch: 258453

Client Sample ID: TW-3
Prep Type: Total/NA
Prep Batch: 258013

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00201	0.00199		mg/L		94	80 - 120	2	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-257977/14-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.012		0.012		mg/Kg		05/21/15 09:12	05/26/15 12:05	1

Lab Sample ID: LCS 400-257977/15-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0656	0.0645		mg/Kg		98	80 - 120

Lab Sample ID: MB 400-257988/36-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257988

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015		mg/Kg		05/21/15 09:36	05/26/15 13:08	1

Lab Sample ID: LCS 400-257988/37-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257988

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0736	0.0753		mg/Kg		102	80 - 120

Lab Sample ID: 400-105845-3 MS
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: SB-1 0'-11'
Prep Type: Total/NA
Prep Batch: 257988

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.017		0.177	0.175		mg/Kg	☼	99	80 - 120

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: 400-105845-3 MSD
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: SB-1 0'-11'
Prep Type: Total/NA
Prep Batch: 257988

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.017		0.169	0.169		mg/Kg	☼	100	80 - 120	4	20

Client Sample ID: B-1 0'-10.5

Lab Sample ID: 400-105845-1

Date Collected: 05/18/15 13:03

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259337	06/01/15 08:00	CLN	TAL PEN
Total/NA	Analysis	8260B		1	259339	06/01/15 15:06	CLN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/29/15 20:02	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 18:33	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 14:45	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:10	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 11:24	CMW	TAL PEN

Client Sample ID: TW-1

Lab Sample ID: 400-105845-2

Date Collected: 05/18/15 13:58

Matrix: Water

Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259232	05/31/15 20:18	WPD	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 15:27	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 17:07	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 14:00	MAM	TAL PEN
Total Recoverable	Prep	3005A			257997	05/21/15 10:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258122	05/21/15 17:28	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/21/15 10:49	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 09:46	JAP	TAL PEN

Client Sample ID: SB-1 0'-11'

Lab Sample ID: 400-105845-3

Date Collected: 05/18/15 13:30

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259337	06/01/15 08:00	CLN	TAL PEN
Total/NA	Analysis	8260B		1	259339	06/01/15 15:31	CLN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/29/15 20:41	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 18:59	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 14:49	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN

Client Sample ID: SB-1 0'-11'

Lab Sample ID: 400-105845-3
Date Collected: 05/18/15 13:30
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 90.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	258494	05/26/15 13:12	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 11:24	CMW	TAL PEN

Client Sample ID: SB-2 0'-11'

Lab Sample ID: 400-105845-4
Date Collected: 05/18/15 13:53
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259337	06/01/15 08:00	CLN	TAL PEN
Total/NA	Analysis	8260B		1	259339	06/01/15 15:57	CLN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/29/15 21:20	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 19:24	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 14:52	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:26	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 11:24	CMW	TAL PEN

Client Sample ID: SB-3 0'-8'

Lab Sample ID: 400-105845-5
Date Collected: 05/18/15 14:10
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259337	06/01/15 08:00	CLN	TAL PEN
Total/NA	Analysis	8260B		1	259339	06/01/15 16:23	CLN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/29/15 21:59	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 19:49	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:05	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:27	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: B-2 0'-8'

Lab Sample ID: 400-105845-6
Date Collected: 05/18/15 14:25
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259337	06/01/15 08:00	CLN	TAL PEN

Client Sample ID: B-2 0'-8'

Lab Sample ID: 400-105845-6

Date Collected: 05/18/15 14:25
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259339	06/01/15 16:49	CLN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/29/15 22:38	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 20:14	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:08	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:28	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: TW-2

Lab Sample ID: 400-105845-7

Date Collected: 05/18/15 15:08
Matrix: Water
Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259232	05/31/15 20:44	WPD	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 16:05	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 17:43	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 14:25	MAM	TAL PEN
Total Recoverable	Prep	3005A			257997	05/21/15 10:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258122	05/21/15 17:54	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/21/15 10:49	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 09:47	JAP	TAL PEN

Client Sample ID: B-3 0'-8'

Lab Sample ID: 400-105845-8

Date Collected: 05/18/15 14:52
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 74.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259337	06/01/15 08:00	CLN	TAL PEN
Total/NA	Analysis	8260B		1	259339	06/01/15 17:15	CLN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/29/15 23:17	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 20:39	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:12	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:30	JAP	TAL PEN

Client Sample ID: B-3 0'-8'

Lab Sample ID: 400-105845-8
Matrix: Solid
Date Collected: 05/18/15 14:52
Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: TW-3

Lab Sample ID: 400-105845-9
Matrix: Water
Date Collected: 05/18/15 16:20
Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259232	05/31/15 21:09	WPD	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 16:44	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 18:19	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 14:52	MAM	TAL PEN
Total Recoverable	Prep	3005A			257997	05/21/15 10:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258122	05/21/15 17:58	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/21/15 10:49	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 09:48	JAP	TAL PEN

Client Sample ID: SB-4 0'-8'

Lab Sample ID: 400-105845-10
Matrix: Solid
Date Collected: 05/18/15 15:30
Percent Solids: 89.9
Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259337	06/01/15 08:00	CLN	TAL PEN
Total/NA	Analysis	8260B		1	259339	06/01/15 17:41	CLN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/29/15 23:56	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 21:05	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:15	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:31	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-5 0'-9'

Lab Sample ID: 400-105845-11
Matrix: Solid
Date Collected: 05/18/15 15:40
Percent Solids: 77.5
Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259337	06/01/15 08:00	CLN	TAL PEN
Total/NA	Analysis	8260B		1	259339	06/01/15 18:06	CLN	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-5 0'-9'

Lab Sample ID: 400-105845-11
Date Collected: 05/18/15 15:40
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 77.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/30/15 00:35	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 21:29	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:18	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:32	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-6 0'-8'

Lab Sample ID: 400-105845-12
Date Collected: 05/18/15 16:07
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 91.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259342	06/01/15 13:14		TAL PEN
Total/NA	Analysis	8260B		1	259278	06/01/15 17:05	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/30/15 01:14	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 21:55	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:21	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:34	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-7 0'-8'

Lab Sample ID: 400-105845-13
Date Collected: 05/18/15 16:20
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 89.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259342	06/01/15 13:14		TAL PEN
Total/NA	Analysis	8260B		1	259278	06/01/15 17:32	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/30/15 01:54	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 22:20	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:25	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:35	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-8 0'-8'

Lab Sample ID: 400-105845-14

Date Collected: 05/18/15 16:28
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259342	06/01/15 13:14		TAL PEN
Total/NA	Analysis	8260B		1	259278	06/01/15 17:59	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 16:30	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 22:45	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 13:28	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:47	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: DB-1 0'-4'

Lab Sample ID: 400-105845-15

Date Collected: 05/19/15 08:30
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 76.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259342	06/01/15 13:14		TAL PEN
Total/NA	Analysis	8260B		1	259278	06/01/15 19:46	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 17:06	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 23:10	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:28	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:48	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: B-4 0'-4'

Lab Sample ID: 400-105845-16

Date Collected: 05/19/15 08:42
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259342	06/01/15 13:14		TAL PEN
Total/NA	Analysis	8260B		1	259278	06/01/15 20:13	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 17:42	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/26/15 23:35	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:31	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN

Client Sample ID: B-4 0'-4'

Lab Sample ID: 400-105845-16
Date Collected: 05/19/15 08:42
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 78.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	258494	05/26/15 13:49	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: TW-4

Lab Sample ID: 400-105845-17
Date Collected: 05/19/15 10:10
Matrix: Water
Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259232	05/31/15 21:35	WPD	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 17:22	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 18:55	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 15:18	MAM	TAL PEN
Total Recoverable	Prep	3005A			257997	05/21/15 10:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258122	05/21/15 18:01	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/21/15 10:49	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 10:14	JAP	TAL PEN

Client Sample ID: SB-9 0'-4'

Lab Sample ID: 400-105845-18
Date Collected: 05/19/15 09:05
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 82.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259342	06/01/15 13:14		TAL PEN
Total/NA	Analysis	8260B		1	259278	06/01/15 20:40	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 18:18	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 00:00	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:35	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:50	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-10 0'-3.5'

Lab Sample ID: 400-105845-19
Date Collected: 05/19/15 09:20
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259342	06/01/15 13:14		TAL PEN

Client Sample ID: SB-10 0'-3.5'

Lab Sample ID: 400-105845-19
Date Collected: 05/19/15 09:20
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259278	06/01/15 21:07	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 18:54	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 01:15	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:48	SLM	TAL PEN
Total/NA	Prep	3050B	DL		257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B	DL	2	258392	05/25/15 12:45	GESP	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:52	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-11 0'-3'

Lab Sample ID: 400-105845-20
Date Collected: 05/19/15 09:36
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 62.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259342	06/01/15 13:14		TAL PEN
Total/NA	Analysis	8260B		1	259278	06/01/15 21:34	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 19:30	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 01:39	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:51	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:53	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-12 0'-3'

Lab Sample ID: 400-105845-21
Date Collected: 05/19/15 09:50
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 13:07	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 20:06	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 02:04	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:54	SLM	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-12 0'-3'

Date Collected: 05/19/15 09:50
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-21

Matrix: Solid
Percent Solids: 81.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:55	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: B-5 0'-4'

Date Collected: 05/19/15 10:06
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-22

Matrix: Solid
Percent Solids: 71.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 13:34	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 20:41	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 02:29	MAM	TAL PEN
Total/NA	Prep	3050B			257943	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 15:57	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:56	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: TW-5

Date Collected: 05/19/15 11:23
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-23

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259232	05/31/15 22:01	WPD	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 18:00	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 19:31	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 11:17	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 15:43	MAM	TAL PEN
Total Recoverable	Prep	3005A			257997	05/21/15 10:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258122	05/21/15 18:05	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/21/15 10:49	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 10:15	JAP	TAL PEN

Client Sample ID: SB-13 0'-4'

Lab Sample ID: 400-105845-24

Date Collected: 05/19/15 10:45
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 54.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 11:47	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 21:17	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 02:54	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 13:41	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:57	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: B-6 0'-4'

Lab Sample ID: 400-105845-25

Date Collected: 05/19/15 10:54
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 12:14	DAN	TAL PEN
Total/NA	Prep	3550C			257954	05/21/15 07:56	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259086	05/29/15 19:23	AJR	TAL PEN
Total/NA	Prep	3550C			258135	05/22/15 08:02	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 03:19	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 13:44	SLM	TAL PEN
Total/NA	Prep	7471B			257988	05/21/15 09:36	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:59	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: TW-6

Lab Sample ID: 400-105845-26

Date Collected: 05/19/15 13:55
Matrix: Water
Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259232	05/31/15 22:27	WPD	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 18:38	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 20:07	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 16:09	MAM	TAL PEN
Total Recoverable	Prep	3005A			257997	05/21/15 10:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258122	05/21/15 18:08	GESP	TAL PEN

Client Sample ID: TW-6

Lab Sample ID: 400-105845-26
Date Collected: 05/19/15 13:55
Matrix: Water
Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			258013	05/21/15 12:12	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 10:17	JAP	TAL PEN

Client Sample ID: SB-14 0'-4'

Lab Sample ID: 400-105845-27
Date Collected: 05/19/15 12:16
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 12:41	DAN	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	258565	05/27/15 21:54	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 06:14	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 13:47	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:38	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-15 0'-4'

Lab Sample ID: 400-105845-28
Date Collected: 05/19/15 12:24
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 80.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 14:01	DAN	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 11:43	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 06:39	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 13:50	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:40	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-16 0'-4'

Lab Sample ID: 400-105845-29
Date Collected: 05/19/15 12:54
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN

Client Sample ID: SB-16 0'-4'

Lab Sample ID: 400-105845-29

Date Collected: 05/19/15 12:54
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 88.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259439	06/02/15 18:40	DAN	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 12:19	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 07:04	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 13:54	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:41	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-17 0'-5'

Lab Sample ID: 400-105845-30

Date Collected: 05/19/15 13:05
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 19:06	DAN	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 12:55	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 07:30	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 13:57	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:42	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: B-7 0'-11'

Lab Sample ID: 400-105845-31

Date Collected: 05/19/15 13:26
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 88.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 15:22	DAN	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 13:31	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 07:55	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 14:00	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:43	JAP	TAL PEN

Client Sample ID: B-7 0'-11'

Lab Sample ID: 400-105845-31

Date Collected: 05/19/15 13:26

Matrix: Solid

Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: TW-7

Lab Sample ID: 400-105845-32

Date Collected: 05/19/15 14:50

Matrix: Water

Date Received: 05/20/15 09:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259232	05/31/15 22:53	WPD	TAL PEN
Total/NA	Prep	3520C			259035	05/29/15 11:19	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259300	06/01/15 19:16	AJR	TAL PEN
Total/NA	Prep	3520C			258202	05/22/15 12:59	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 20:43	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 16:35	MAM	TAL PEN
Total Recoverable	Prep	3005A			257997	05/21/15 10:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258122	05/21/15 18:11	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/21/15 10:49	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 10:16	JAP	TAL PEN

Client Sample ID: SB-18 0'-11'

Lab Sample ID: 400-105845-33

Date Collected: 05/19/15 13:56

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 19:33	DAN	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 14:07	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 08:20	MAM	TAL PEN
Total/NA	Prep	3050B			257912	05/21/15 11:41	DN1	TAL PEN
Total/NA	Analysis	6010B		1	258374	05/23/15 14:03	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:45	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: SB-19 0'-11'

Lab Sample ID: 400-105845-34

Date Collected: 05/19/15 14:12

Matrix: Solid

Date Received: 05/20/15 09:00

Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259489	06/02/15 10:19		TAL PEN
Total/NA	Analysis	8260B		1	259439	06/02/15 16:15	DAN	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Harrison Brother Site

TestAmerica Job ID: 400-105845-1

Client Sample ID: SB-19 0'-11'
Date Collected: 05/19/15 14:12
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105845-34
Matrix: Solid
Percent Solids: 83.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	258565	05/27/15 21:18	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 08:46	MAM	TAL PEN
Total/NA	Prep	3050B			258513	05/27/15 09:35	KWN	TAL PEN
Total/NA	Analysis	6010B		1	258974	05/28/15 15:44	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:46	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRON

400-105845 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 4
Company: Thompson Engineering Inc				Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT			
City: Mobile	TAT Requested (days): Standard TAT			
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			
Email: mmontgomery@thompsonengineering.com	WO #:			
Project Name: Thompson Engineering	Project #: 40003023			
Site: Harrison Brothers Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
B-1 0'-10.5	5/18/2015	1303	C	Solid	N	N	1	1	X	X	X	X	2	
TW-1	5/18/2015	1358	G	~~Solid~~ Water	N	N	X	X	3	2	1	1	7	
SB-1 0'-11'	5/18/2015	1330	C	Solid	N	N	1	1	X	X	X	X	2	
SB-2 0'-11'	5/18/2015	1353	C	Solid	N	N	1	1	X	X	X	X	2	
SB-3 0'-8'	5/18/2015	1410	C	Solid	N	N	1	1	X	X	X	X	2	
B-2 0'-8'	5/18/2015	1425	C	Solid	N	N	1	1	X	X	X	X	2	
TW-2	5/18/2015	1508	G	~~Solid~~ Water	N	N	X	X	3	2	1	1	7	
B-3 0'-8'	5/18/2015	1452	C	Solid	N	N	1	1	X	X	X	X	2	
TW-3	5/18/2015	1620	G	~~Solid~~ Water	N	N	X	X	3	2	1	1	7	
SB-4 0'-8'	5/18/2015	1530	C	Solid	N	N	1	1	X	X	X	X	2	
SB-5 0'-9'	5/18/2015	1540	C	Solid	N	N	1	1	X	X	X	X	2	

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Melissa M. Montgomery	5/19/15 1738	Thompson Eng		5/19/15 1738	Thompson
	5/20/15 900	Thompson		5/20/15 9:00	TA

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
	N-M 11,56, 11,561, 11,562	3.5°C, 3.4°C, 4.0°C, 4.9°C

6/9/2015

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 2 of 4
Company: Thompson Engineering Inc				Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT			
City: Mobile	TAT Requested (days): Standard TAT			
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			
Email: mmontgomery@thompsonengineering.com	WO #:			
Project Name: Thompson Engineering	Project #: 40003023			
Site: Harrison Brothers Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCs Target Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
SB-6 0'-8'	5/18/15	1607	C	Solid	N	N	1	1	X	X	X	X	2	
SB-7 0'-8'	5/18/15	1620	C	Solid	N	N	1	1	X	X	X	X	2	
SB-8 0'-8'	5/18/15	1628	C	Solid	N	N	1	1	X	X	X	X	2	
DB-1 0'-4'	5/19/15	0830	C	Solid	N	N	1	1	X	X	X	X	2	
B-4 0'-4'	5/19/15	0842	C	Solid	N	N	1	1	X	X	X	X	2	
TW-4	5/19/15	10:10	G	~~Solid~~ Water	N	N	X	X	3	2	1	1	7	
SB-9 0'-4'	5/19/15	0905	C	Solid	N	N	1	1	X	X	X	X	2	
SB-10 0'-3.5'	5/19/15	0920	C	Solid	N	N	1	1	X	X	X	X	2	
SB-11 0'-3'	5/19/15	0936	C	Solid	N	N	1	1	X	X	X	X	2	
SB-12 0'-3'	5/19/15	0950	C	Solid	N	N	1	1	X	X	X	X	2	
B-5 0'-4'	5/19/15	1006	C	Solid	N	N	1	1	X	X	X	X	2	

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Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Melissa M. Montgomery	5/19/15 1738	Thompson Eng	[illegible]	5/19/15 1738	Test
2	[illegible]	5/20/15 900	Thompson	[illegible]	5/20-15 9:00	TA
3						

Custody Seals Intact: △ Yes △ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

Page 173 of 175

6/9/2015

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 3 of 4
Company: Thompson Engineering Inc				Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT			
City: Mobile	TAT Requested (days): Standard TAT			
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			
Email: mmontgomery@thompsonengineering.com	WO #:			
Project Name: Thompson Engineering	Project #: 40003023			
Site: Harrison Brothers Site	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A							Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	A	N	D	N								
TW-5	5/19/15	1123	G	~~Solid~~ Water	N	N	X	X	3	2	1	1								7
SB-13 0'-4'	5/19/15	1045	C	Solid	N	N	1	1	X	X	X	X								2
B-6 0'-4'	5/19/15	1054	C	Solid	N	N	1	1	X	X	X	X								2
TW-6	5/19/15	1355	G	~~Solid~~ Water	N	N	X	X	3	2	1	1								7
SB-14 0'-4'	5/19/15	1216	C	Solid	N	N	1	1	X	X	X	X								2
SB-15 0'-4'	5/19/15	1224	C	Solid	N	N	1	1	X	X	X	X								2
SB-16 0'-4'	5/19/15	1254	C	Solid	N	N	1	1	X	X	X	X								2
SB-17 0'-5'	5/19/15	1305	C	Solid	N	N	1	1	X	X	X	X								2
B-7 0'-11'	5/19/15	1326	C	Solid	N	N	1	1	X	X	X	X								2
TW-7	5/19/15	1450	G	~~Solid~~ Water	N	N	X	X	3	2	1	1								7
SB-18 0'-11'	5/19/15	1356	C	Solid	N	N	1	1	X	X	X	X								2

Possible Hazard Identification
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	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Melissa M. Montgomery	5/19/15 1738	Thompson Eng		5/19/15 1738	Thompson
2		5/20/15 900	Thompson		5-20-15 9:00	TA
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: VCM 11.5, 3.8 ; 11.5, 6.1 ; 11.5, 6.4

6/9/2015

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

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THE LEADER IN ENVIRONMENTAL TESTING

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Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 4-4
Company: Thompson Engineering Inc				Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT			
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State, Zip: AL, 36606	PO #: Purchase Order not required			
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	WO #:			
Email: mmontgomery@thompsonengineering.com	Project #: 40003023			
Project Name: Thompson Engineering	SSOW#:			
Site: Harrison Brothers Site				

Analysis Requested

Preservation Codes:

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B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCs Target Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A							Total Number of containers	Special Instructions/Note:
				Preservation Code:			N	N	A	N	D	N								
SB-19 0'-11'	5/19/2015	14:12	C	Solid	X	X	1	1	X	X	X	X							2	
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
				Water																
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	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Melissa M Montgomery	5/19/15 1738	Thompson Eng	[signature]	5/19/15 1738	Thompso
2	[signature]	5/20/15 900	Thompso	[signature]	5-20-15 9:00	
3						

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks:

6/9/2015

AUSTAL (FORMER MOBILE ABRASIVES) PROPERTY

1.1 Project Background

The Austal (Former Mobile Abrasives) property is located at 400 Dunlap Drive in Mobile, Alabama (Figures 1 and 2, Appendix A). The site is currently a pier and vessel completion yard. The property has reportedly been used for sand and/or abrasive operation, a fabricated pipe and pipe fitting manufacturing operation, and a scrap metal operation. The northern portion of the property will be impacted by the current proposed I-10 Mobile River bridge construction and right of way. Surface elevations at the project site are approximately 4 to 10 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on May 19, 2015. Two hand borings (HB-1 and HB-2) were advanced on-site by use of stainless steel hand augers within the projected right of way for the proposed bridge (Figure 3, Appendix A). It should be noted that the original sampling plan for this site included one deep temporary well to a maximum depth of 90 feet below ground surface (bgs) and one shallow temporary well to the upper groundwater surface; however at the time of sampling, the area of interest was covered by demolished concrete rubble and was inaccessible with the Geoprobe drill rig. One composite soil sample was collected from each hand boring from ground surface to approximately 2 feet bgs in HB-1 and 3.5 feet bgs in HB-2. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8082A), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

1.3 Results

Soils encountered during the advancement of the hand borings consisted of coarse sandblasting material type sand. Soil boring logs are presented in Appendix B.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, PCBs, and metals for soil is included in Appendix C (Log No.: 400-105848-1). The soil analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBs in both soil samples collected. Beryllium, lead, nickel, and zinc were reported in both soil samples but at levels below their respective ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). Aluminum was reported in both soil samples collected at levels above the ADEM PSV and EPA RSL for residential soil. Arsenic was reported in both soil samples collected at levels above the ADEM PSVs and EPA RSLs for both residential and industrial/commercial soils. Chromium was reported in hand boring HB-1 at a concentration above the ADEM PSV for residential soil. Chromium was reported in hand boring HB-2 at a concentration above both the ADEM PSV for residential and commercial soil. There are no established EPA RSLs for chromium. Copper was reported above the ADEM and EPA screening levels for residential soils in hand boring HB-2. Copper was also reported in hand boring HB-1 but at a concentration below the ADEM PSVs and EPA RSLs. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

1.4 Conclusions

- Aluminum concentrations in soil exceeded the residential ADEM PSV of 7,600 milligrams per kilogram (mg/kg) and the residential EPA RSL of 7,700 mg/kg in hand boring HB-1 (38,000 mg/kg) and HB-2 (25,000 mg/kg); however, the reported concentrations are below the industrial/commercial EPA and ADEM regulatory screening values. The United States Geological Survey (USGS) has reported an average concentration of aluminum for the conterminous United States as 72,000 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States; however, for Mobile County, aluminum values are determined on a percent by weight basis.

- The detectable concentration of copper in hand boring HB-2 (1,100 mg/kg) was reported above the ADEM and EPA residential regulatory screening value of 310 mg/kg. The USGS has reported an average concentration of copper for the conterminous United States as 25 mg/kg. For Mobile County, Alabama the average copper concentration is reported as ranging from 1.051 to 18.576 mg/kg, with an average of 4.706 mg/kg.

- The detectable concentration of arsenic in hand borings HB-1 (11 mg/kg) and HB-2 (160 mg/kg) are above the residential and industrial/commercial EPA and ADEM regulatory screening values. The USGS has reported an average concentration of arsenic for the conterminous United States as 7.2 mg/kg. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Chromium was reported in both soil samples above the residential ADEM PSV of 30 mg/kg and above the commercial ADEM PSV of 64 mg/kg in hand boring HB-2 (75 mg/kg). The USGS has reported an average concentration of chromium for the

conterminous United States as 54 mg/kg. The USGS National Geochemical Survey does not provide values for chromium in Mobile County, Alabama.

1.5 Recommendations

Based on review of the analytical results of the soil samples collected on May 19, 2015, arsenic and chromium in soil have detectable concentrations above EPA and/or ADEM industrial/commercial regulatory screening values. The arsenic and chromium levels in hand boring HB-2 exceed typical "background" levels observed in Mobile County, Alabama. It is Thompson Engineering's opinion that the soils sampled may not have been native but instead composed of sandblasting material. Nevertheless, dust suppression efforts should be made to protect personnel in the area from dust inhalation. Groundwater samples were not collected and analyzed at this site; therefore, if groundwater is encountered during subsurface work, it should not be used for potable purposes.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
Austal (Mobile Abrasives) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							HB-1 0'-2'	HB-2 0'-3.5'
Volatile Organics GC/MS								
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0057	<0.0048
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0057	<0.0048
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0057	<0.0048
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0057	<0.0048
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0057	<0.0048
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0057	<0.0048
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0057	<0.0048
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0057	<0.0048
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0057	<0.0048
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0057	<0.0048
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.028	<0.024
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<0.028	<0.024
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0057	<0.0048
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0057	<0.0048
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0057	<0.0048
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0057	<0.0048
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0057	<0.0048
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0057	<0.0048
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0057	<0.0048
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0057	<0.0048
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0057	<0.0048
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0057	<0.0048
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0057	<0.0048
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0057	<0.0048
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0057	<0.0048
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0057	<0.0048
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0057	<0.0048
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.028	<0.024
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.028	<0.024
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.017	<0.014
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0057	<0.0048
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0057	<0.0048
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0057	<0.0048
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0057	<0.0048
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0057	<0.0048
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0057	<0.0048
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0057	<0.0048
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0057	<0.0048
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0057	<0.0048

The data presented is a summary of the results of samples collected on May 19, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
Austal (Mobile Abrasives) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							HB-1 0'-2'	HB-2 0'-3.5'
Semivolatile Organics								
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.350	<0.330
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.350	<0.330
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.350	<0.330
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.330
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.350	<0.330
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.330
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.350	<0.330
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.350	<0.330
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.350	<0.330
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.350	<0.330
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.350	<0.330
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.350	<0.330
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.330
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.350	<0.330
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.350	<0.330
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.350	<0.330
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.350	<0.330
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.350	<0.330
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.0	<1.0
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.350	<0.330
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.350	<0.330
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.350	<0.330
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.350	<0.330
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.350	<0.330
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.350	<0.330
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.350	<0.330
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.350	<0.330
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.350	<0.330
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.350	<0.330
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.350	<0.330
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.350	<0.330
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.350	<0.330
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.350	<0.330
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.350	<0.330
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.350	<0.330
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.350	<0.330
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.350	<0.330
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.350	<0.330
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.350	<0.330
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.350	<0.330
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.350	<0.330
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.350	<0.330
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.350	<0.330
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.350	<0.330
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.350	<0.330
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.690	<0.670
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.350	<0.330
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.350	<0.330
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.690	<0.670
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.350	<0.330
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.350	<0.330
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.350	<0.330
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.0	<1.0
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.350	<0.330
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.350	<0.330
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.350	<0.330
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.350	<0.330
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.350	<0.330
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.350	<0.330
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.350	<0.330
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.350	<0.330
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.350	<0.330
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.350	<0.330
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.350	<0.330
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.350	<0.330

The data presented is a summary of the results of samples collected on May 19, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Table 1c
Soil Analytical Results
PCB Arochlors
Austal (Mobile Abrasives) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							HB-1 0'-2'	HB-2 0'-3.5'
PCB Arochlors								
PCB-1016	12674-11-2	mg/kg	0.41	5.1	0.39	21	<0.009	<0.0086
PCB-1221	11104-28-2	mg/kg	0.20	0.83	0.22	0.74	<0.009	<0.0086
PCB-1232	11141-16-5	mg/kg	0.17	0.72	0.22	0.74	<0.009	<0.0086
PCB-1242	53469-21-9	mg/kg	0.23	0.95	0.22	0.74	<0.009	<0.0086
PCB-1248	12672-29-6	mg/kg	0.23	0.95	0.22	0.74	<0.009	<0.0086
PCB-1254	11097-69-1	mg/kg	0.12	0.97	0.22	0.74	<0.009	<0.0086
PCB-1260	11096-82-5	mg/kg	0.24	0.99	0.22	0.74	<0.009	<0.0086

The data presented is a summary of the results of samples collected on May 19, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil
(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil
(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.
mg/kg indicates milligrams per kilogram.

Table 1d
Soil Analytical Results
Metals
Austal (Mobile Abrasives) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							HB-1 0'-2'	HB-2 0'-3.5'
Metals								
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	**38,000**	**25,000**
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<9.8	<24
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	**11**	**160**
Beryllium	7440-41-7	mg/kg	16	230	15	190	2.0	1.8
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.98	3.1
Chromium	7440-47-3	mg/kg	None	None	30	64	**39**	**75**
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	140	**1,100**
Lead	7439-92-1	mg/kg	400	800	400	800	23	110
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	<0.016	<0.015
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	26	31
Selenium	7782-49-2	mg/kg	39	580	39	510	<2.0	<4.8
Silver	7440-22-4	mg/kg	39	580	39	510	<0.98	<2.4
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<2.0	<4.8
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	78	990

The data presented is a summary of the results of samples collected on May 19, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

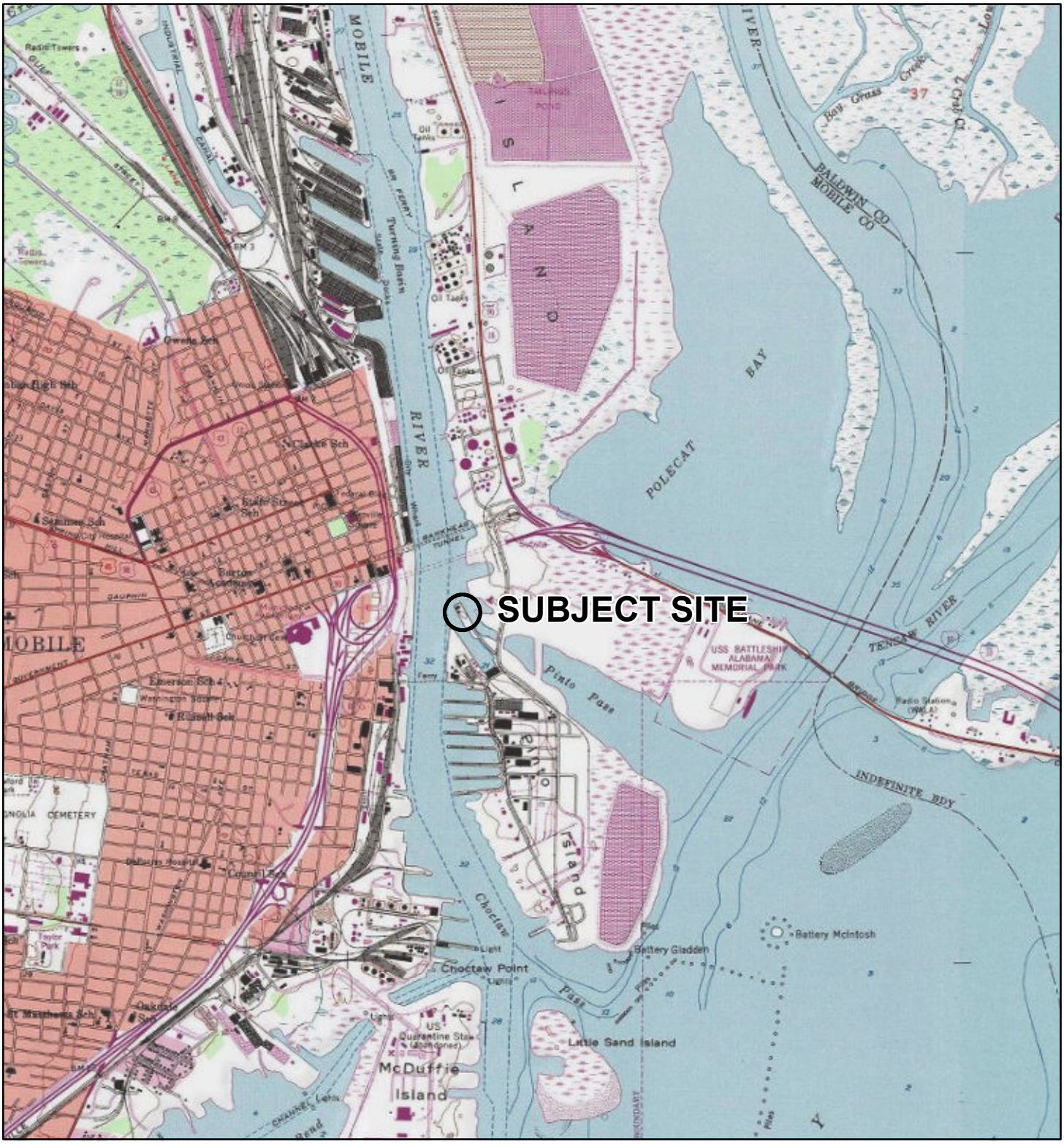
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

APPENDIX A

AUSTAL (FORMER MOBILE ABRASIVE) PROPERTY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

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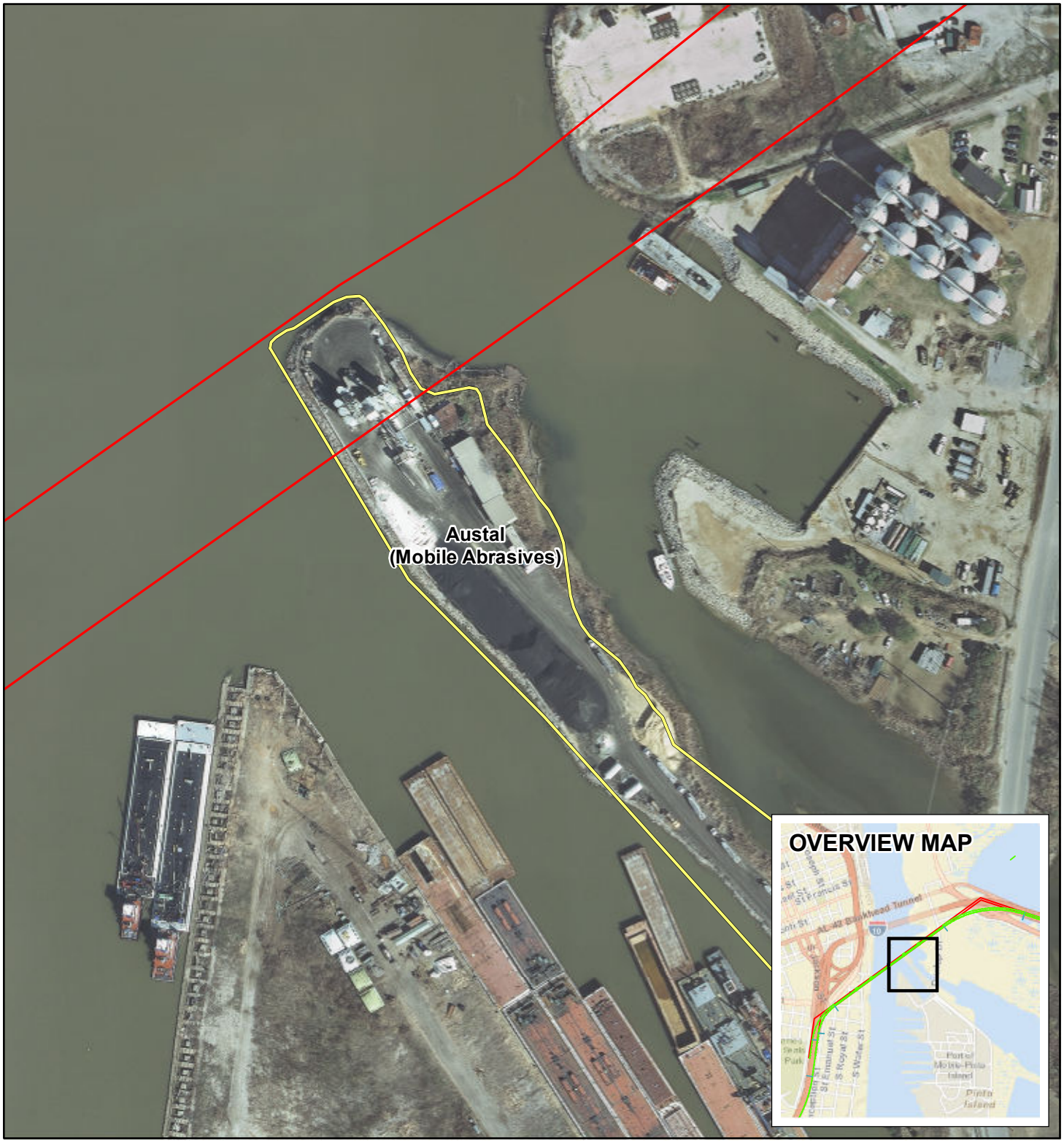
ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 1
SITE VICINITY MAP
AUSTAL (Former Mobile Abrasives) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

- Project Limit
- Parcel Line*

1:2,400

0 200 400 Feet

1 inch = 200 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
Mobile County Revenue Commissioner's Parcels - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

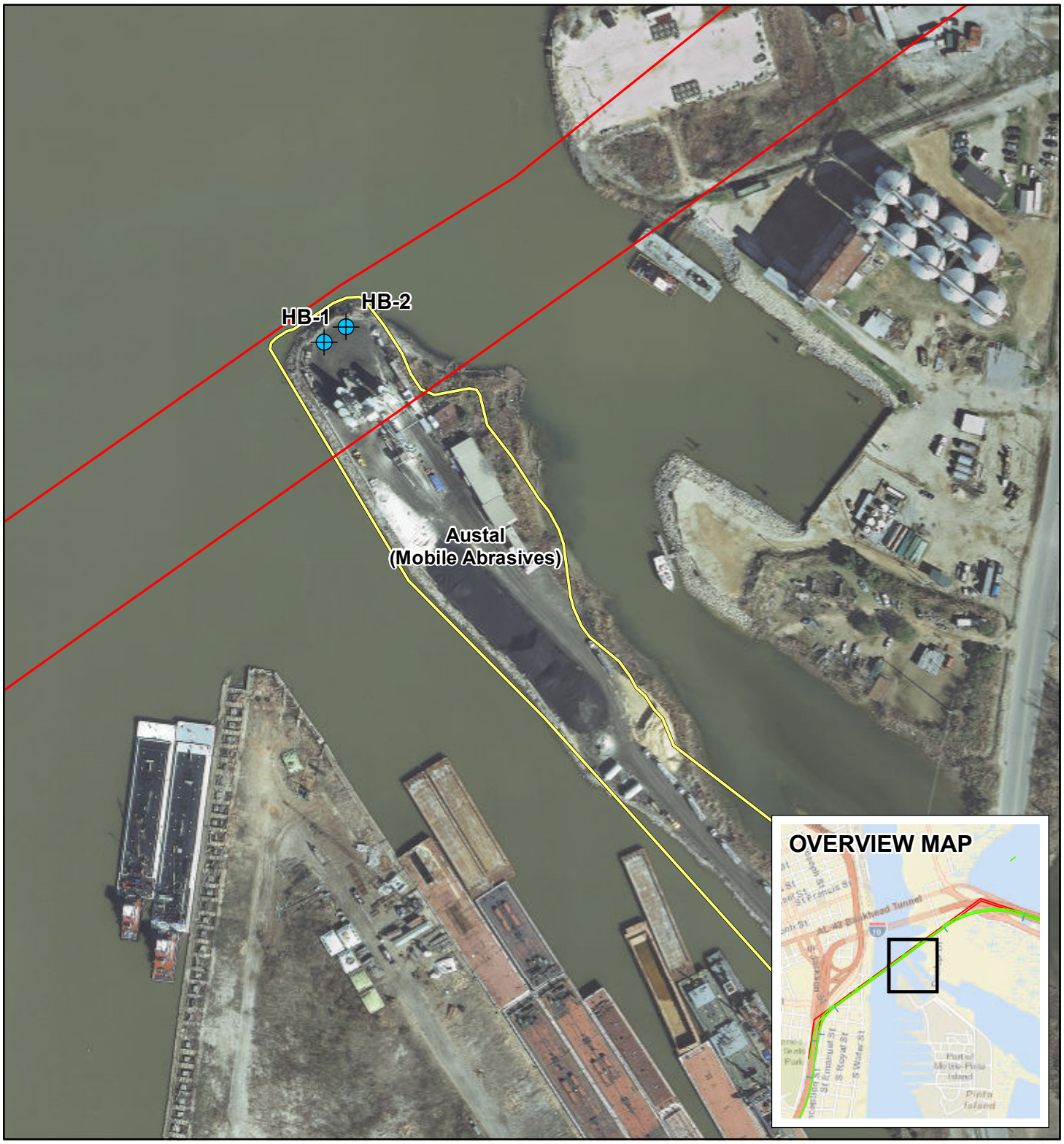
ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 2
AERIAL PHOTOGRAPH
AUSTAL (Former Mobile Abrasives) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\AUSTAL_FORMER_ABRASIVES_FIG3.mxd



LEGEND

Hand Boring (HB)

Project Limit

Parcel Line*

1:2,400

0 200 400 Feet

1 inch = 200 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
Mobile County Revenue Commissioner's Parcels - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
AUSTAL (Former Mobile Abrasives) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOhearn\GIS\MXD\AUSTAL_FORMER_ABRASIVES_FIG3.mxd

APPENDIX B

AUSTAL (FORMER MOBILE ABRASIVE) PROPERTY SOIL BORING LOGS

PROJECT NO.: 15-1101-0043

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 2 ft. bgs

BORING NO.: HB-1 **LOCATION:** Austal (Former Mobile Abrasives) **TYPE BORING:** Hand Auger

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Brown coarse SAND (sandblasting material)
		B.T. @ 2 ft bgs
5		
10		
15		
20		
25		
30		
35		

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 3.5 ft. bgs

BORING NO.: HB-2 **LOCATION:** Austal (Former Mobile Abrasives) **TYPE BORING:** Hand Auger

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Brown coarse SAND (sandblasting material)
		B.T. @ 3.5 ft bgs
5		
10		
15		
20		
25		
30		
35		

APPENDIX C

AUSTAL (FORMER MOBILE ABRASIVE) PROPERTY LABORATORY ANALYTICAL DATA WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105848-1
Client Project/Site: Austal - Former Mobile Abrasives

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
6/9/2015 2:09:38 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-105848-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105848-1

Comments
No additional comments.

Receipt
The samples were received on 5/20/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
Method(s) 6010B: Because of the physical characteristics of digestate received, dilutions were performed for the following samples: HB-1 0'-2' (400-105848-1) and HB-2 0'-3.5' (400-105848-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: HB-1 0'-2'
Date Collected: 05/19/15 15:52
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105848-1
Matrix: Solid
Percent Solids: 94.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,1,2,2-Tetrachloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,1,2-Trichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,1-Dichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,1-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,2-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,2-Dichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,2-Dichloropropane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,3-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
1,4-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
2-Hexanone	<28		28		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Acetone	<28		28		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Benzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Bromoform	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Bromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Carbon disulfide	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Carbon tetrachloride	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Chlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Chlorodibromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Chloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Chloroform	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Chloromethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
cis-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
cis-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Dichlorobromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Ethylbenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
m-Xylene & p-Xylene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
2-Butanone (MEK)	<28		28		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Methylene Chloride	<17		17		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
o-Xylene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Styrene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Tetrachloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Toluene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
trans-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
trans-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Trichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Vinyl chloride	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1
Xylenes, Total	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*72 - 122*	*06/02/15 11:57*	*06/02/15 14:31*	*1*
Dibromofluoromethane	*103*		*79 - 123*	*06/02/15 11:57*	*06/02/15 14:31*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/02/15 11:57*	*06/02/15 14:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
1,4-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
1-Methylnaphthalene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1

Client Sample ID: HB-1 0'-2'
Date Collected: 05/19/15 15:52
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105848-1
Matrix: Solid
Percent Solids: 94.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2,4,6-Trichlorophenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2,4-Dichlorophenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2,4-Dimethylphenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2,4-Dinitrophenol	<1000		1000		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2-Chlorophenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2-Methylnaphthalene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2-Methylphenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2-Nitroaniline	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2-Nitrophenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
3 & 4 Methylphenol	<690		690		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
3,3'-Dichlorobenzidine	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
4,6-Dinitro-2-methylphenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
4-Bromophenyl phenyl ether	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
4-Chloro-3-methylphenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
4-Chloroaniline	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
4-Chlorophenyl phenyl ether	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
4-Nitroaniline	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
4-Nitrophenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Acenaphthene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Acenaphthylene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Anthracene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Benzidine	<1000		1000		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Benzo[a]anthracene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Benzo[a]pyrene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Benzo[b]fluoranthene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Benzo[g,h,i]perylene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Benzo[k]fluoranthene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Bis(2-chloroethoxy)methane	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Bis(2-chloroethyl)ether	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Bis(2-ethylhexyl) phthalate	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Butyl benzyl phthalate	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Carbazole	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Chrysene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Di-n-butyl phthalate	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Di-n-octyl phthalate	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Dibenz(a,h)anthracene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Dibenzofuran	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Diethyl phthalate	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Dimethyl phthalate	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Fluoranthene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Fluorene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Hexachlorobenzene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Hexachlorobutadiene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Hexachlorocyclopentadiene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Hexachloroethane	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Indeno[1,2,3-cd]pyrene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Isophorone	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
N-Nitrosodi-n-propylamine	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1

Client Sample ID: HB-1 0'-2'
Date Collected: 05/19/15 15:52
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105848-1
Matrix: Solid
Percent Solids: 94.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
N-Nitrosodiphenylamine	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Naphthalene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Nitrobenzene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Pentachlorophenol	<690		690		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Phenanthrene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Phenol	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Pyrene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
1,2,4-Trichlorobenzene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
1,2-Dichlorobenzene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2,4-Dinitrotoluene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
2,6-Dinitrotoluene	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1
Dinoseb	<350		350		ug/Kg	☼	05/21/15 08:04	05/29/15 15:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*75*		*37 - 120*	*05/21/15 08:04*	*05/29/15 15:55*	*1*
Terphenyl-d14 (Surr)	*90*		*36 - 134*	*05/21/15 08:04*	*05/29/15 15:55*	*1*
2,4,6-Tribromophenol (Surr)	*69*		*32 - 133*	*05/21/15 08:04*	*05/29/15 15:55*	*1*
2-Fluorobiphenyl	*75*		*44 - 120*	*05/21/15 08:04*	*05/29/15 15:55*	*1*
2-Fluorophenol (Surr)	*67*		*25 - 120*	*05/21/15 08:04*	*05/29/15 15:55*	*1*
Nitrobenzene-d5 (Surr)	*69*		*27 - 120*	*05/21/15 08:04*	*05/29/15 15:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 10:57	1
PCB-1221	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 10:57	1
PCB-1232	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 10:57	1
PCB-1242	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 10:57	1
PCB-1248	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 10:57	1
PCB-1254	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 10:57	1
PCB-1260	<9.0		9.0		ug/Kg	☼	05/22/15 08:08	05/27/15 10:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*30 - 150*	*05/22/15 08:08*	*05/27/15 10:57*	*1*
Tetrachloro-m-xylene	*78*		*43 - 142*	*05/22/15 08:08*	*05/27/15 10:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.98		0.98		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Aluminum	**38000**		20		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Arsenic	**11**		0.98		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Beryllium	**2.0**		0.59		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Cadmium	<0.98		0.98		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Chromium	**39**		2.0		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Copper	**140**		2.0		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Nickel	**26**		0.98		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Lead	**23**		0.98		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Antimony	<9.8		9.8		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Selenium	<2.0		2.0		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2
Thallium	<2.0		2.0		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2

Client Sample ID: HB-1 0'-2'

Lab Sample ID: 400-105848-1
Date Collected: 05/19/15 15:52
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 94.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	78		3.9		mg/Kg	☼	05/27/15 09:35	05/28/15 15:47	2

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.016		0.016		mg/Kg	☼	05/21/15 09:12	05/26/15 12:12	1

Client Sample ID: HB-2 0'-3.5'

Lab Sample ID: 400-105848-2
Date Collected: 05/19/15 15:58
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 97.5

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,1,2,2-Tetrachloroethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,1,2-Trichloroethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,1-Dichloroethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,1-Dichloroethene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,2-Dichlorobenzene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,2-Dichloroethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,2-Dichloropropane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,3-Dichlorobenzene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
1,4-Dichlorobenzene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
2-Hexanone	<24		24		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Acetone	<24		24		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Benzene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Bromoform	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Bromomethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Carbon disulfide	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Carbon tetrachloride	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Chlorobenzene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Chlorodibromomethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Chloroethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Chloroform	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Chloromethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
cis-1,2-Dichloroethene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
cis-1,3-Dichloropropene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Dichlorobromomethane	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Ethylbenzene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
m-Xylene & p-Xylene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
2-Butanone (MEK)	<24		24		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
4-Methyl-2-pentanone (MIBK)	<24		24		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Methylene Chloride	<14		14		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
o-Xylene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Styrene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Tetrachloroethene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Toluene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
trans-1,2-Dichloroethene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
trans-1,3-Dichloropropene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Trichloroethene	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1
Vinyl chloride	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1

Client: Thompson Engineering Inc
Project/Site: Austal - Former Mobile Abrasives

TestAmerica Job ID: 400-105848-1

Client Sample ID: HB-2 0'-3.5'
Date Collected: 05/19/15 15:58
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105848-2
Matrix: Solid
Percent Solids: 97.5

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<4.8		4.8		ug/Kg	☼	06/02/15 11:57	06/02/15 14:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*106*		*72 - 122*	*06/02/15 11:57*	*06/02/15 14:56*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*06/02/15 11:57*	*06/02/15 14:56*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/02/15 11:57*	*06/02/15 14:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
1,4-Dichlorobenzene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
1-Methylnaphthalene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2,4,5-Trichlorophenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2,4,6-Trichlorophenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2,4-Dichlorophenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2,4-Dimethylphenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2,4-Dinitrophenol	<1000		1000		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2-Chlorophenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2-Methylnaphthalene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2-Methylphenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2-Nitroaniline	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2-Nitrophenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
3 & 4 Methylphenol	<670		670		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
4-Chloro-3-methylphenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
4-Chloroaniline	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
4-Nitroaniline	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
4-Nitrophenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Acenaphthene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Acenaphthylene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Anthracene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Benzidine	<1000		1000		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Benzo[a]anthracene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Benzo[a]pyrene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Benzo[b]fluoranthene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Benzo[g,h,i]perylene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Benzo[k]fluoranthene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Butyl benzyl phthalate	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Carbazole	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Chrysene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Di-n-butyl phthalate	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Di-n-octyl phthalate	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Dibenz(a,h)anthracene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Dibenzofuran	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1

Client Sample ID: HB-2 0'-3.5'
Date Collected: 05/19/15 15:58
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105848-2
Matrix: Solid
Percent Solids: 97.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Dimethyl phthalate	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Fluoranthene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Fluorene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Hexachlorobenzene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Hexachlorobutadiene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Hexachlorocyclopentadiene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Hexachloroethane	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Isophorone	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
N-Nitrosodimethylamine	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
N-Nitrosodiphenylamine	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Naphthalene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Nitrobenzene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Pentachlorophenol	<670		670		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Phenanthrene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Phenol	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Pyrene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
1,2-Dichlorobenzene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2,4-Dinitrotoluene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
2,6-Dinitrotoluene	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1
Dinoseb	<330		330		ug/Kg	☼	05/21/15 08:04	05/29/15 16:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*84*		*37 - 120*	*05/21/15 08:04*	*05/29/15 16:31*	*1*
Terphenyl-d14 (Surr)	*102*		*36 - 134*	*05/21/15 08:04*	*05/29/15 16:31*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*32 - 133*	*05/21/15 08:04*	*05/29/15 16:31*	*1*
2-Fluorobiphenyl	*85*		*44 - 120*	*05/21/15 08:04*	*05/29/15 16:31*	*1*
2-Fluorophenol (Surr)	*74*		*25 - 120*	*05/21/15 08:04*	*05/29/15 16:31*	*1*
Nitrobenzene-d5 (Surr)	*73*		*27 - 120*	*05/21/15 08:04*	*05/29/15 16:31*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.6		8.6		ug/Kg	☼	05/22/15 08:08	05/27/15 11:23	1
PCB-1221	<8.6		8.6		ug/Kg	☼	05/22/15 08:08	05/27/15 11:23	1
PCB-1232	<8.6		8.6		ug/Kg	☼	05/22/15 08:08	05/27/15 11:23	1
PCB-1242	<8.6		8.6		ug/Kg	☼	05/22/15 08:08	05/27/15 11:23	1
PCB-1248	<8.6		8.6		ug/Kg	☼	05/22/15 08:08	05/27/15 11:23	1
PCB-1254	<8.6		8.6		ug/Kg	☼	05/22/15 08:08	05/27/15 11:23	1
PCB-1260	<8.6		8.6		ug/Kg	☼	05/22/15 08:08	05/27/15 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*103*		*30 - 150*	*05/22/15 08:08*	*05/27/15 11:23*	*1*
Tetrachloro-m-xylene	*90*		*43 - 142*	*05/22/15 08:08*	*05/27/15 11:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<2.4		2.4		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5

Client: Thompson Engineering Inc
Project/Site: Austal - Former Mobile Abrasives

TestAmerica Job ID: 400-105848-1

Client Sample ID: HB-2 0'-3.5'
Date Collected: 05/19/15 15:58
Date Received: 05/20/15 09:00

Lab Sample ID: 400-105848-2
Matrix: Solid
Percent Solids: 97.5

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**25000**		48		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Arsenic	**160**		2.4		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Beryllium	**1.8**		1.4		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Cadmium	**3.1**		2.4		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Chromium	**75**		4.8		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Copper	**1100**		4.8		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Nickel	**31**		2.4		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Lead	**110**		2.4		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Antimony	<24		24		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Selenium	<4.8		4.8		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Thallium	<4.8		4.8		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5
Zinc	**990**		9.6		mg/Kg	☼	05/27/15 09:35	05/28/15 15:51	5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015		mg/Kg	☼	05/21/15 09:12	05/26/15 12:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-259530/1-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Hexanone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Acetone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Benzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromoform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloromethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Butanone (MEK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Methylene Chloride	<15		15		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
o-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Styrene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Toluene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Trichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 122*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 12:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259530/2-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	72 - 121
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	67 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	75 - 118
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	61 - 128
1,1-Dichloroethene	50.0	48.7		ug/Kg		97	62 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	76 - 120
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	64 - 129
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	78 - 118
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	77 - 118
2-Hexanone	200	203		ug/Kg		102	54 - 140
Acetone	200	193		ug/Kg		96	43 - 150
Benzene	50.0	48.6		ug/Kg		97	74 - 119
Bromoform	50.0	48.2		ug/Kg		96	54 - 125
Bromomethane	50.0	55.9		ug/Kg		112	25 - 150
Carbon disulfide	50.0	44.4		ug/Kg		89	26 - 150
Carbon tetrachloride	50.0	49.8		ug/Kg		100	70 - 128
Chlorobenzene	50.0	47.9		ug/Kg		96	80 - 116
Chlorodibromomethane	50.0	50.2		ug/Kg		100	65 - 131
Chloroethane	50.0	51.2		ug/Kg		102	22 - 150
Chloroform	50.0	48.9		ug/Kg		98	74 - 119
Chloromethane	50.0	50.3		ug/Kg		101	36 - 147
cis-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	68 - 126
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 125
Dichlorobromomethane	50.0	49.2		ug/Kg		98	68 - 128
Ethylbenzene	50.0	49.3		ug/Kg		99	78 - 120
m-Xylene & p-Xylene	50.0	48.8		ug/Kg		98	70 - 120
2-Butanone (MEK)	200	205		ug/Kg		103	62 - 126
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	56 - 137
Methylene Chloride	50.0	45.4		ug/Kg		91	45 - 150
o-Xylene	50.0	49.3		ug/Kg		99	70 - 120
Styrene	50.0	49.0		ug/Kg		98	66 - 132
Tetrachloroethene	50.0	47.1		ug/Kg		94	74 - 126
Toluene	50.0	47.8		ug/Kg		96	76 - 120
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	65 - 130
trans-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	65 - 126
Trichloroethene	50.0	48.6		ug/Kg		97	76 - 122
Vinyl chloride	50.0	52.1		ug/Kg		104	52 - 134
Xylenes, Total	100	98.1		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*101*		*79 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105848-1 MS
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: HB-1 0'-2'
Prep Type: Total/NA
Prep Batch: 259530

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<5.7		49.2	43.1		ug/Kg	☼	88	53 - 130
1,1,2,2-Tetrachloroethane	<5.7		49.2	39.0		ug/Kg	☼	79	10 - 155
1,1,2-Trichloroethane	<5.7		49.2	38.7		ug/Kg	☼	79	49 - 130
1,1-Dichloroethane	<5.7		49.2	41.2		ug/Kg	☼	84	53 - 130
1,1-Dichloroethene	<5.7		49.2	41.1		ug/Kg	☼	84	57 - 133
1,2-Dichlorobenzene	<5.7		49.2	23.2		ug/Kg	☼	47	41 - 130
1,2-Dichloroethane	<5.7		49.2	39.8		ug/Kg	☼	81	52 - 130
1,2-Dichloropropane	<5.7		49.2	40.8		ug/Kg	☼	83	52 - 130
1,3-Dichlorobenzene	<5.7		49.2	23.0		ug/Kg	☼	47	43 - 130
1,4-Dichlorobenzene	<5.7		49.2	20.8		ug/Kg	☼	42	42 - 130
2-Hexanone	<28		197	152		ug/Kg	☼	77	16 - 163
Acetone	<28		197	167		ug/Kg	☼	85	30 - 175
Benzene	<5.7		49.2	39.7		ug/Kg	☼	81	56 - 130
Bromoform	<5.7		49.2	35.9		ug/Kg	☼	73	40 - 130
Bromomethane	<5.7		49.2	44.2		ug/Kg	☼	90	14 - 185
Carbon disulfide	<5.7		49.2	31.4		ug/Kg	☼	64	56 - 130
Carbon tetrachloride	<5.7		49.2	42.1		ug/Kg	☼	86	52 - 133
Chlorobenzene	<5.7		49.2	31.4		ug/Kg	☼	64	55 - 130
Chlorodibromomethane	<5.7		49.2	37.9		ug/Kg	☼	77	49 - 130
Chloroethane	<5.7		49.2	43.4		ug/Kg	☼	88	39 - 157
Chloroform	<5.7		49.2	42.1		ug/Kg	☼	85	54 - 130
Chloromethane	<5.7		49.2	43.3		ug/Kg	☼	88	37 - 137
cis-1,2-Dichloroethene	<5.7		49.2	38.1		ug/Kg	☼	77	48 - 130
cis-1,3-Dichloropropene	<5.7		49.2	35.4		ug/Kg	☼	72	48 - 130
Dichlorobromomethane	<5.7		49.2	39.5		ug/Kg	☼	80	51 - 130
Ethylbenzene	<5.7		49.2	36.6		ug/Kg	☼	74	50 - 130
m-Xylene & p-Xylene	<5.7		49.2	35.4		ug/Kg	☼	72	53 - 130
2-Butanone (MEK)	<28		197	165		ug/Kg	☼	84	26 - 151
4-Methyl-2-pentanone (MIBK)	<28		197	161		ug/Kg	☼	82	27 - 146
Methylene Chloride	<17		49.2	41.2		ug/Kg	☼	84	52 - 130
o-Xylene	<5.7		49.2	36.1		ug/Kg	☼	73	53 - 130
Styrene	<5.7		49.2	27.8		ug/Kg	☼	56	50 - 130
Tetrachloroethene	<5.7		49.2	36.9		ug/Kg	☼	75	30 - 157
Toluene	<5.7		49.2	37.7		ug/Kg	☼	77	55 - 130
trans-1,2-Dichloroethene	<5.7		49.2	35.0		ug/Kg	☼	71	60 - 130
trans-1,3-Dichloropropene	<5.7		49.2	32.1		ug/Kg	☼	65	47 - 130
Trichloroethene	<5.7		49.2	37.8		ug/Kg	☼	77	41 - 145
Vinyl chloride	<5.7		49.2	42.7		ug/Kg	☼	87	50 - 141
Xylenes, Total	<5.7		98.4	71.4		ug/Kg	☼	73	51 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*104*		*72 - 122*
Dibromofluoromethane	*100*		*79 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105848-1 MSD
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: HB-1 0'-2'
Prep Type: Total/NA
Prep Batch: 259530

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<5.7		55.2	49.8		ug/Kg	☼	90	53 - 130	15	30
1,1,2,2-Tetrachloroethane	<5.7		55.2	43.5		ug/Kg	☼	79	10 - 155	11	57
1,1,2-Trichloroethane	<5.7		55.2	44.6		ug/Kg	☼	81	49 - 130	14	30
1,1-Dichloroethane	<5.7		55.2	48.3		ug/Kg	☼	88	53 - 130	16	30
1,1-Dichloroethene	<5.7		55.2	48.4		ug/Kg	☼	88	57 - 133	16	30
1,2-Dichlorobenzene	<5.7		55.2	26.8		ug/Kg	☼	49	41 - 130	14	30
1,2-Dichloroethane	<5.7		55.2	44.9		ug/Kg	☼	81	52 - 130	12	30
1,2-Dichloropropane	<5.7		55.2	47.6		ug/Kg	☼	86	52 - 130	15	30
1,3-Dichlorobenzene	<5.7		55.2	26.5		ug/Kg	☼	48	43 - 130	14	31
1,4-Dichlorobenzene	<5.7		55.2	24.0		ug/Kg	☼	44	42 - 130	14	31
2-Hexanone	<28		221	170		ug/Kg	☼	77	16 - 163	12	37
Acetone	<28		221	191		ug/Kg	☼	87	30 - 175	14	31
Benzene	<5.7		55.2	46.2		ug/Kg	☼	84	56 - 130	15	30
Bromoform	<5.7		55.2	39.4		ug/Kg	☼	71	40 - 130	9	30
Bromomethane	<5.7		55.2	53.3		ug/Kg	☼	97	14 - 185	18	44
Carbon disulfide	<5.7		55.2	38.4		ug/Kg	☼	70	56 - 130	20	30
Carbon tetrachloride	<5.7		55.2	49.7		ug/Kg	☼	90	52 - 133	16	30
Chlorobenzene	<5.7		55.2	36.4		ug/Kg	☼	66	55 - 130	15	30
Chlorodibromomethane	<5.7		55.2	42.9		ug/Kg	☼	78	49 - 130	13	30
Chloroethane	<5.7		55.2	51.4		ug/Kg	☼	93	39 - 157	17	55
Chloroform	<5.7		55.2	47.9		ug/Kg	☼	87	54 - 130	13	30
Chloromethane	<5.7		55.2	50.3		ug/Kg	☼	91	37 - 137	15	30
cis-1,2-Dichloroethene	<5.7		55.2	44.1		ug/Kg	☼	80	48 - 130	14	30
cis-1,3-Dichloropropene	<5.7		55.2	40.2		ug/Kg	☼	73	48 - 130	13	30
Dichlorobromomethane	<5.7		55.2	46.2		ug/Kg	☼	84	51 - 130	16	30
Ethylbenzene	<5.7		55.2	42.2		ug/Kg	☼	77	50 - 130	14	30
m-Xylene & p-Xylene	<5.7		55.2	40.7		ug/Kg	☼	74	53 - 130	14	30
2-Butanone (MEK)	<28		221	185		ug/Kg	☼	84	26 - 151	11	36
4-Methyl-2-pentanone (MIBK)	<28		221	183		ug/Kg	☼	83	27 - 146	13	32
Methylene Chloride	<17		55.2	46.9		ug/Kg	☼	85	52 - 130	13	30
o-Xylene	<5.7		55.2	41.2		ug/Kg	☼	75	53 - 130	13	30
Styrene	<5.7		55.2	31.6		ug/Kg	☼	57	50 - 130	13	30
Tetrachloroethene	<5.7		55.2	43.6		ug/Kg	☼	79	30 - 157	17	30
Toluene	<5.7		55.2	44.0		ug/Kg	☼	80	55 - 130	16	30
trans-1,2-Dichloroethene	<5.7		55.2	41.7		ug/Kg	☼	76	60 - 130	18	30
trans-1,3-Dichloropropene	<5.7		55.2	35.8		ug/Kg	☼	65	47 - 130	11	30
Trichloroethene	<5.7		55.2	43.9		ug/Kg	☼	80	41 - 145	15	30
Vinyl chloride	<5.7		55.2	50.4		ug/Kg	☼	91	50 - 141	17	30
Xylenes, Total	<5.7		110	81.8		ug/Kg	☼	74	51 - 130	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*105*		*72 - 122*
Dibromofluoromethane	*102*		*79 - 123*
Toluene-d8 (Surr)	*102*		*80 - 120*

Client: Thompson Engineering Inc
Project/Site: Austal - Former Mobile Abrasives

TestAmerica Job ID: 400-105848-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-257958/16-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1-Methylnaphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Chlorophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Methylnaphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Nitroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2-Nitrophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chloroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Nitroaniline	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
4-Nitrophenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Acenaphthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Acenaphthylene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzidine	<990		990		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[a]anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[a]pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Carbazole	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Chrysene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dibenzofuran	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Diethyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dimethyl phthalate	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Fluoranthene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Fluorene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorobutadiene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-257958/16-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257958

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Isophorone	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Naphthalene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Nitrobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Pentachlorophenol	<660		660		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Phenanthrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Phenol	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Pyrene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1
Dinoseb	<330		330		ug/Kg		05/21/15 08:04	05/27/15 18:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*92*		*37 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
Terphenyl-d14 (Surr)	*105*		*36 - 134*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*32 - 133*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
2-Fluorobiphenyl	*90*		*44 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
2-Fluorophenol (Surr)	*86*		*25 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*
Nitrobenzene-d5 (Surr)	*85*		*27 - 120*	*05/21/15 08:04*	*05/27/15 18:54*	*1*

Lab Sample ID: LCS 400-257958/15-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	880		ug/Kg		88	58 - 120
1-Methylnaphthalene	1000	958		ug/Kg		96	66 - 120
2,4,5-Trichlorophenol	1000	906		ug/Kg		91	62 - 120
2,4,6-Trichlorophenol	1000	913		ug/Kg		91	59 - 120
2,4-Dichlorophenol	1000	961		ug/Kg		96	67 - 120
2,4-Dimethylphenol	1000	928		ug/Kg		93	65 - 120
2,4-Dinitrophenol	2610	1780		ug/Kg		68	23 - 124
2-Chlorophenol	1000	913		ug/Kg		91	60 - 120
2-Nitrophenol	1000	935		ug/Kg		94	56 - 120
Acenaphthene	1000	917		ug/Kg		92	62 - 120
Acenaphthylene	1000	949		ug/Kg		95	61 - 120
Anthracene	1000	951		ug/Kg		95	68 - 120
Benzo[a]anthracene	1000	943		ug/Kg		94	67 - 120
Benzo[a]pyrene	1000	976		ug/Kg		98	64 - 120
Benzo[b]fluoranthene	1000	1050		ug/Kg		105	58 - 121
Benzo[g,h,i]perylene	1000	885		ug/Kg		89	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-257958/15-A
Matrix: Solid
Analysis Batch: 258565

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257958

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	908		ug/Kg		91	60 - 120
Bis(2-chloroethyl)ether	1000	893		ug/Kg		89	55 - 120
Bis(2-ethylhexyl) phthalate	1000	961		ug/Kg		96	59 - 136
Butyl benzyl phthalate	1000	1010		ug/Kg		101	55 - 135
Carbazole	1000	998		ug/Kg		100	69 - 121
Chrysene	1000	942		ug/Kg		94	65 - 120
Di-n-butyl phthalate	1000	946		ug/Kg		95	67 - 132
Di-n-octyl phthalate	1000	924		ug/Kg		92	58 - 132
Dibenz(a,h)anthracene	1000	938		ug/Kg		94	58 - 130
Dibenzofuran	1000	935		ug/Kg		94	65 - 120
Diethyl phthalate	1000	941		ug/Kg		94	62 - 124
Dimethyl phthalate	1000	937		ug/Kg		94	52 - 123
Fluoranthene	1000	894		ug/Kg		89	67 - 123
Fluorene	1000	957		ug/Kg		96	64 - 120
Hexachlorobenzene	1000	934		ug/Kg		93	57 - 131
Hexachlorobutadiene	1000	859		ug/Kg		86	56 - 120
Hexachlorocyclopentadiene	1000	623		ug/Kg		62	1 - 153
Hexachloroethane	1000	899		ug/Kg		90	53 - 120
Indeno[1,2,3-cd]pyrene	1000	930		ug/Kg		93	55 - 133
Isophorone	1000	922		ug/Kg		92	63 - 120
N-Nitrosodi-n-propylamine	1000	974		ug/Kg		97	34 - 150
N-Nitrosodimethylamine	1000	900		ug/Kg		90	26 - 140
N-Nitrosodiphenylamine	3170	2990		ug/Kg		94	16 - 160
Naphthalene	1000	894		ug/Kg		89	59 - 120
Nitrobenzene	1000	886		ug/Kg		89	53 - 125
Pentachlorophenol	2000	1840		ug/Kg		92	30 - 136
Phenanthrene	1000	934		ug/Kg		93	62 - 130
Phenol	1000	905		ug/Kg		91	54 - 120
Pyrene	1000	980		ug/Kg		98	57 - 127
1,2,4-Trichlorobenzene	1000	886		ug/Kg		89	62 - 120
1,2-Dichlorobenzene	1000	884		ug/Kg		88	58 - 120
2,4-Dinitrotoluene	1000	962		ug/Kg		96	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*105*		*37 - 120*
Terphenyl-d14 (Surr)	*110*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*109*		*32 - 133*
2-Fluorobiphenyl	*101*		*44 - 120*
2-Fluorophenol (Surr)	*100*		*25 - 120*
Nitrobenzene-d5 (Surr)	*100*		*27 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-258140/19-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1221	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1232	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1242	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1248	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1254	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1260	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*30 - 150*	*05/22/15 08:08*	*05/27/15 03:44*	*1*
Tetrachloro-m-xylene	*53*		*43 - 142*	*05/22/15 08:08*	*05/27/15 03:44*	*1*

Lab Sample ID: LCS 400-258140/18-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258140

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			167	176		ug/Kg		105	54 - 126		
PCB-1260			167	205		ug/Kg		123	56 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*30 - 150*
Tetrachloro-m-xylene	*99*		*43 - 142*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-258513/1-A
Matrix: Solid
Analysis Batch: 258974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Aluminum	<10		10		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Arsenic	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Beryllium	<0.30		0.30		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Cadmium	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Chromium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Copper	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Nickel	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Lead	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Antimony	<5.1		5.1		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Selenium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Thallium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Zinc	<2.0		2.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-258513/2-A
Matrix: Solid
Analysis Batch: 258974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	51.6	51.4		mg/Kg		100	80 - 120
Aluminum	1030	1080		mg/Kg		104	80 - 120
Arsenic	103	102		mg/Kg		99	80 - 120
Beryllium	51.6	53.8		mg/Kg		104	80 - 120
Cadmium	51.6	50.7		mg/Kg		98	80 - 120
Chromium	103	106		mg/Kg		103	80 - 120
Copper	103	112		mg/Kg		108	80 - 120
Nickel	103	102		mg/Kg		99	80 - 120
Lead	103	101		mg/Kg		98	80 - 120
Antimony	103	105		mg/Kg		102	80 - 120
Selenium	103	98.0		mg/Kg		95	80 - 120
Thallium	103	100		mg/Kg		97	80 - 120
Zinc	103	105		mg/Kg		102	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-257977/14-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.012		0.012		mg/Kg		05/21/15 09:12	05/26/15 12:05	1

Lab Sample ID: LCS 400-257977/15-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0656	0.0645		mg/Kg		98	80 - 120

Lab Sample ID: 400-105848-2 MS
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: HB-2 0'-3.5'
Prep Type: Total/NA
Prep Batch: 257977

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	<0.015		0.159	0.158		mg/Kg	☼	99	80 - 120

Lab Sample ID: 400-105848-2 MSD
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: HB-2 0'-3.5'
Prep Type: Total/NA
Prep Batch: 257977

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.015		0.161	0.168		mg/Kg	☼	104	80 - 120	6	20

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Austal - Former Mobile Abrasives

TestAmerica Job ID: 400-105848-1

Client Sample ID: HB-1 0'-2'

Lab Sample ID: 400-105848-1

Date Collected: 05/19/15 15:52
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 94.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 14:31	LRC	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 15:55	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 10:57	MAM	TAL PEN
Total/NA	Prep	3050B			258513	05/27/15 09:35	KWN	TAL PEN
Total/NA	Analysis	6010B		2	258974	05/28/15 15:47	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:12	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Client Sample ID: HB-2 0'-3.5'

Lab Sample ID: 400-105848-2

Date Collected: 05/19/15 15:58
Matrix: Solid
Date Received: 05/20/15 09:00
Percent Solids: 97.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 14:56	LRC	TAL PEN
Total/NA	Prep	3550C			257958	05/21/15 08:04	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259007	05/29/15 16:31	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 11:23	MAM	TAL PEN
Total/NA	Prep	3050B			258513	05/27/15 09:35	KWN	TAL PEN
Total/NA	Analysis	6010B		5	258974	05/28/15 15:51	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/21/15 09:12	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 12:13	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258165	05/22/15 12:39	CMW	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAm
THE LEADER IN ENVIRON

400-105848 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com	COC No: 400-45621-21847.1
Company: Thompson Engineering Inc			Page: Page 1 of 11
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT		Job #:
City: Mobile	TAT Requested (days): Standard TAT		
State, Zip: AL, 36606			
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required		
Email: mmontgomery@thompsonengineering.com	WO #:		
Project Name: Thompson Engineering	Project #: 40003023		
Site: Austal - Former Mobile Abrasives	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tel list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
HB-1 D'-2'	5/19/15	1552	C	Solid	N	N	1	1	X		X		2	
HB-2 0'-3.5'	5/19/15	1558	C	Solid	N	N	1	1	X		X		2	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Melissa M. Montgomery	Date/Time: 5/19/15 1735	Company: Thompson Eng.	Received by:	Date/Time: 5/19/15 1735	Company: T Thompson
Relinquished by:	Date/Time: 5/20/15 900	Company: J Thompson	Received by:	Date/Time: 5-20-15 9:00	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: | Cooler Temperature(s) °C and Other Remarks: 3.8°C #5592

400-105848

ALDOT (FORMER BENDER) PROPERTY

1.1 Project Background

The site is located at 257 Royal Street in Mobile, Alabama (Figures 1 and 2, Appendix A). In April 2013 the ALDOT purchased the property from Buffalo Marine Service. The site had an unoccupied office building during sampling activities in May 2015 but it has since been demolished and removed. The site is currently undeveloped and unoccupied. The southern portion of the property is located within the current proposed I-10 Mobile River bridge project limits. Surface elevations at the project site are approximately 5 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on May 20, 2015. Two borings (SB-1 and B-1/TW-1) were advanced on-site via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 8 feet below ground surface (bgs) by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from the ground surface to the top of the water table at approximately 4 feet bgs in soil boring SB-1 and at approximately 7 feet bgs in boring B-1. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8082A), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, boring B-1 was advanced an additional five feet into the water table and temporary 1-inch diameter piezometer (TW-1) was installed with five feet of 1-inch diameter schedule 40 PVC with 0.010 inch slotted screen. Following temporary well installation, groundwater samples were collected with the use of a peristaltic pump after first

developing and purging the well. During well development and purging, pH, temperature, specific conductivity, dissolved oxygen, and turbidity were collected after each well volume and measurements were recorded in a bound field log book. The well was purged until the field parameters stabilized. The final well volume field measurements are included in Appendix B.

Groundwater samples were collected in appropriate laboratory supplied containers. After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the COC and the containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Groundwater samples were submitted to the laboratory to be analyzed for the following chemical analyses: VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), PCBs (EPA Method 8082A) and metals (EPA Methods 6010B/7470A).

Upon completion of groundwater sampling procedures, the temporary well was removed from the subsurface and all soil boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of sandy clay and sands. A 4 inch layer of asphalt and a 2 inch layer of wood were present in soil boring SB-1. Soil boring logs and temporary well construction details are presented in Appendix C.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, PCBs, and metals for soil and groundwater is included in Appendix D (Log No.: 400-105951-1). The soil analytical results indicated non-detectable concentrations of SVOCs in both soil samples collected. Acetone was detected in both soil sample collected but at levels below the ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). PCB-1260 was detected in soil boring SB-1 at a concentration above the EPA residential RSL and both the residential and commercial ADEM PSVs. Aluminum, cadmium, copper, mercury, nickel, and zinc were reported in both soil samples collected but at concentrations below their respective PSVs and RSLs. Cadmium was also reported in both soil samples but only the concentration reported in soil boring B-1 exceeded the residential PSV. Chromium was also reported in both soil samples but at concentrations below its PSVs. There are no established EPA RSLs for chromium. Arsenic was reported above the PSVs and RSLs in boring B-1. Arsenic was also reported in soil boring SB-1 at a concentration above the residential PSV and RSL but below the industrial RSL and commercial PSV. Lead was reported below the PSVs and RSLs in soil boring SB-1 and above the PSVs and RSLs in boring B-1. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

The groundwater analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBs in both groundwater samples collected. Chromium and lead were reported in the groundwater sample from TW-1 but at levels below the ADEM PSV and the EPA Maximum Contaminant Level (MCL). The groundwater analytical results compared to

the ADEM PSVs and EPA RSLs or MCLs (if available) are provided in Table 2.

1.4 Conclusions

- Detectable concentrations of acetone, aluminum, copper, mercury, nickel, and zinc were reported in both soil samples but at levels below their respective ADEM and EPA regulatory screening values. PCB-1260 was also reported in both soil samples collected; however, the concentration in soil boring SB-1 exceeded the EPA residential and the ADEM residential and commercial regulatory screening values.

- The detectable concentration of arsenic soil boring SB-1 (1.3 mg/kg) is above the residential EPA and ADEM regulatory screening values. The detectable arsenic concentration of 4.2 mg/kg in boring B-1 is above both the EPA and ADEM residential and industrial/commercial regulatory screening values. The United States Geological Survey (USGS) has reported an average concentration of arsenic for the conterminous United States as 7.2 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Cadmium was reported in both soil samples collected and exceeded the ADEM residential regulatory screening value in boring B-1 with a concentration of 5.2 mg/kg. The reported concentration of cadmium did not exceed the EPA residential nor the ADEM and EPA commercial/industrial screening values.

- Lead was reported in both soil samples collected and exceeded the EPA and ADEM regulatory screening values in boring B-1 with a concentration of 860 mg/kg. The USGS has reported an average concentration of lead for the conterminous United States as 19 mg/kg. For Mobile County, Alabama the average lead concentration is reported as ranging from 4.413 mg/kg to 47.812 mg/kg, with an average of 17.420 mg/kg.

- Groundwater was encountered at 4 feet in soil boring SB-1 and at 7 feet in boring B-1/TW-1. Detectable concentrations of chromium and lead were reported in the groundwater sample collected but at levels below ADEM and EPA regulatory screening values.

1.5 Recommendations

Based on review of the analytical results of the soil samples collected on May 20, 2015, PCB-1260, arsenic, and lead in soil have detectable concentrations above EPA and/or ADEM industrial/commercial regulatory screening values. The detected arsenic values in soil are within the range historically reported in Mobile County, Alabama; however, the presence of PCB-1260 and lead indicates on-site contamination is present. Thompson Engineering recommends that dust suppression efforts should be made to protect personnel

in the area from dust inhalation. Groundwater concentrations did not exceed ADEM and EPA regulatory screening values; however, if groundwater is encountered during subsurface work should not be used for potable purposes.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							SB-1 0'-4'	B-1 0'-7'
Volatile Organics GC/MS								
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0061	<0.0078
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0061	<0.0078
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0061	<0.0078
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0061	<0.0078
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0061	<0.0078
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0061	<0.0078
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0061	<0.0078
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0061	<0.0078
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0061	<0.0078
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0061	<0.0078
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.030	<.039
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	0.078	0.11
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0061	<0.0078
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0061	<0.0078
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0061	<0.0078
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0061	<0.0078
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0061	<0.0078
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0061	<0.0078
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0061	<0.0078
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0061	<0.0078
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0061	<0.0078
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0061	<0.0078
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0061	<0.0078
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0061	<0.0078
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0061	<0.0078
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0061	<0.0078
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0061	<0.0078
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.030	<0.039
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.030	<0.039
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.018	<0.023
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0061	<0.0078
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0061	<0.0078
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0061	<0.0078
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0061	<0.0078
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0061	<0.0078
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0061	<0.0078
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0061	<0.0078
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0061	<0.0078
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0061	<0.0078

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.

(1) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							SB-1 0'-4'	B-1 0'-7'
Semivolatile Organics								
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.420	<4.6
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.420	<4.6
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.420	<4.6
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.420	<4.6
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.420	<4.6
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.420	<4.6
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.420	<4.6
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.420	<4.6
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.420	<4.6
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.420	<4.6
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	0.44	<4.6
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.420	<4.6
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.420	<4.6
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.420	<4.6
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.420	<4.6
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.420	<4.6
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.420	<4.6
Pyrene	129-00-0	mg/kg	180	2300	230	2900	0.440	<4.6
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.2	<14
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.420	<4.6
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.420	<4.6
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.420	<4.6
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.420	<4.6
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.420	<4.6
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.420	<4.6
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.420	<4.6
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.420	<4.6
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.420	<4.6
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.420	<4.6
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.420	<4.6
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.420	<4.6
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.420	<4.6
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.420	<4.6
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.420	<4.6
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.420	<4.6
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.420	<4.6
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.420	<4.6
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.420	<4.6
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.420	<4.6
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.420	<4.6
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.420	<4.6
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.420	<4.6
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.420	<4.6
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.420	<4.6
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.420	<4.6
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.830	<9.1
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.420	<4.6
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.420	<4.6
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.830	<9.1
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.420	<4.6
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.420	<4.6
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.420	<4.6
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.2	<14
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.420	<4.6
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.420	<4.6
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.420	<4.6
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.420	<4.6
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.420	<4.6
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.420	<4.6
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.420	<4.6
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.420	<4.6
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.420	<4.6
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.420	<4.6*
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.420	<4.6*
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.420	<4.6*

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1c
Soil Analytical Results
PCB Arochlors
ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[(1)]	EPA Industrial[(2)]	ADEM Residential[(3)]	ADEM Commercial[(4)]	Sample Location ID	
							SB-1 0'-4'	B-1 0'-7'
PCB Arochlors								
PCB-1016	12674-11-2	mg/kg	0.41	5.1	0.39	21	<0.011	<0.012
PCB-1221	11104-28-2	mg/kg	0.20	0.83	0.22	0.74	<0.011	<0.012
PCB-1232	11141-16-5	mg/kg	0.17	0.72	0.22	0.74	<0.011	<0.012
PCB-1242	53469-21-9	mg/kg	0.23	0.95	0.22	0.74	<0.011	<0.012
PCB-1248	12672-29-6	mg/kg	0.23	0.95	0.22	0.74	<0.011	<0.012
PCB-1254	11097-69-1	mg/kg	0.12	0.97	0.22	0.74	<0.011	<0.012
PCB-1260	11096-82-5	mg/kg	0.24	0.99	0.22	0.74	**0.84**	0.11

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil
(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil
(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.
mg/kg indicates milligrams per kilogram.
Bold and shaded values indicates concentration exceeds screening level.

Table 1d
Soil Analytical Results
Metals
ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID	
							SB-1 0'-4'	B-1 0'-7'
Metals								
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	2,800	5,800
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<6.0	<6.8
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	**1.3**	**4.2**
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.36	<0.41
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	1.0	**5.2**
Chromium	7440-47-3	mg/kg	None	None	30	64	6.6	16
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	42	300
Lead	7439-92-1	mg/kg	400	800	400	800	110	**860**
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	0.13	0.20 F1
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	4.9	28
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.2	<1.4
Silver	7440-22-4	mg/kg	39	580	39	510	<0.60	<0.68
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.2	<1.4
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	130	590

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Bold and shaded values indicates concentration exceeds screening level.

F1= MS and/or MSD Recovery is outside acceptance limits.

Table 2a
Groundwater Analytical Results
Volatile Organic Compounds
ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Volatile Organics GC/MS					
1,1,1-Trichloroethane	71-55-6	ug/L	200[3]	200	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.076	0.055	<1.0
1,1,2-Trichloroethane	79-00-5	ug/L	5[3]	5	<5.0
1,1-Dichloroethane	75-34-3	ug/L	2.8	81	<1.0
1,1-Dichloroethene	75-35-4	ug/L	7[3]	7	<1.0
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<1.0
1,2-Dichloroethane	107-06-2	ug/L	5[3]	5	<1.0
1,2-Dichloropropane	78-87-5	ug/L	5[3]	5	<1.0
1,3-Dichlorobenzene	541-73-1	ug/L	None	18	<1.0
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<1.0
2-Hexanone	591-78-6	ug/L	3.8[3]	None	<25
Acetone	67-64-1	ug/L	1400	550	<25
Benzene	71-43-2	ug/L	5[3]	5	<1.0
Bromoform	75-25-2	ug/L	80[3]	80	<5.0
Bromomethane	74-83-9	ug/L	0.75	0.87	<1.0
Carbon disulfide	75-15-0	ug/L	81	100	<1.0
Carbon tetrachloride	56-23-5	ug/L	5[3]	5	<1.0
Chlorobenzene	108-90-7	ug/L	100[3]	100	<1.0
Chlorodibromomethane	124-48-1	ug/L	80[3]	None	<1.0
Chloroethane	75-00-3	ug/L	2100	4.6	<1.0
Chloroform	67-66-3	ug/L	80[3]	80	<1.0
Chloromethane	74-87-3	ug/L	19	1.6	<1.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70[3]	70	<1.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0
Dichlorobromomethane	75-27-4	ug/L	80[3]	None	<1.0
Ethylbenzene	100-41-4	ug/L	700[3]	700	<1.0
m-Xylene & p-Xylene	1330-20-7	ug/L	10000[3]	10000	<5.0
2-Butanone (MEK)	78-93-3	ug/L	560	700	<25
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	630	200	<25
Methylene chloride	75-09-2	ug/L	5.0[3]	5	<5.0
o-Xylene	95-47-6	ug/L	19	19	<5.0
Styrene	100-42-5	ug/L	100[3]	100	<1.0
Tetrachloroethene	127-18-4	ug/L	5.0[3]	5	<1.0
Toluene	108-88-3	ug/L	100[3]	1000	<1.0
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100[3]	100	<1.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0
Trichloroethene (TCE)	79-01-6	ug/L	5.0[3]	5	<1.0
Vinyl chloride	75-01-4	ug/L	2.0[3]	2	<1.0
Xylenes (Total)	1330-20-7	ug/L	10000[3]	10000	<1.0

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.

Table 2b
Groundwater Analytical Results
Semi-Volatile Organic Compounds
ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Semivolatile Organics					
Acenaphthene	83-32-9	ug/L	53	37	<11
Acenaphthylene	208-96-8	ug/L	None	93.9	<11
Anthracene	120-12-7	ug/L	180	180	<11
Benzidine	92-87-5	ug/L	0.0001	0.00029	<26*
Benzo(a)anthracene	56-55-3	ug/L	0.012	0.092	<11
Benzo(a)pyrene	50-32-8	ug/L	0.2[3]	0.2	<11
Benzo(b)fluoranthene	205-99-2	ug/L	0.034	0.092	<11
Benzo(g,h,i)perylene	191-24-2	ug/L	None	46.9	<11
Benzo(k)fluoranthene	207-08-9	ug/L	0.34	0.92	<11
bis(2-chloroethoxy)methane	111-91-1	ug/L	5.9	46	<11
bis(2-chloroethyl)ether	111-44-4	ug/L	0.014	None	<11
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0[3]	6.0	<11
4-Bromophenyl phenyl ether	101-55-3	ug/L	None	None	<11
Butyl benzyl phthalate	85-68-7	ug/L	16	730	<11
Carbazole	86-74-8	ug/L	None	3.4	<11
4-Chloroaniline	106-47-8	ug/L	0.37	15	<11
4-Chloro-3-methylphenol	59-50-7	ug/L	140	None	<11
2-Chlorophenol	95-57-8	ug/L	9.1	3	<11
4-Chlorophenyl phenyl ether	7005-72-3	ug/L	None	None	<11
Chrysene	218-01-9	ug/L	3.4	9.2	<11
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0034	0.0092	<11
Dibenzofuran	132-64-9	ug/L	0.79	1.2	<11
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.13	0.15	<11
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<11
1,3-Dichlorobenzene	541-73-1	ug/L	None	None	<11
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<11
2,4-Dichlorophenol	120-83-2	ug/L	4.6	11	<11
Diethyl phthalate	84-66-2	ug/L	1500	2900	<11
2,4-Dimethylphenol	105-67-9	ug/L	36	73	<11
Dimthyl phthalate	131-11-3	ug/L	None	36000	<11
Di-n-butyl phthalate	84-74-2	ug/L	90	360	<11
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	0.15	None	<11
2,4-Dinitrophenol	51-28-5	ug/L	3.9	7.3	<32
2,4-Dinitrotoluene	121-14-2	ug/L	0.24	7.3	<11
2,6-Dinitrotoluene	606-20-2	ug/L	0.049	3.6	<11
Di-n-octyl phthalate	117-84-0	ug/L	20	150	<11
Dinoseb	88-85-7	ug/L	7.0[3]	None	<11
Fluoranthene	206-44-0	ug/L	80	150	<11
Fluorene	86-73-7	ug/L	29	24	<11
Hexachlorobenzene	118-74-1	ug/L	1.0[3]	1	<11
Hexachlorobutadiene	87-68-3	ug/L	0.14	0.86	<11
Hexachlorocyclopentadiene	77-47-4	ug/L	50[3]	50	<21
Hexachloroethane	67-72-1	ug/L	0.33	4.8	<11
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.034	0.092	<11
Isophorone	78-59-1	ug/L	78	71	<11
1-Methylnaphthalene	90-12-0	ug/L	1.1[3]	None	<11
2-Methylnaphthalene	91-57-6	ug/L	3.6	6.26	<11
2-Methylphenol	95-48-7	ug/L	93	180	<11
3 & 4 Methylphenol	106-44-5	ug/L	190	18	<21
Naphthalene	91-20-3	ug/L	0.17	0.62	<11
2-Nitroaniline	88-74-4	ug/L	19	11	<11
4-Nitroaniline	100-01-6	ug/L	3.8	None	<11
Nitrobenzene	98-95-3	ug/L	0.14	0.34	<11
2-Nitrophenol	88-75-5	ug/L	None	None	<11
4-Nitrophenol	100-02-7	ug/L	None	12.5	<11*
N-Nitrosodimethylamine	62-75-9	ug/L	0.00011	0.0013	<11
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.011	0.0096	<11
N-Nitrosodiphenylamine	86-30-6	ug/L	12	14	<11
Pentachlorophenol	87-86-5	ug/L	1.0[3]	1.0	<21
Phenanthrene	85-01-8	ug/L	None	46.9	<11
Phenol	108-95-2	ug/L	580	1100	<11
Pyrene	129-00-0	ug/L	12	18	<11
1,2,4-Trichlorobenzene	120-82-1	ug/L	7.0[3]	70.0	<11
2,4,5-Trichlorophenol	95-95-4	ug/L	120	360	<11
2,4,6-Trichlorophenol	88-06-2	ug/L	1.2	0.36	<11

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.
* = RPD of the LCS and LCSD exceeds the control limits.

Table 2c
Groundwater Analytical Results
PCB Arochlors
ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
PCB Arochlors					
PCB-1016	12674-11-2	ug/L	0.14	0.96	<0.53
PCB-1221	11104-28-2	ug/L	0.0047	0.034	<0.53
PCB-1232	1141-16-5	ug/L	0.0047	0.034	<0.53
PCB-1242	53469-21-9	ug/L	0.0078	0.034	<0.53
PCB-1248	12672-29-6	ug/L	0.0078	0.034	<0.53
PCB-1254	11097-69-1	ug/L	0.0078	0.034	<0.53
PCB-1260	11096-82-5	ug/L	0.0078	0.034	<0.53

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
ug/L indicates micrograms per liter.

Table 2d
Groundwater Analytical Results
Metals
ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

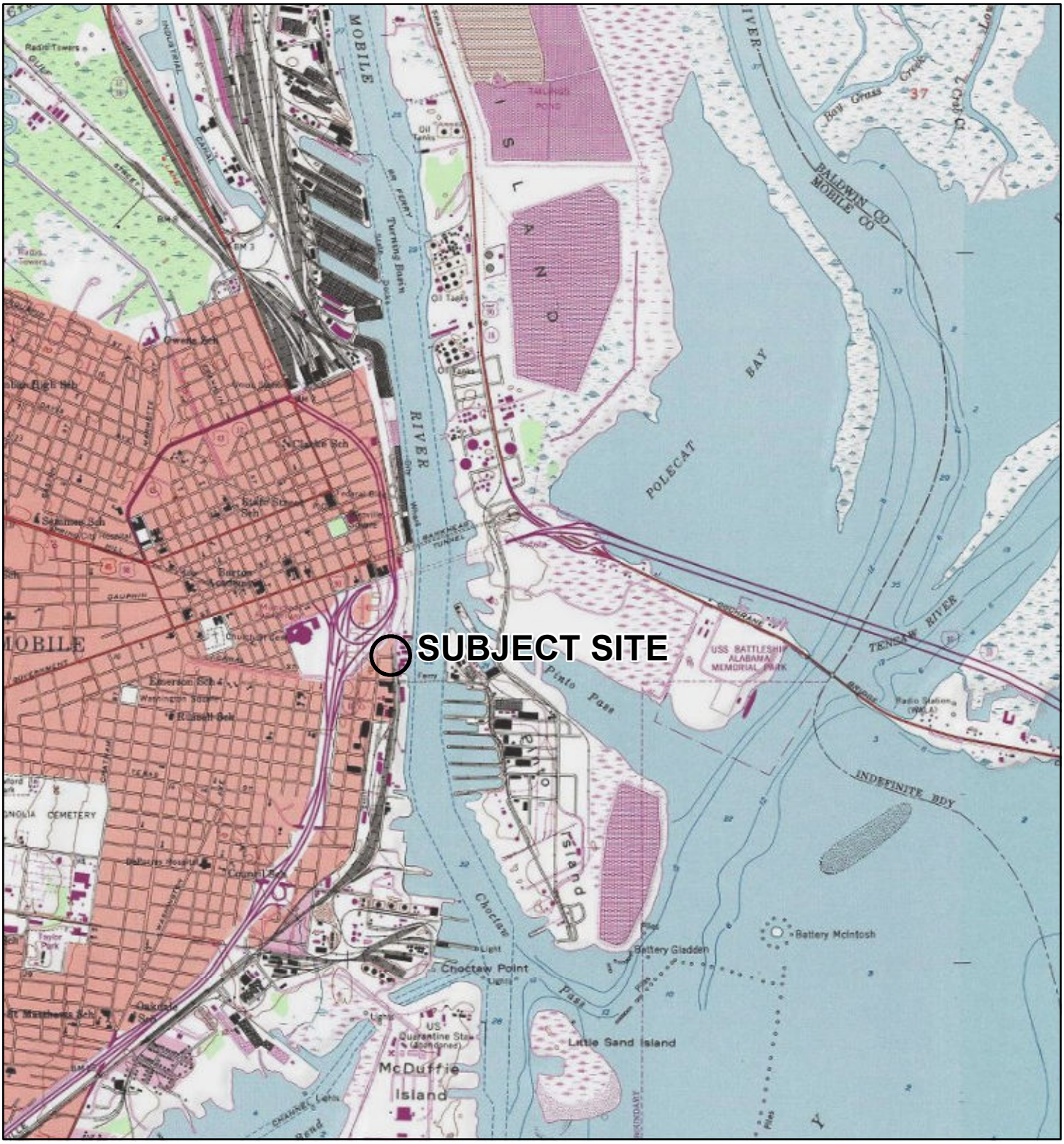
CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Metals					
Antimony	7440-36-0	mg/L	0.006[3]	0.006	<0.050
Arsenic	7440-38-2	mg/L	0.01[3]	0.01	<0.0050
Beryllium	7440-41-7	mg/L	0.004[3]	0.004	<0.0030
Cadmium	7440-43-9	mg/L	0.005[3]	0.005	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.1[3]	0.10	0.02
Copper	7440-50-8	mg/L	1.3[3]	1.30	<0.010
Lead	7439-92-1	mg/L	0.015[3]	0.015	0.013
Mercury	7487-94-7	mg/L	0.002[3]	0.002	<0.20
Nickel	7440-02-0	mg/L	0.039	0.1	<0.0050
Selenium	7782-49-2	mg/L	0.005[3]	0.005	<0.010
Silver	7440-22-4	mg/L	0.0094	0.0018	<0.0050
Thallium	7440-28-0	mg/L	0.002[3]	0.002	<0.010
Zinc	7440-66-6	mg/L	0.6	1.1	<0.020

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
mg/L indicates milligrams per liter.

APPENDIX A

ALDOT (FORMER BENDER) PROPERTY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

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ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 1
SITE VICINITY MAP
ALDOT (Former Bender) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

Parcel Line*

Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 2
AERIAL PHOTOGRAPH
ALDOT (Former Bender) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-1101-0043 ALDOT - Mobile River Bridge - SO\team\GIS\MXD\ALDOT_FIG3.mxd



LEGEND

- Soil Boring (SB)
- Boring /Temporary Well (B/TW)
- Parcel Line*
- Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
ALDOT (Former Bender) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-1101\15-1101-0043 ALDOT - Mobile River Bridge - SO\hearn\GIS\MXD\ALDOT_FIG3.mxd

APPENDIX B

ALDOT (FORMER BENDER) PROPERTY GROUNDWATER FIELD PARAMETER DATA

PROJECT NO.: 15-1101-0043

Groundwater Field Parameter Data

ALDOT (Former Bender) Property
Preliminary Investigation
15-1101-0043

Well I.D.	Total Depth (feet)	Depth to Water Level (feet)	Well Volume (gallon)	Volume Evacuated (gallon)	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	11.8	3.05	0.36	2.52	5.9	23.6	0.605	7.95	18.9

Notes:
1. Measurements presented are the final well volume.
2. Total depth and depth to water level are measured from top of well casing.
3. S.U. - Standard Units
4. oC - Degrees Celcius
5. uS - micro Siemens per Centimeter
6. mg/L-milligrams per liter
7. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

APPENDIX C

ALDOT (FORMER BENDER) PROPERTY SOIL BORING LOGS AND TEMPORARY WELL CONSTRUCTION DETAILS

PROJECT NO.: 15-1101-0043

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AASHTO R18

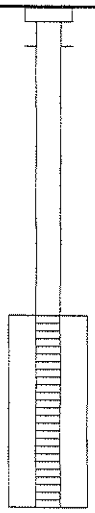
TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 20, 2015 **GR. WATER DEPTH:** 7 ft. bgs

BORING NO.: B-1/TW-1 **LOCATION:** ALDOT (Former Bender) Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		ASPHALT	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Black CLAYEY SAND with ORGANICS			
5					
		Gray fine SAND, saturated			
10					
		B.T. @ 12 ft bgs			
15					
20					
25					
30					
35					

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 19, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-1 **LOCATION:** ALDOT (Former Bender) Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT
		Dark gray SANDY CLAY
		ASPHALT
		WOOD
		Dark gray to gray fine SAND
		saturated
5		
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

APPENDIX D

ALDOT (FORMER BENDER) PROPERTY LABORATORY ANALYTICAL DATA WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105951-1
Client Project/Site: ALDOT Former Bender

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Mr. Steve O'Hearn

Authorized for release by:
6/9/2015 5:22:08 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Thompson Engineering Inc
Project/Site: ALDOT Former Bender

TestAmerica Job ID: 400-105951-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-105951-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105951-1

Comments
No additional comments.

Receipt
The samples were received on 5/21/2015 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259297 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene and Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 258628 recovered outside control limits for the flagged analytes.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259419 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-258556 and analytical batch 400-259419: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and 1,2-Dichlorobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: Surrogate recovery for the following sample was outside control limits: B-1 0'-7' (400-105951-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259618 recovered outside acceptance criteria, low biased, for 4,6-Dinitro-2-methylphenol, 4-Nitrophenol and Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: Due to sample matrix effect on the internal standard (ISTD), a dilution was required for the following sample: B-1 0'-7' (400-105951-2).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The following sample was diluted to bring the concentration of target analytes within the calibration range: SB-1 0'-4' (400-105951-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 245.1, 7470A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Prep Batch 258506 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 7471A, 7471B: The matrix spike duplicate (MSD) recoveries for Prep Batch 258800 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 400-105951-1 (Continued)

Laboratory: TestAmerica Pensacola (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Thompson Engineering Inc
Project/Site: ALDOT Former Bender

TestAmerica Job ID: 400-105951-1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/20/15 13:48
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-1
Matrix: Solid
Percent Solids: 78.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,1,2,2-Tetrachloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,1,2-Trichloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,1-Dichloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,1-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,2-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,2-Dichloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,2-Dichloropropane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,3-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
1,4-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
2-Hexanone	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Acetone	**78**		30		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Benzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Bromoform	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Bromomethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Carbon disulfide	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Carbon tetrachloride	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Chlorobenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Chlorodibromomethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Chloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Chloroform	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Chloromethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
cis-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
cis-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Dichlorobromomethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Ethylbenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
m-Xylene & p-Xylene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
2-Butanone (MEK)	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
o-Xylene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Styrene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Tetrachloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Toluene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
trans-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
trans-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Trichloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Vinyl chloride	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1
Xylenes, Total	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 122*	*06/02/15 11:57*	*06/02/15 19:26*	*1*
Dibromofluoromethane	*102*		*79 - 123*	*06/02/15 11:57*	*06/02/15 19:26*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*06/02/15 11:57*	*06/02/15 19:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
1,4-Dichlorobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
1-Methylnaphthalene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/20/15 13:48
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-1
Matrix: Solid
Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2,4-Dichlorophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2-Chlorophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2-Methylphenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2-Nitroaniline	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2-Nitrophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
3 & 4 Methylphenol	<830		830		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
4-Chloroaniline	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
4-Nitroaniline	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
4-Nitrophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Acenaphthene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Acenaphthylene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Anthracene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Carbazole	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Chrysene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Dibenzofuran	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Diethyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Dimethyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Fluoranthene	**440**		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Fluorene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Hexachlorobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Hexachloroethane	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Isophorone	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/20/15 13:48
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-1
Matrix: Solid
Percent Solids: 78.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Naphthalene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Nitrobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Pentachlorophenol	<830		830		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Phenanthrene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Phenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Pyrene	**440**		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
1,2,4-Trichlorobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
1,2-Dichlorobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1
Dinoseb	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 23:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*62*		*37 - 120*	*05/27/15 07:29*	*06/02/15 23:47*	*1*
Terphenyl-d14 (Surr)	*88*		*36 - 134*	*05/27/15 07:29*	*06/02/15 23:47*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*32 - 133*	*05/27/15 07:29*	*06/02/15 23:47*	*1*
2-Fluorobiphenyl	*50*		*44 - 120*	*05/27/15 07:29*	*06/02/15 23:47*	*1*
2-Fluorophenol (Surr)	*51*		*25 - 120*	*05/27/15 07:29*	*06/02/15 23:47*	*1*
Nitrobenzene-d5 (Surr)	*50*		*27 - 120*	*05/27/15 07:29*	*06/02/15 23:47*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 14:03	05/27/15 12:43	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 14:03	05/27/15 12:43	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 14:03	05/27/15 12:43	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 14:03	05/27/15 12:43	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 14:03	05/27/15 12:43	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 14:03	05/27/15 12:43	1
PCB-1260	**840**		110		ug/Kg	☼	05/22/15 14:03	05/28/15 17:29	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*30 - 150*	*05/22/15 14:03*	*05/27/15 12:43*	*1*
Tetrachloro-m-xylene	*65*		*43 - 142*	*05/22/15 14:03*	*05/27/15 12:43*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Aluminum	**2800**		12		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Arsenic	**1.3**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Cadmium	**1.0**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Chromium	**6.6**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Copper	**42**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Nickel	**4.9**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Lead	**110**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Antimony	<6.0		6.0		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1

Client Sample ID: SB-1 0'-4'

Lab Sample ID: 400-105951-1
Date Collected: 05/20/15 13:48
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 78.6

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	130		2.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.020		mg/Kg	☼	05/28/15 09:07	06/02/15 09:33	1

Client Sample ID: B-1 0'-7'

Lab Sample ID: 400-105951-2
Date Collected: 05/20/15 13:58
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 71.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,1,2,2-Tetrachloroethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,1,2-Trichloroethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,1-Dichloroethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,1-Dichloroethene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,2-Dichlorobenzene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,2-Dichloroethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,2-Dichloropropane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,3-Dichlorobenzene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
1,4-Dichlorobenzene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
2-Hexanone	<39		39		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Acetone	110		39		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Benzene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Bromoform	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Bromomethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Carbon disulfide	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Carbon tetrachloride	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Chlorobenzene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Chlorodibromomethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Chloroethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Chloroform	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Chloromethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
cis-1,2-Dichloroethene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
cis-1,3-Dichloropropene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Dichlorobromomethane	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Ethylbenzene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
m-Xylene & p-Xylene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
2-Butanone (MEK)	<39		39		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
4-Methyl-2-pentanone (MIBK)	<39		39		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Methylene Chloride	<23		23		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
o-Xylene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Styrene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Tetrachloroethene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Toluene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
trans-1,2-Dichloroethene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
trans-1,3-Dichloropropene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Trichloroethene	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1
Vinyl chloride	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1

Client: Thompson Engineering Inc
Project/Site: ALDOT Former Bender

TestAmerica Job ID: 400-105951-1

Client Sample ID: B-1 0'-7'
Date Collected: 05/20/15 13:58
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-2
Matrix: Solid
Percent Solids: 71.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<7.8		7.8		ug/Kg	☼	06/02/15 11:57	06/02/15 19:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*117*		*72 - 122*	*06/02/15 11:57*	*06/02/15 19:50*	*1*
Dibromofluoromethane	*101*		*79 - 123*	*06/02/15 11:57*	*06/02/15 19:50*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/02/15 11:57*	*06/02/15 19:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<4600	*	4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
1,4-Dichlorobenzene	<4600	*	4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
1-Methylnaphthalene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2,4,5-Trichlorophenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2,4,6-Trichlorophenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2,4-Dichlorophenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2,4-Dimethylphenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2,4-Dinitrophenol	<14000		14000		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2-Chlorophenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2-Methylnaphthalene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2-Methylphenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2-Nitroaniline	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2-Nitrophenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
3 & 4 Methylphenol	<9100		9100		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
3,3'-Dichlorobenzidine	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
4,6-Dinitro-2-methylphenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
4-Bromophenyl phenyl ether	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
4-Chloro-3-methylphenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
4-Chloroaniline	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
4-Chlorophenyl phenyl ether	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
4-Nitroaniline	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
4-Nitrophenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Acenaphthene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Acenaphthylene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Anthracene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Benzidine	<14000		14000		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Benzo[a]anthracene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Benzo[a]pyrene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Benzo[b]fluoranthene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Benzo[g,h,i]perylene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Benzo[k]fluoranthene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Bis(2-chloroethoxy)methane	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Bis(2-chloroethyl)ether	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Bis(2-ethylhexyl) phthalate	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Butyl benzyl phthalate	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Carbazole	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Chrysene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Di-n-butyl phthalate	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Di-n-octyl phthalate	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Dibenz(a,h)anthracene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Dibenzofuran	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10

Client Sample ID: B-1 0'-7'
Date Collected: 05/20/15 13:58
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-2
Matrix: Solid
Percent Solids: 71.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Dimethyl phthalate	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Fluoranthene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Fluorene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Hexachlorobenzene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Hexachlorobutadiene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Hexachlorocyclopentadiene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Hexachloroethane	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Indeno[1,2,3-cd]pyrene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Isophorone	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
N-Nitrosodi-n-propylamine	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
N-Nitrosodimethylamine	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
N-Nitrosodiphenylamine	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Naphthalene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Nitrobenzene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Pentachlorophenol	<9100		9100		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Phenanthrene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Phenol	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Pyrene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
1,2,4-Trichlorobenzene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
1,2-Dichlorobenzene	<4600	*	4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2,4-Dinitrotoluene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
2,6-Dinitrotoluene	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10
Dinoseb	<4600		4600		ug/Kg	☼	05/27/15 07:29	06/04/15 00:16	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*77*		*37 - 120*	*05/27/15 07:29*	*06/04/15 00:16*	*10*
Terphenyl-d14 (Surr)	*136*	*X*	*36 - 134*	*05/27/15 07:29*	*06/04/15 00:16*	*10*
2,4,6-Tribromophenol (Surr)	*115*		*32 - 133*	*05/27/15 07:29*	*06/04/15 00:16*	*10*
2-Fluorobiphenyl	*92*		*44 - 120*	*05/27/15 07:29*	*06/04/15 00:16*	*10*
2-Fluorophenol (Surr)	*67*		*25 - 120*	*05/27/15 07:29*	*06/04/15 00:16*	*10*
Nitrobenzene-d5 (Surr)	*94*		*27 - 120*	*05/27/15 07:29*	*06/04/15 00:16*	*10*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<12		12		ug/Kg	☼	05/22/15 14:03	05/27/15 13:09	1
PCB-1221	<12		12		ug/Kg	☼	05/22/15 14:03	05/27/15 13:09	1
PCB-1232	<12		12		ug/Kg	☼	05/22/15 14:03	05/27/15 13:09	1
PCB-1242	<12		12		ug/Kg	☼	05/22/15 14:03	05/27/15 13:09	1
PCB-1248	<12		12		ug/Kg	☼	05/22/15 14:03	05/27/15 13:09	1
PCB-1254	<12		12		ug/Kg	☼	05/22/15 14:03	05/27/15 13:09	1
PCB-1260	**110**		12		ug/Kg	☼	05/22/15 14:03	05/27/15 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*30 - 150*	*05/22/15 14:03*	*05/27/15 13:09*	*1*
Tetrachloro-m-xylene	*64*		*43 - 142*	*05/22/15 14:03*	*05/27/15 13:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.68		0.68		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1

Client Sample ID: B-1 0'-7'

Lab Sample ID: 400-105951-2
Date Collected: 05/20/15 13:58
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 71.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	**5800**		14		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Arsenic	**4.2**		0.68		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Beryllium	<0.41		0.41		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Cadmium	**5.2**		0.68		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Chromium	**16**		1.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Copper	**300**		1.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Nickel	**28**		0.68		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Lead	**860**		0.68		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Antimony	<6.8		6.8		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Selenium	<1.4		1.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Thallium	<1.4		1.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1
Zinc	**590**		2.7		mg/Kg	☼	05/28/15 12:39	05/30/15 13:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.20**	**F1**	0.020		mg/Kg	☼	05/28/15 09:07	06/02/15 09:35	1

Client Sample ID: TW-1

Lab Sample ID: 400-105951-3
Date Collected: 05/21/15 10:22
Matrix: Water
Date Received: 05/21/15 15:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 18:00	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 18:00	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 18:00	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 18:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:00	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:00	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 18:00	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 18:00	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:00	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:00	1
2-Hexanone	<25		25		ug/L			05/30/15 18:00	1
Acetone	<25		25		ug/L			05/30/15 18:00	1
Benzene	<1.0		1.0		ug/L			05/30/15 18:00	1
Bromoform	<5.0		5.0		ug/L			05/30/15 18:00	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 18:00	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 18:00	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 18:00	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 18:00	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 18:00	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 18:00	1
Chloroform	<1.0		1.0		ug/L			05/30/15 18:00	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 18:00	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:00	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 18:00	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 18:00	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 18:00	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 18:00	1

Client Sample ID: TW-1
Date Collected: 05/21/15 10:22
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Butanone (MEK)	<25		25		ug/L			05/30/15 18:00	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 18:00	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 18:00	1
o-Xylene	<5.0		5.0		ug/L			05/30/15 18:00	1
Styrene	<1.0		1.0		ug/L			05/30/15 18:00	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 18:00	1
Toluene	<1.0		1.0		ug/L			05/30/15 18:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:00	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 18:00	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 18:00	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 18:00	1
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 18:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*05/30/15 18:00*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/30/15 18:00*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*05/30/15 18:00*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
1,4-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
1-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2,4-Dichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2,4-Dimethylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2,4-Dinitrophenol	<32		32		ug/L		05/27/15 11:27	06/01/15 21:53	1
2-Chlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2-Methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2-Nitrophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
3 & 4 Methylphenol	<21		21		ug/L		05/27/15 11:27	06/01/15 21:53	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
4-Bromophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
4-Chloroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
4-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
4-Nitrophenol	<11	*	11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Acenaphthene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Acenaphthylene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Benzidine	<26	*	26		ug/L		05/27/15 11:27	06/01/15 21:53	1
Benzo[a]anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Benzo[a]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Benzo[b]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1

Client Sample ID: TW-1
Date Collected: 05/21/15 10:22
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[k]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Butyl benzyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Carbazole	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Chrysene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Di-n-butyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Di-n-octyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Dibenzofuran	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Diethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Dimethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Fluorene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Hexachlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Hexachlorobutadiene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Hexachlorocyclopentadiene	<21		21		ug/L		05/27/15 11:27	06/01/15 21:53	1
Hexachloroethane	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Isophorone	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
N-Nitrosodimethylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Naphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Nitrobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Pentachlorophenol	<21		21		ug/L		05/27/15 11:27	06/01/15 21:53	1
Phenanthrene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Phenol	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
1,2,4-Trichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
1,2-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2,4-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
2,6-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1
Dinoseb	<11		11		ug/L		05/27/15 11:27	06/01/15 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*64*		*10 - 120*	*05/27/15 11:27*	*06/01/15 21:53*	*1*
Terphenyl-d14 (Surr)	*82*		*53 - 125*	*05/27/15 11:27*	*06/01/15 21:53*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*15 - 135*	*05/27/15 11:27*	*06/01/15 21:53*	*1*
2-Fluorobiphenyl	*85*		*34 - 120*	*05/27/15 11:27*	*06/01/15 21:53*	*1*
2-Fluorophenol (Surr)	*59*		*10 - 120*	*05/27/15 11:27*	*06/01/15 21:53*	*1*
Nitrobenzene-d5 (Surr)	*86*		*27 - 120*	*05/27/15 11:27*	*06/01/15 21:53*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 18:21	1
PCB-1221	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 18:21	1
PCB-1232	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 18:21	1
PCB-1242	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 18:21	1

Client: Thompson Engineering Inc
Project/Site: ALDOT Former Bender

TestAmerica Job ID: 400-105951-1

Client Sample ID: TW-1
Date Collected: 05/21/15 10:22
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-3
Matrix: Water

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1248	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 18:21	1
PCB-1254	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 18:21	1
PCB-1260	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*10 - 125*	*05/26/15 14:10*	*05/27/15 18:21*	*1*
Tetrachloro-m-xylene	*81*		*46 - 150*	*05/26/15 14:10*	*05/27/15 18:21*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/23/15 10:35	05/26/15 16:02	1
Arsenic	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:02	1
Beryllium	<0.0030		0.0030		mg/L		05/23/15 10:35	05/26/15 16:02	1
Cadmium	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:02	1
Chromium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:02	1
Copper	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:02	1
Lead	**0.013**		0.0050		mg/L		05/23/15 10:35	05/26/15 16:02	1
Nickel	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:02	1
Selenium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:02	1
Silver	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:02	1
Thallium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:02	1
Zinc	<0.020		0.020		mg/L		05/23/15 10:35	05/26/15 16:02	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/26/15 15:21	05/28/15 13:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-259157/4
Matrix: Water
Analysis Batch: 259157

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 11:58	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
2-Hexanone	<25		25		ug/L			05/30/15 11:58	1
Acetone	<25		25		ug/L			05/30/15 11:58	1
Benzene	<1.0		1.0		ug/L			05/30/15 11:58	1
Bromoform	<5.0		5.0		ug/L			05/30/15 11:58	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 11:58	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 11:58	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 11:58	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 11:58	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
Chloroform	<1.0		1.0		ug/L			05/30/15 11:58	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 11:58	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 11:58	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 11:58	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 11:58	1
2-Butanone (MEK)	<25		25		ug/L			05/30/15 11:58	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 11:58	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 11:58	1
o-Xylene	<5.0		5.0		ug/L			05/30/15 11:58	1
Styrene	<1.0		1.0		ug/L			05/30/15 11:58	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
Toluene	<1.0		1.0		ug/L			05/30/15 11:58	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 11:58	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 11:58	1
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*05/30/15 11:58*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*05/30/15 11:58*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*05/30/15 11:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259157/1002
Matrix: Water
Analysis Batch: 259157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	43.8		ug/L		88	66 - 130
1,1,2,2-Tetrachloroethane	50.0	54.6		ug/L		109	68 - 132
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	44.7		ug/L		89	75 - 126
1,1-Dichloroethene	50.0	42.1		ug/L		84	50 - 134
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 121
1,2-Dichloroethane	50.0	49.3		ug/L		99	69 - 128
1,2-Dichloropropane	50.0	45.0		ug/L		90	77 - 126
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	77 - 124
1,4-Dichlorobenzene	50.0	52.1		ug/L		104	79 - 120
2-Hexanone	200	213		ug/L		106	60 - 150
Acetone	200	221		ug/L		110	24 - 150
Benzene	50.0	43.8		ug/L		88	79 - 120
Bromoform	50.0	60.5		ug/L		121	65 - 121
Bromomethane	50.0	44.0		ug/L		88	10 - 150
Carbon disulfide	50.0	42.3		ug/L		85	41 - 140
Carbon tetrachloride	50.0	46.1		ug/L		92	46 - 141
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120
Chlorodibromomethane	50.0	51.3		ug/L		103	63 - 125
Chloroethane	50.0	46.7		ug/L		93	37 - 150
Chloroform	50.0	45.4		ug/L		91	73 - 122
Chloromethane	50.0	46.4		ug/L		93	49 - 141
cis-1,2-Dichloroethene	50.0	46.7		ug/L		93	78 - 122
cis-1,3-Dichloropropene	50.0	45.5		ug/L		91	70 - 122
Dichlorobromomethane	50.0	48.3		ug/L		97	75 - 127
Ethylbenzene	50.0	48.4		ug/L		97	80 - 120
m-Xylene & p-Xylene	50.0	48.1		ug/L		96	70 - 130
2-Butanone (MEK)	200	203		ug/L		101	62 - 137
4-Methyl-2-pentanone (MIBK)	200	183		ug/L		91	63 - 150
Methylene Chloride	50.0	47.0		ug/L		94	70 - 130
o-Xylene	50.0	46.0		ug/L		92	70 - 130
Styrene	50.0	46.9		ug/L		94	79 - 124
Tetrachloroethene	50.0	47.4		ug/L		95	76 - 124
Toluene	50.0	48.7		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	42.7		ug/L		85	70 - 126
trans-1,3-Dichloropropene	50.0	50.1		ug/L		100	64 - 120
Trichloroethene	50.0	43.4		ug/L		87	77 - 120
Vinyl chloride	50.0	44.9		ug/L		90	60 - 128
Xylenes, Total	100	94.1		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*108*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259530/1-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Hexanone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Acetone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Benzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromoform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloromethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Butanone (MEK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Methylene Chloride	<15		15		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
o-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Styrene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Toluene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Trichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 122*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 12:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259530/2-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	72 - 121
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	67 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	75 - 118
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	61 - 128
1,1-Dichloroethene	50.0	48.7		ug/Kg		97	62 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	76 - 120
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	64 - 129
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	78 - 118
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	77 - 118
2-Hexanone	200	203		ug/Kg		102	54 - 140
Acetone	200	193		ug/Kg		96	43 - 150
Benzene	50.0	48.6		ug/Kg		97	74 - 119
Bromoform	50.0	48.2		ug/Kg		96	54 - 125
Bromomethane	50.0	55.9		ug/Kg		112	25 - 150
Carbon disulfide	50.0	44.4		ug/Kg		89	26 - 150
Carbon tetrachloride	50.0	49.8		ug/Kg		100	70 - 128
Chlorobenzene	50.0	47.9		ug/Kg		96	80 - 116
Chlorodibromomethane	50.0	50.2		ug/Kg		100	65 - 131
Chloroethane	50.0	51.2		ug/Kg		102	22 - 150
Chloroform	50.0	48.9		ug/Kg		98	74 - 119
Chloromethane	50.0	50.3		ug/Kg		101	36 - 147
cis-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	68 - 126
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 125
Dichlorobromomethane	50.0	49.2		ug/Kg		98	68 - 128
Ethylbenzene	50.0	49.3		ug/Kg		99	78 - 120
m-Xylene & p-Xylene	50.0	48.8		ug/Kg		98	70 - 120
2-Butanone (MEK)	200	205		ug/Kg		103	62 - 126
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	56 - 137
Methylene Chloride	50.0	45.4		ug/Kg		91	45 - 150
o-Xylene	50.0	49.3		ug/Kg		99	70 - 120
Styrene	50.0	49.0		ug/Kg		98	66 - 132
Tetrachloroethene	50.0	47.1		ug/Kg		94	74 - 126
Toluene	50.0	47.8		ug/Kg		96	76 - 120
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	65 - 130
trans-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	65 - 126
Trichloroethene	50.0	48.6		ug/Kg		97	76 - 122
Vinyl chloride	50.0	52.1		ug/Kg		104	52 - 134
Xylenes, Total	100	98.1		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*101*		*79 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Chlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzidine	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Carbazole	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Chrysene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenzofuran	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Diethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dimethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluorene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobutadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Isophorone	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Naphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Nitrobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pentachlorophenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenanthrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dinoseb	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Terphenyl-d14 (Surr)	*113*		*36 - 134*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 133*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorobiphenyl	*73*		*44 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorophenol (Surr)	*31*		*25 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Nitrobenzene-d5 (Surr)	*31*		*27 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	531	*	ug/Kg		53	58 - 120
1-Methylnaphthalene	1000	861		ug/Kg		86	66 - 120
2,4,5-Trichlorophenol	1000	933		ug/Kg		93	62 - 120
2,4,6-Trichlorophenol	1000	901		ug/Kg		90	59 - 120
2,4-Dichlorophenol	1000	930		ug/Kg		93	67 - 120
2,4-Dimethylphenol	1000	895		ug/Kg		89	65 - 120
2,4-Dinitrophenol	2610	2420		ug/Kg		93	23 - 124
2-Chlorophenol	1000	816		ug/Kg		82	60 - 120
2-Nitrophenol	1000	816		ug/Kg		82	56 - 120
Acenaphthene	1000	883		ug/Kg		88	62 - 120
Acenaphthylene	1000	913		ug/Kg		91	61 - 120
Anthracene	1000	983		ug/Kg		98	68 - 120
Benzo[a]anthracene	1000	958		ug/Kg		96	67 - 120
Benzo[a]pyrene	1000	997		ug/Kg		100	64 - 120
Benzo[b]fluoranthene	1000	1030		ug/Kg		103	58 - 121
Benzo[g,h,i]perylene	1000	833		ug/Kg		83	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	849		ug/Kg		85	60 - 120
Bis(2-chloroethyl)ether	1000	650		ug/Kg		65	55 - 120
Bis(2-ethylhexyl) phthalate	1000	946		ug/Kg		95	59 - 136
Butyl benzyl phthalate	1000	979		ug/Kg		98	55 - 135
Carbazole	1000	1100		ug/Kg		110	69 - 121
Chrysene	1000	923		ug/Kg		92	65 - 120
Di-n-butyl phthalate	1000	1000		ug/Kg		100	67 - 132
Di-n-octyl phthalate	1000	791		ug/Kg		79	58 - 132
Dibenz(a,h)anthracene	1000	848		ug/Kg		85	58 - 130
Dibenzofuran	1000	921		ug/Kg		92	65 - 120
Diethyl phthalate	1000	965		ug/Kg		96	62 - 124
Dimethyl phthalate	1000	949		ug/Kg		95	52 - 123
Fluoranthene	1000	973		ug/Kg		97	67 - 123
Fluorene	1000	976		ug/Kg		98	64 - 120
Hexachlorobenzene	1000	962		ug/Kg		96	57 - 131
Hexachlorobutadiene	1000	698		ug/Kg		70	56 - 120
Hexachlorocyclopentadiene	1000	867		ug/Kg		87	1 - 153
Hexachloroethane	1000	529		ug/Kg		53	53 - 120
Indeno[1,2,3-cd]pyrene	1000	854		ug/Kg		85	55 - 133
Isophorone	1000	847		ug/Kg		85	63 - 120
N-Nitrosodi-n-propylamine	1000	858		ug/Kg		86	34 - 150
N-Nitrosodimethylamine	1000	537		ug/Kg		54	26 - 140
N-Nitrosodiphenylamine	2000	1920		ug/Kg		96	16 - 160
Naphthalene	1000	755		ug/Kg		76	59 - 120
Nitrobenzene	1000	766		ug/Kg		77	53 - 125
Pentachlorophenol	2000	1830		ug/Kg		91	30 - 136
Phenanthrene	1000	953		ug/Kg		95	62 - 130
Phenol	1000	864		ug/Kg		86	54 - 120
Pyrene	1000	1050		ug/Kg		105	57 - 127
1,2,4-Trichlorobenzene	1000	728		ug/Kg		73	62 - 120
1,2-Dichlorobenzene	1000	575	*	ug/Kg		57	58 - 120
2,4-Dinitrotoluene	1000	981		ug/Kg		98	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*37 - 120*
Terphenyl-d14 (Surr)	*107*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*106*		*32 - 133*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*25 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,4-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4,5-Trichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4,6-Trichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dimethylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dinitrophenol	<30		30		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Chlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Methylnaphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Nitroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Nitrophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
3 & 4 Methylphenol	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
3,3'-Dichlorobenzidine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Bromophenyl phenyl ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chloro-3-methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chloroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Nitroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Nitrophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Acenaphthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Acenaphthylene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzidine	<25		25		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[a]anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[a]pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[b]fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[g,h,i]perylene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[k]fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-chloroethyl)ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Butyl benzyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Carbazole	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Chrysene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Di-n-butyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Di-n-octyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dibenz(a,h)anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dibenzofuran	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Diethyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dimethyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Fluorene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorobutadiene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorocyclopentadiene	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachloroethane	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodimethylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodiphenylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Naphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Nitrobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Pentachlorophenol	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
Phenanthrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Phenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,2,4-Trichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,2-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dinitrotoluene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,6-Dinitrotoluene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dinoseb	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*81*		*10 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
Terphenyl-d14 (Surr)	*115*		*53 - 125*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*15 - 135*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2-Fluorobiphenyl	*89*		*34 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2-Fluorophenol (Surr)	*71*		*10 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
Nitrobenzene-d5 (Surr)	*92*		*27 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*

Lab Sample ID: LCS 400-258628/2-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	30.0	18.6		ug/L		62	51 - 120
1-Methylnaphthalene	30.0	25.9		ug/L		86	59 - 120
2,4,5-Trichlorophenol	30.0	27.4		ug/L		91	53 - 130
2,4,6-Trichlorophenol	30.0	27.1		ug/L		90	52 - 131
2,4-Dichlorophenol	30.0	27.6		ug/L		92	52 - 125
2,4-Dimethylphenol	30.0	25.0		ug/L		83	52 - 121
2,4-Dinitrophenol	78.4	76.1		ug/L		97	22 - 146
2-Chlorophenol	30.0	22.9		ug/L		76	45 - 120
2-Nitrophenol	30.0	25.6		ug/L		85	47 - 129
Acenaphthene	30.0	26.7		ug/L		89	57 - 125
Acenaphthylene	30.0	27.1		ug/L		90	59 - 125
Anthracene	30.0	28.1		ug/L		94	65 - 128
Benzo[a]anthracene	30.0	26.2		ug/L		87	63 - 126
Benzo[a]pyrene	30.0	26.9		ug/L		90	61 - 125
Benzo[b]fluoranthene	30.0	26.9		ug/L		90	49 - 140
Benzo[g,h,i]perylene	30.0	26.8		ug/L		89	51 - 149
Benzo[k]fluoranthene	30.0	26.4		ug/L		88	56 - 138
Bis(2-chloroethoxy)methane	30.0	26.5		ug/L		88	54 - 123
Bis(2-chloroethyl)ether	30.0	24.7		ug/L		82	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258628/2-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	30.0	26.8		ug/L		89	62 - 140
Butyl benzyl phthalate	30.0	25.2		ug/L		84	51 - 150
Carbazole	30.0	32.4		ug/L		108	57 - 136
Chrysene	30.0	26.0		ug/L		87	60 - 126
Di-n-butyl phthalate	30.0	27.8		ug/L		93	59 - 144
Di-n-octyl phthalate	30.0	26.1		ug/L		87	55 - 140
Dibenz(a,h)anthracene	30.0	27.0		ug/L		90	57 - 133
Dibenzofuran	30.0	27.4		ug/L		91	62 - 124
Diethyl phthalate	30.0	26.9		ug/L		90	55 - 140
Dimethyl phthalate	30.0	27.5		ug/L		92	50 - 133
Fluoranthene	30.0	29.1		ug/L		97	66 - 131
Fluorene	30.0	28.2		ug/L		94	60 - 132
Hexachlorobenzene	30.0	27.7		ug/L		92	60 - 138
Hexachlorobutadiene	30.0	20.1		ug/L		67	48 - 126
Hexachlorocyclopentadiene	30.0	13.2	J	ug/L		44	1 - 139
Hexachloroethane	30.0	16.2		ug/L		54	46 - 121
Indeno[1,2,3-cd]pyrene	30.0	27.5		ug/L		92	55 - 135
Isophorone	30.0	26.2		ug/L		87	57 - 122
N-Nitrosodi-n-propylamine	30.0	25.5		ug/L		85	41 - 143
N-Nitrosodimethylamine	30.0	21.4		ug/L		71	21 - 134
N-Nitrosodiphenylamine	60.0	55.4		ug/L		92	10 - 185
Naphthalene	30.0	23.6		ug/L		79	55 - 125
Nitrobenzene	30.0	25.3		ug/L		84	52 - 128
Pentachlorophenol	60.0	56.9		ug/L		95	38 - 138
Phenanthrene	30.0	27.1		ug/L		90	64 - 133
Phenol	30.0	23.2		ug/L		77	37 - 120
Pyrene	30.0	25.0		ug/L		83	55 - 142
1,2,4-Trichlorobenzene	30.0	21.7		ug/L		72	57 - 120
1,2-Dichlorobenzene	30.0	19.5		ug/L		65	53 - 120
2,4-Dinitrotoluene	30.0	28.4		ug/L		95	54 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*82*		*10 - 120*
Terphenyl-d14 (Surr)	*91*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*112*		*15 - 135*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol (Surr)	*58*		*10 - 120*
Nitrobenzene-d5 (Surr)	*88*		*27 - 120*

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	30.0	20.8		ug/L		69	51 - 120	11	30
1-Methylnaphthalene	30.0	26.2		ug/L		87	59 - 120	1	30
2,4,5-Trichlorophenol	30.0	26.0		ug/L		87	53 - 130	5	30
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol			30.0	25.9		ug/L		86	52 - 125	7	30
2,4-Dimethylphenol			30.0	22.9		ug/L		76	52 - 121	9	30
2,4-Dinitrophenol			78.4	67.9		ug/L		87	22 - 146	11	30
2-Chlorophenol			30.0	22.6		ug/L		75	45 - 120	2	30
2-Nitrophenol			30.0	24.5		ug/L		82	47 - 129	5	30
Acenaphthene			30.0	26.5		ug/L		88	57 - 125	1	30
Acenaphthylene			30.0	26.8		ug/L		89	59 - 125	1	30
Anthracene			30.0	27.6		ug/L		92	65 - 128	2	30
Benzo[a]anthracene			30.0	26.1		ug/L		87	63 - 126	0	30
Benzo[a]pyrene			30.0	26.4		ug/L		88	61 - 125	2	30
Benzo[b]fluoranthene			30.0	27.1		ug/L		90	49 - 140	1	30
Benzo[g,h,i]perylene			30.0	25.9		ug/L		86	51 - 149	3	30
Benzo[k]fluoranthene			30.0	26.8		ug/L		89	56 - 138	1	30
Bis(2-chloroethoxy)methane			30.0	25.3		ug/L		84	54 - 123	4	30
Bis(2-chloroethyl)ether			30.0	22.6		ug/L		75	47 - 120	9	30
Bis(2-ethylhexyl) phthalate			30.0	27.7		ug/L		92	62 - 140	3	30
Butyl benzyl phthalate			30.0	25.8		ug/L		86	51 - 150	2	30
Carbazole			30.0	31.2		ug/L		104	57 - 136	4	30
Chrysene			30.0	25.7		ug/L		86	60 - 126	1	30
Di-n-butyl phthalate			30.0	27.7		ug/L		92	59 - 144	1	30
Di-n-octyl phthalate			30.0	25.6		ug/L		85	55 - 140	2	30
Dibenz(a,h)anthracene			30.0	26.2		ug/L		87	57 - 133	3	30
Dibenzofuran			30.0	27.1		ug/L		90	62 - 124	1	30
Diethyl phthalate			30.0	26.0		ug/L		87	55 - 140	3	30
Dimethyl phthalate			30.0	26.2		ug/L		87	50 - 133	5	30
Fluoranthene			30.0	28.1		ug/L		94	66 - 131	4	30
Fluorene			30.0	27.7		ug/L		92	60 - 132	2	30
Hexachlorobenzene			30.0	28.1		ug/L		94	60 - 138	1	30
Hexachlorobutadiene			30.0	23.4		ug/L		78	48 - 126	15	30
Hexachlorocyclopentadiene			30.0	12.1	J	ug/L		40	1 - 139	8	30
Hexachloroethane			30.0	19.1		ug/L		64	46 - 121	16	30
Indeno[1,2,3-cd]pyrene			30.0	26.5		ug/L		88	55 - 135	4	30
Isophorone			30.0	25.5		ug/L		85	57 - 122	2	30
N-Nitrosodi-n-propylamine			30.0	24.9		ug/L		83	41 - 143	3	30
N-Nitrosodimethylamine			30.0	19.3		ug/L		64	21 - 134	10	30
N-Nitrosodiphenylamine			60.0	54.2		ug/L		90	10 - 185	2	30
Naphthalene			30.0	24.1		ug/L		80	55 - 125	2	30
Nitrobenzene			30.0	24.6		ug/L		82	52 - 128	3	30
Pentachlorophenol			60.0	55.3		ug/L		92	38 - 138	3	30
Phenanthrene			30.0	26.8		ug/L		89	64 - 133	1	30
Phenol			30.0	19.1		ug/L		64	37 - 120	19	30
Pyrene			30.0	25.8		ug/L		86	55 - 142	3	30
1,2,4-Trichlorobenzene			30.0	23.5		ug/L		78	57 - 120	8	30
1,2-Dichlorobenzene			30.0	21.4		ug/L		71	53 - 120	9	30
2,4-Dinitrotoluene			30.0	27.4		ug/L		91	54 - 141	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*66*		*10 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*93*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*103*		*15 - 135*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol (Surr)	*64*		*10 - 120*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-258140/19-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1221	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1232	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1242	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1248	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1254	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1260	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*30 - 150*	*05/22/15 08:08*	*05/27/15 03:44*	*1*
Tetrachloro-m-xylene	*53*		*43 - 142*	*05/22/15 08:08*	*05/27/15 03:44*	*1*

Lab Sample ID: LCS 400-258140/18-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	176		ug/Kg		105	54 - 126
PCB-1260	167	205		ug/Kg		123	56 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*30 - 150*
Tetrachloro-m-xylene	*99*		*43 - 142*

Lab Sample ID: MB 400-258405/1-A
Matrix: Water
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1221	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1232	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1242	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1248	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 400-258405/1-A
Matrix: Water
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1260	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*10 - 125*	*05/26/15 08:19*	*05/27/15 16:38*	*1*
Tetrachloro-m-xylene	*89*		*46 - 150*	*05/26/15 08:19*	*05/27/15 16:38*	*1*

Lab Sample ID: LCS 400-258405/4-A
Matrix: Water
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258405

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	5.11		ug/L		102	54 - 126		
PCB-1260			5.00	4.88		ug/L		98	56 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*48*		*10 - 125*
Tetrachloro-m-xylene	*92*		*46 - 150*

Lab Sample ID: LCSD 400-258405/5-A
Matrix: Water
Analysis Batch: 258518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258405

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	4.92		ug/L		98	54 - 126	4	40
PCB-1260			5.00	4.90		ug/L		98	56 - 139	0	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*10 - 125*
Tetrachloro-m-xylene	*86*		*46 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<10		10		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Arsenic	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Beryllium	<0.30		0.30		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Cadmium	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Chromium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Copper	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Nickel	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Lead	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Antimony	<5.0		5.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Selenium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Thallium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Zinc	<2.0		2.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Lab Sample ID: LCS 400-258853/2-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	989	1010		mg/Kg		102	80 - 120
Arsenic	98.9	97.5		mg/Kg		99	80 - 120
Beryllium	49.4	50.9		mg/Kg		103	80 - 120
Cadmium	49.4	47.9		mg/Kg		97	80 - 120
Chromium	98.9	101		mg/Kg		102	80 - 120
Copper	98.9	103		mg/Kg		104	80 - 120
Nickel	98.9	96.1		mg/Kg		97	80 - 120
Lead	98.9	97.1		mg/Kg		98	80 - 120
Antimony	98.9	97.8		mg/Kg		99	80 - 120
Silver	49.4	51.1		mg/Kg		103	80 - 120
Selenium	98.9	95.3		mg/Kg		96	80 - 120
Thallium	98.9	97.6		mg/Kg		99	80 - 120
Zinc	98.9	101		mg/Kg		102	80 - 120

Lab Sample ID: MB 400-258303/1-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Beryllium	<0.0030		0.0030		mg/L		05/23/15 10:35	05/26/15 15:19	1
Cadmium	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Chromium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Copper	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Nickel	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Lead	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Antimony	<0.050		0.050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Silver	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Selenium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Thallium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Zinc	<0.020		0.020		mg/L		05/23/15 10:35	05/26/15 15:19	1

Lab Sample ID: LCS 400-258303/2-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.10		mg/L		110	80 - 120
Beryllium	0.500	0.541		mg/L		108	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-258303/2-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.541		mg/L		108	80 - 120
Chromium	1.00	1.08		mg/L		108	80 - 120
Copper	1.00	1.11		mg/L		111	80 - 120
Nickel	1.00	1.07		mg/L		107	80 - 120
Lead	1.00	1.07		mg/L		107	80 - 120
Antimony	1.00	1.08		mg/L		108	80 - 120
Silver	0.500	0.544		mg/L		109	80 - 120
Selenium	1.00	1.10		mg/L		110	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Zinc	1.00	1.15		mg/L		115	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-258506/13-A
Matrix: Water
Analysis Batch: 258898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/26/15 15:12	05/28/15 13:24	1

Lab Sample ID: LCS 400-258506/14-A
Matrix: Water
Analysis Batch: 258898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	1.11		ug/L		110	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-258800/14-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		05/28/15 09:07	06/02/15 09:27	1

Lab Sample ID: LCS 400-258800/15-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0670	0.0714		mg/Kg		107	80 - 120

Lab Sample ID: 400-105951-2 MS
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: B-1 0'-7'
Prep Type: Total/NA
Prep Batch: 258800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.20	F1	0.214	0.434		mg/Kg	☼	109	80 - 120

Client: Thompson Engineering Inc
Project/Site: ALDOT Former Bender

TestAmerica Job ID: 400-105951-1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: 400-105951-2 MSD
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: B-1 0'-7'
Prep Type: Total/NA
Prep Batch: 258800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.20	F1	0.221	0.484	F1	mg/Kg	☼	129	80 - 120	11	20

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: ALDOT Former Bender

TestAmerica Job ID: 400-105951-1

Client Sample ID: SB-1 0'-4'

Lab Sample ID: 400-105951-1
Date Collected: 05/20/15 13:48
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 78.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 19:26	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 23:47	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 14:03	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 12:43	MAM	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 14:03	RDT	TAL PEN
Total/NA	Analysis	8082A		10	258992	05/28/15 17:29	MAM	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:48	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 09:33	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Client Sample ID: B-1 0'-7'

Lab Sample ID: 400-105951-2
Date Collected: 05/20/15 13:58
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 71.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 19:50	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		10	259618	06/04/15 00:16	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 14:03	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 13:09	MAM	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:51	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 09:35	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Client Sample ID: TW-1

Lab Sample ID: 400-105951-3
Date Collected: 05/21/15 10:22
Matrix: Water
Date Received: 05/21/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259157	05/30/15 18:00	EAS	TAL PEN
Total/NA	Prep	3520C			258628	05/27/15 11:27	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 21:53	AJR	TAL PEN
Total/NA	Prep	3520C			258405	05/26/15 14:10	KH1	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 18:21	MAM	TAL PEN
Total Recoverable	Prep	3005A			258303	05/23/15 10:35	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258567	05/26/15 16:02	SLM	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: ALDOT Former Bender

TestAmerica Job ID: 400-105951-1

Client Sample ID: TW-1

Date Collected: 05/21/15 10:22
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105951-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			258506	05/26/15 15:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258898	05/28/15 13:26	JAP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRON

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 1
Company: Thompson Engineering Inc				Job #:

Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT	
City: Mobile	TAT Requested (days): Standard TAT	
State, Zip: AL, 36606		
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required	
Email: mmontgomery@thompsonengineering.com	WO #:	
Project Name: Thompson Engineering	Project #: 40003023	
Site: ALDOT- Former Bender	SSOW#:	

Analysis Requested

Preservation Codes:
A - HCL; B - NaOH; C - Zn Acetate; D - Nitric Acid; E - NaHSO4; F - MeOH; G - Amchlor; H - Ascorbic Acid; I - Ice; J - DI Water; K - EDTA; L - EDA; M - Hexane; N - None; O - AsNaO2; P - Na2O4S; Q - Na2SO3; R - Na2S2SO3; S - H2SO4; T - TSP Dodecahydrate; U - Acetone; V - MCAA; W - ph 4-5; Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List, PCBs	6010B, 7471A, 8260B	8260B - VOC tol list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
SB-1 0'-4'	5/20/15	1348	C	Solid	N	N	1	1					2	
B-1 0'-7'	5/20/15	1358	C	Solid	N	N	1	1					2	
TW-1	5/21/15	1022	G	~~Solid~~ Water	N	N	X	3	2	1	1		7	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Melissa M. Montgomery	5/20/15 1500	Thompson Eng		5/20/15 1500	Thompson
2		5/21/15 1540	Thompson		5/21-15 1540	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 400-105951

Cooler Temperature(s) °C and Other Remarks: 4.1°C - 4.6°C SS92

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6/9/2015

BUFFALO PROPERTIES

1.1 Project Background

Buffalo properties include an undeveloped property located at 309 Royal Street and a second property located east of the Madison and Old Water Street intersection in Mobile, Alabama (Figures 1 and 2, Appendix A). The eastern property is currently used as a tug, tow, and barge fleet operation while the western property is currently an undeveloped gravel paved fenced lot. The northern portions of both properties are located within the current proposed I-10 Mobile River bridge project limits. Surface elevations at the project sites are approximately 0 to 8 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at these sites were performed on May 20, 2015. Three borings (B-1/TW-1, B-2/TW-2, and B-3/TW-3) were advanced on the western property and one boring (B-4/TW-4) was advanced on the eastern property via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 4 to 8 feet below ground surface (bgs) by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from each boring from the ground surface to the top of the water table at approximately 4 to 6 feet bgs. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8082A), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, the borings were advanced an additional two to four feet into the water table and temporary 1-inch diameter piezometers (TW-1 through TW-4) were installed with five feet of 1-inch diameter schedule 40 PVC with 0.010 inch slotted screen. Following temporary well installation, groundwater samples were collected with the

use of a peristaltic pump after first developing and purging the wells. During well development and purging, pH, temperature, specific conductivity, dissolved oxygen, and turbidity were collected after each well volume and measurements were recorded in a bound field log book. Each well was purged until the field parameters stabilized. The final well volume field measurements are included in Appendix B.

Groundwater samples were collected in appropriate laboratory supplied containers. After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the COC and the containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Groundwater samples were submitted to the laboratory to be analyzed for the following chemical analyses: VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), PCBs (EPA Method 8082A) and metals (EPA Methods 6010B/7470A).

Upon completion of groundwater sampling procedures, the temporary wells were removed from the subsurface and all soil boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of clays and sands. A 3 foot buried asphalt layer was present in borings B-1/TW-1 and B-2/TW-2. Soil boring logs and temporary well construction details are presented in Appendix C.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, PCBs, and metals for soil and groundwater is included in Appendix D (Log No.: 400-105881-1). The soil analytical results indicated non-detectable concentrations of SVOCs and PCBs in all soil samples collected. Acetone was reported in soil borings B-1 and B-2 but at concentrations below the ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). Aluminum was reported in boring B-3 at a concentration above the ADEM PSV and EPA RSL for residential soil. Aluminum was also reported in boring B-1, B-2, and B-4 but at levels below the PSVs and RSLs. Arsenic was reported above the residential and commercial PSV and above the residential RSL in boring B-3. Arsenic was reported above the residential PSV and RSL in boring B-4. Chromium, copper, lead, mercury, nickel, and zinc were reported in all four borings but at levels below their respective EPA RSLs and/or ADEM PSVs. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

The groundwater analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBs in all four groundwater samples collected. Chromium was reported in temporary well TW-1 but at a concentration below the ADEM PSV and the EPA Maximum Contaminant Level (MCL). Lead was reported above the PSV and MCL in temporary wells TW-1 and TW-4. Lead was also reported in temporary wells TW-2 and TW-3 but at levels below the PSV and MCL. The groundwater analytical results compared to the ADEM PSVs and EPA RSLs or MCLs (if available) are provided in Table 2.

1.4 Conclusions

- Detectable concentrations of acetone were reported in two soil samples but at levels below ADEM and EPA regulatory screening values. Detectable concentrations of chromium, copper, lead, mercury, nickel, and zinc were reported in all four borings but all were below their respective EPA and/or ADEM regulatory screening values.

- Detectable concentrations of aluminum were reported in all four soil samples collected. The aluminum concentration in boring B-3 at 9,900 milligrams per kilograms (mg/kg) exceeded the EPA residential RSL of 7,700 mg/kg and the ADEM residential PSV of 7,600 mg/kg but was below the EPA and ADEM industrial/commercial screening values. The United States Geological Survey (USGS) has reported an average concentration of aluminum for the conterminous United States as 72,000 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States; however, for Mobile County, aluminum values are determined on a percent by weight basis.

- Arsenic was reported above the residential and commercial ADEM PSVs and the residential EPA RSL in the soil sample collected from boring B-3 at a concentration of 2.9 mg/kg. Arsenic was reported above the residential ADEM PSV and EPA RSL in boring B-4 at a concentration of 1.2 mg/kg; however, the reported concentration was below the both the EPA and ADEM regulatory screening values for industrial/commercial soils. The USGS has reported an average concentration of arsenic for the conterminous United States as 7.2 mg/kg. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Groundwater was encountered during the advancement of the soil borings at a depth of approximately 4 to 6 feet below ground surface. Detectable concentrations of lead were reported in all four groundwater samples collected. Lead was reported above the EPA and ADEM regulatory screening value of 0.015 milligrams per liter (mg/L) in temporary wells TW-1 and TW-4.

1.5 Recommendations

Based on review of the analytical results of the soil and groundwater samples collected on May 20, 2015, some metals specifically arsenic in soil and lead in groundwater have detectable concentrations above their respective EPA and ADEM industrial/commercial regulatory screening values. The detected arsenic values in soils are within the range historically reported in Mobile County, Alabama. The groundwater results suggest that elevated turbidity, i.e., fines and sediment inherent to the sample, contribute to a portion of the data results and not entirely the dissolved fraction of inorganics in groundwater. Nevertheless if groundwater is encountered during subsurface work, it should not be used for potable purposes.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
Buffalo Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID			
							B-1 3'-5'	B-2 3.5'-5'	B-3 0'-4'	B-4 0'-6'
Volatile Organics GC/MS										
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0058	<0.006	<0.0054	<0.0058
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0058	<0.006	<0.0054	<0.0058
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0058	<0.006	<0.0054	<0.0058
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0058	<0.006	<0.0054	<0.0058
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0058	<0.006	<0.0054	<0.0058
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0058	<0.006	<0.0054	<0.0058
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0058	<0.006	<0.0054	<0.0058
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0058	<0.006	<0.0054	<0.0058
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0058	<0.006	<0.0054	<0.0058
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0058	<0.006	<0.0054	<0.0058
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.029	<0.030	<0.027	<0.029
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	0.06	0.083	<0.027	0.062
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0058	<0.006	<0.0054	<0.0058
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0058	<0.006	<0.0054	<0.0058
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0058	<0.006	<0.0054	<0.0058
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0058	<0.006	<0.0054	<0.0058
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0058	<0.006	<0.0054	<0.0058
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0058	<0.006	<0.0054	<0.0058
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0058	<0.006	<0.0054	<0.0058
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0058	<0.006	<0.0054	<0.0058
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0058	<0.006	<0.0054	<0.0058
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0058	<0.006	<0.0054	<0.0058
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0058	<0.006	<0.0054	<0.0058
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0058	<0.006	<0.0054	<0.0058
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0058	<0.006	<0.0054	<0.0058
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0058	<0.006	<0.0054	<0.0058
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0058	<0.006	<0.0054	<0.0058
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.029	<0.030	<0.027	<0.029
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.029	<0.030	<0.027	<0.029
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.017	<0.018	<0.016	<0.017
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0058	<0.006	<0.0054	<0.0058
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0058	<0.006	<0.0054	<0.0058
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0058	<0.006	<0.0054	<0.0058
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0058	<0.006	<0.0054	<0.0058
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0058	<0.006	<0.0054	<0.0058
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0058	<0.006	<0.0054	<0.0058
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0058	<0.006	<0.0054	<0.0058
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0058	<0.006	<0.0054	<0.0058
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0058	<0.006	<0.0054	<0.0058

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
Buffalo Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID			
							B-1 3'-5'	B-2 3.5'-5'	B-3 0'-4'	B-4 0'-6'
Semivolatile Organics										
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.410	<0.390	<0.370	<0.420
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.410	<0.390	<0.370	<0.420
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.410	<0.390	<0.370	<0.420
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.410	<0.390	<0.370	<0.420
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.410	<0.390	<0.370	<0.420
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.410	<0.390	<0.370	<0.420
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.410	<0.390	<0.370	<0.420
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.410	<0.390	<0.370	<0.420
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.410	<0.390	<0.370	<0.420
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.410	<0.390	<0.370	<0.420
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.410	<0.390	<0.370	<0.420
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.410	<0.390	<0.370	<0.420
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.410	<0.390	<0.370	<0.420
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.410	<0.390	<0.370	<0.420
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.410	<0.390	<0.370	<0.420
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.410	<0.390	<0.370	<0.420
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.410	<0.390	<0.370	<0.420
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.410	<0.390	<0.370	<0.420
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.2	<1.2	<1.1	<1.2
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.410	<0.390	<0.370	<0.420
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.410	<0.390	<0.370	<0.420
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.410	<0.390	<0.370	<0.420
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.410	<0.390	<0.370	<0.420
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.410	<0.390	<0.370	<0.420
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.410	<0.390	<0.370	<0.420
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.410	<0.390	<0.370	<0.420
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.410	<0.390	<0.370	<0.420
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.820	<0.780	<0.740	<0.830
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.410	<0.390	<0.370	<0.420
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.410	<0.390	<0.370	<0.420
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.410	<0.390	<0.370	<0.420
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.410	<0.390	<0.370	<0.420
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.410	<0.390	<0.370	<0.420
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.410	<0.390	<0.370	<0.420
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.410	<0.390	<0.370	<0.420
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.410	<0.390	<0.370	<0.420
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.410	<0.390	<0.370	<0.420
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.410	<0.390	<0.370	<0.420
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.410	<0.390	<0.370	<0.420
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.410	<0.390	<0.370	<0.420
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.410	<0.390	<0.370	<0.420
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.410	<0.390	<0.370	<0.420
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.410	<0.390	<0.370	<0.420
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.410	<0.390	<0.370	<0.420
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.410	<0.390	<0.370	<0.420
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.820	<0.780	<0.740	<0.830
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.410	<0.390	<0370	<0.420
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.410	<0.390	<0.370	<0.420
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.410	<0.390	<0.370	<0.420
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.820	<0.780	<0.740	<0.420
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.410	<0.390	<0.370	<0.420
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.410	<0.390	<0.370	<0.420
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<0.410	<0.390	<0.370	<0.420
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<1.2	<1.2	<1.1	<1.2
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.410	<0.390	<0.370	<0.420
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.410	<0.390	<0.370	<0.420
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.410	<0.390	<0.370	<0.420
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.410	<0.390	<0.370	<0.420
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.410	<0.390	<0.370	<0.420
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.410	<0.390	<0.370	<0.420
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.410	<0.390	<0.370	<0.420
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.410	<0.390	<0.370	<0.420
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.410*	<0.390*	<0.370*	<0.420*
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.410*	<0.390*	<0.370*	<0.420*
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.410*	<0.390*	<0.370*	<0.420*

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

* = LCS or LCSD is outside acceptance limits.

Table 1c
Soil Analytical Results
PCB Arochlors
Buffalo Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[(1)]	EPA Industrial[(2)]	ADEM Residential[(3)]	ADEM Commercial[(4)]	Sample Location ID			
							B-1 3'-5'	B-2 3.5'-5'	B-3 0'-4'	B-4 0'-6'
PCB Arochlors										
PCB-1016	12674-11-2	mg/kg	0.41	5.1	0.39	21	<0.011	<0.010	<0.0096	<0.011
PCB-1221	11104-28-2	mg/kg	0.20	0.83	0.22	0.74	<0.011	<0.010	<0.0096	<0.011
PCB-1232	11141-16-5	mg/kg	0.17	0.72	0.22	0.74	<0.011	<0.010	<0.0096	<0.011
PCB-1242	53469-21-9	mg/kg	0.23	0.95	0.22	0.74	<0.011	<0.010	<0.0096	<0.011
PCB-1248	12672-29-6	mg/kg	0.23	0.95	0.22	0.74	<0.011	<0.010	<0.0096	<0.011
PCB-1254	11097-69-1	mg/kg	0.12	0.97	0.22	0.74	<0.011	<0.010	<0.0096	<0.011
PCB-1260	11096-82-5	mg/kg	0.24	0.99	0.22	0.74	<0.011	<0.010	<0.0096	<0.011

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil
(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil
(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.
mg/kg indicates milligrams per kilogram.

Table 1d
Soil Analytical Results
Metals
Buffalo Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID			
							B-1 3'-5'	B-2 3.5'-5'	B-3 0'-4'	B-4 0'-6'
Metals										
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	6,200	2,200	**9,900**	4,100
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<6.1	<5.6	<5.5	<6.3
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	<0.61	<0.56	**2.9**	**1.2**
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.37	<0.34	<0.33	<0.38
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.61	<0.56	<0.55	<0.63
Chromium	7440-47-3	mg/kg	None	None	30	64	5.4	2.6	12	18
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	7.5	7.9	4.2	44
Lead	7439-92-1	mg/kg	400	800	400	800	26	45	7.7	140
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	0.16	0.077	0.028	0.14
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	2.1	1.3	1.6	12
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.2	<1.1	<1.1	<1.3
Silver	7440-22-4	mg/kg	39	580	39	510	<0.61	<0.56	<0.55	<0.63
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.2	<1.1	<1.1	<1.3
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	150	13	12	36

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix CDfor complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Bold and shaded values indicates concentration exceeds screening level.

Table 2a
Groundwater Analytical Results
Volatile Organic Compounds
Buffalo Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID			
					TW-1	TW-2	TW-3	TW-4
Volatile Organics GC/MS								
1,1,1-Trichloroethane	71-55-6	ug/L	200[3]	200	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.076	0.055	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	ug/L	5[3]	5	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	75-34-3	ug/L	2.8	81	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	ug/L	7[3]	7	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	ug/L	None	18	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<1.0	<1.0	<1.0	<1.0
2-Hexanone	591-78-6	ug/L	3.8[3]	None	<25	<25	<25	<25
Acetone	67-64-1	ug/L	1400	550	<25	<25	<25	<25
Benzene	71-43-2	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	ug/L	80[3]	80	<5.0	<5.0	<5.0	<5.0
Bromomethane	74-83-9	ug/L	0.75	0.87	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	ug/L	81	100	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	56-23-5	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	ug/L	80[3]	None	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	ug/L	2100	4.6	<1.0	<1.0	<1.0	<1.0
Chloroform	67-66-3	ug/L	80[3]	80	<1.0	<1.0	<1.0	<1.0
Chloromethane	74-87-3	ug/L	19	1.6	<1.0	<1.0	<1.0	<1.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70[3]	70	<1.0	<1.0	<1.0	<1.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0	<5.0	<5.0	<5.0
Dichlorobromomethane	75-27-4	ug/L	80[3]	None	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	ug/L	700[3]	700	<1.0	<1.0	<1.0	<1.0
m-Xylene & p-Xylene	1330-20-7	ug/L	10000[3]	10000	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	78-93-3	ug/L	560	700	<25	<25	<25	<25
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	630	200	<25	<25	<25	<25
Methylene chloride	75-09-2	ug/L	5.0[3]	5	<5.0	<5.0	<5.0	<5.0
o-Xylene	95-47-6	ug/L	19	19	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	ug/L	5.0[3]	5	<1.0	<1.0	<1.0	<1.0
Toluene	108-88-3	ug/L	100[3]	1000	<1.0	<1.0	<1.0	<1.0
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0	<5.0	<5.0	<5.0
Trichloroethene (TCE)	79-01-6	ug/L	5.0[3]	5	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	ug/L	2.0[3]	2	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	1330-20-7	ug/L	10000[3]	10000	<1.0	<1.0	<1.0	<1.0

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.

Table 2b
Groundwater Analytical Results
Semi-Volatile Organic Compounds
Buffalo Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID			
					TW-1	TW-2	TW-3	TW-4
Semivolatile Organics								
Acenaphthene	83-32-9	ug/L	53	37	<11	<11	<11	<11
Acenaphthylene	208-96-8	ug/L	None	93.9	<11	<11	<11	<11
Anthracene	120-12-7	ug/L	180	180	<11	<11	<11	<11
Benzidine	92-87-5	ug/L	0.0001	0.00029	<28*	<27*	<28*	<27*
Benzo(a)anthracene	56-55-3	ug/L	0.012	0.092	<11	<11	<11	<11
Benzo(a)pyrene	50-32-8	ug/L	0.2[3]	0.2	<11	<11	<11	<11
Benzo(b)fluoranthene	205-99-2	ug/L	0.034	0.092	<11	<11	<11	<11
Benzo(g,h,i)perylene	191-24-2	ug/L	None	46.9	<11	<11	<11	<11
Benzo(k)fluoranthene	207-08-9	ug/L	0.34	0.92	<11	<11	<11	<11
bis(2-chloroethoxy)methane	111-91-1	ug/L	5.9	46	<11	<11	<11	<11
bis(2-chloroethyl)ether	111-44-4	ug/L	0.014	None	<11	<11	<11	<11
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0[3]	6.0	<11	<11	<11	<11
4-Bromophenyl phenyl ether	101-55-3	ug/L	None	None	<11	<11	<11	<11
Butyl benzyl phthalate	85-68-7	ug/L	16	730	<11	<11	<11	<11
Carbazole	86-74-8	ug/L	None	3.4	<11	<11	<11	<11
4-Chloroaniline	106-47-8	ug/L	0.37	15	<11	<11	<11	<11
4-Chloro-3-methylphenol	59-50-7	ug/L	140	None	<11	<11	<11	<11
2-Chlorophenol	95-57-8	ug/L	9.1	3	<11	<11	<11	<11
4-Chlorophenyl phenyl ether	7005-72-3	ug/L	None	None	<11	<11	<11	<11
Chrysene	218-01-9	ug/L	3.4	9.2	<11	<11	<11	<11
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0034	0.0092	<11	<11	<11	<11
Dibenzofuran	132-64-9	ug/L	0.79	1.2	<11	<11	<11	<11
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.13	0.15	<11	<11	<11	<11
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<11	<11	<11	<11
1,3-Dichlorobenzene	541-73-1	ug/L	None	None	<11	<11	<11	<11
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<11	<11	<11	<11
2,4-Dichlorophenol	120-83-2	ug/L	4.6	11	<11	<11	<11	<11
Diethyl phthalate	84-66-2	ug/L	1500	2900	<11	<11	<11	<11
2,4-Dimethylphenol	105-67-9	ug/L	36	73	<11	<11	<11	<11
Dimthyl phthalate	131-11-3	ug/L	None	36000	<11	<11	<11	<11
Di-n-butyl phthalate	84-74-2	ug/L	90	360	<11	<11	<11	<11
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	0.15	None	<11	<11	<11	<11
2,4-Dinitrophenol	51-28-5	ug/L	3.9	7.3	<33	<32	<33	<32
2,4-Dinitrotoluene	121-14-2	ug/L	0.24	7.3	<11	<11	<11	<11
2,6-Dinitrotoluene	606-20-2	ug/L	0.049	3.6	<11	<11	<11	<11
Di-n-octyl phthalate	117-84-0	ug/L	20	150	<11	<11	<11	<11
Dinoseb	88-85-7	ug/L	7.0[3]	None	<11	<11	<11	<11
Fluoranthene	206-44-0	ug/L	80	150	<11	<11	<11	<11
Fluorene	86-73-7	ug/L	29	24	<11	<11	<11	<11
Hexachlorobenzene	118-74-1	ug/L	1.0[3]	1	<11	<11	<11	<11
Hexachlorobutadiene	87-68-3	ug/L	0.14	0.86	<11	<11	<11	<11
Hexachlorocyclopentadiene	77-47-4	ug/L	50[3]	50	<22	<21	<22	<21
Hexachloroethane	67-72-1	ug/L	0.33	4.8	<11	<11	<11	<11
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.034	0.092	<11	<11	<11	<11
Isophorone	78-59-1	ug/L	78	71	<11	<11	<11	<11
1-Methylnaphthalene	90-12-0	ug/L	1.1[3]	None	<11	<11	<11	<11
2-Methylnaphthalene	91-57-6	ug/L	3.6	6.26	<11	<11	<11	<11
2-Methylphenol	95-48-7	ug/L	93	180	<11	<11	<11	<11
3 & 4 Methylphenol	106-44-5	ug/L	190	18	<22	<21	<22	<21
Naphthalene	91-20-3	ug/L	0.17	0.62	<11	<11	<11	<11
2-Nitroaniline	88-74-4	ug/L	19	11	<11	<11	<11	<11
4-Nitroaniline	100-01-6	ug/L	3.8	None	<11	<11	<11	<11
Nitrobenzene	98-95-3	ug/L	0.14	0.34	<11	<11	<11	<11
2-Nitrophenol	88-75-5	ug/L	None	None	<11	<11	<11	<11
4-Nitrophenol	100-02-7	ug/L	None	12.5	<11*	<11*	<11*	<11*
N-Nitrosodimethylamine	62-75-9	ug/L	0.00011	0.0013	<11	<11	<11	<11
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.011	0.0096	<11	<11	<11	<11
N-Nitrosodiphenylamine	86-30-6	ug/L	12	14	<11	<11	<11	<11
Pentachlorophenol	87-86-5	ug/L	1.0[3]	1.0	<22	<22	<22	<21
Phenanthrene	85-01-8	ug/L	None	46.9	<11	<11	<11	<11
Phenol	108-95-2	ug/L	580	1100	<11	<11	<11	<11
Pyrene	129-00-0	ug/L	12	18	<11	<11	<11	<11
1,2,4-Trichlorobenzene	120-82-1	ug/L	7.0[3]	70.0	<11	<11	<11	<11
2,4,5-Trichlorophenol	95-95-4	ug/L	120	360	<11	<11	<11	<11
2,4,6-Trichlorophenol	88-06-2	ug/L	1.2	0.36	<11	<11	<11	<11

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.
* = RPD of the LCS and LCSD exceeds the control limits.

Table 2c
Groundwater Analytical Results
PCB Arochlors
Buffalo Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID			
					TW-1	TW-2	TW-3	TW-4
PCB Arochlors								
PCB-1016	12674-11-2	ug/L	0.14	0.96	<0.53	<0.53	<0.53	<0.53
PCB-1221	11104-28-2	ug/L	0.0047	0.034	<0.53	<0.53	<0.53	<0.53
PCB-1232	1141-16-5	ug/L	0.0047	0.034	<0.53	<0.53	<0.53	<0.53
PCB-1242	53469-21-9	ug/L	0.0078	0.034	<0.53	<0.53	<0.53	<0.53
PCB-1248	12672-29-6	ug/L	0.0078	0.034	<0.53	<0.53	<0.53	<0.53
PCB-1254	11097-69-1	ug/L	0.0078	0.034	<0.53	<0.53	<0.53	<0.53
PCB-1260	11096-82-5	ug/L	0.0078	0.034	<0.53	<0.53	<0.53	<0.53

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
ug/L indicates micrograms per liter.

Table 2d
Groundwater Analytical Results
Metals
Buffalo Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID			
					TW-1	TW-2	TW-3	TW-4
Metals								
Antimony	7440-36-0	mg/L	0.006[3]	0.006	<0.050	<0.050	<0.050	<0.050
Arsenic	7440-38-2	mg/L	0.01[3]	0.01	<0.0050	0.0061	<0.0050	<0.0050
Beryllium	7440-41-7	mg/L	0.004[3]	0.004	<0.0030	<0.0030	<0.0030	<0.0030
Cadmium	7440-43-9	mg/L	0.005[3]	0.005	<0.0050	<0.0050	<0.0050	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.1[3]	0.10	0.016	<0.010	<0.010	<0.010
Copper	7440-50-8	mg/L	1.3[3]	1.30	<0.010	<0.010	<0.010	<0.010
Lead	7439-92-1	mg/L	0.015[3]	0.015	**0.020**	0.0062	0.0073	**0.029**
Mercury	7487-94-7	mg/L	0.002[3]	0.002	<0.20	<0.20	<0.20	<0.20
Nickel	7440-02-0	mg/L	0.039	0.1	<0.0050	<0.0050	<0.0050	<0.0050
Selenium	7782-49-2	mg/L	0.005[3]	0.005	<0.010	<0.010	<0.010	<0.010
Silver	7440-22-4	mg/L	0.0094	0.0018	<0.0050	<0.0050	<0.0050	<0.0050
Thallium	7440-28-0	mg/L	0.002[3]	0.002	<0.010	<0.010	<0.010	<0.010
Zinc	7440-66-6	mg/L	0.6	1.1	<0.020	<0.020	<0.020	<0.020

The data presented is a summary of the results of samples collected on May 20, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.

(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.

(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.

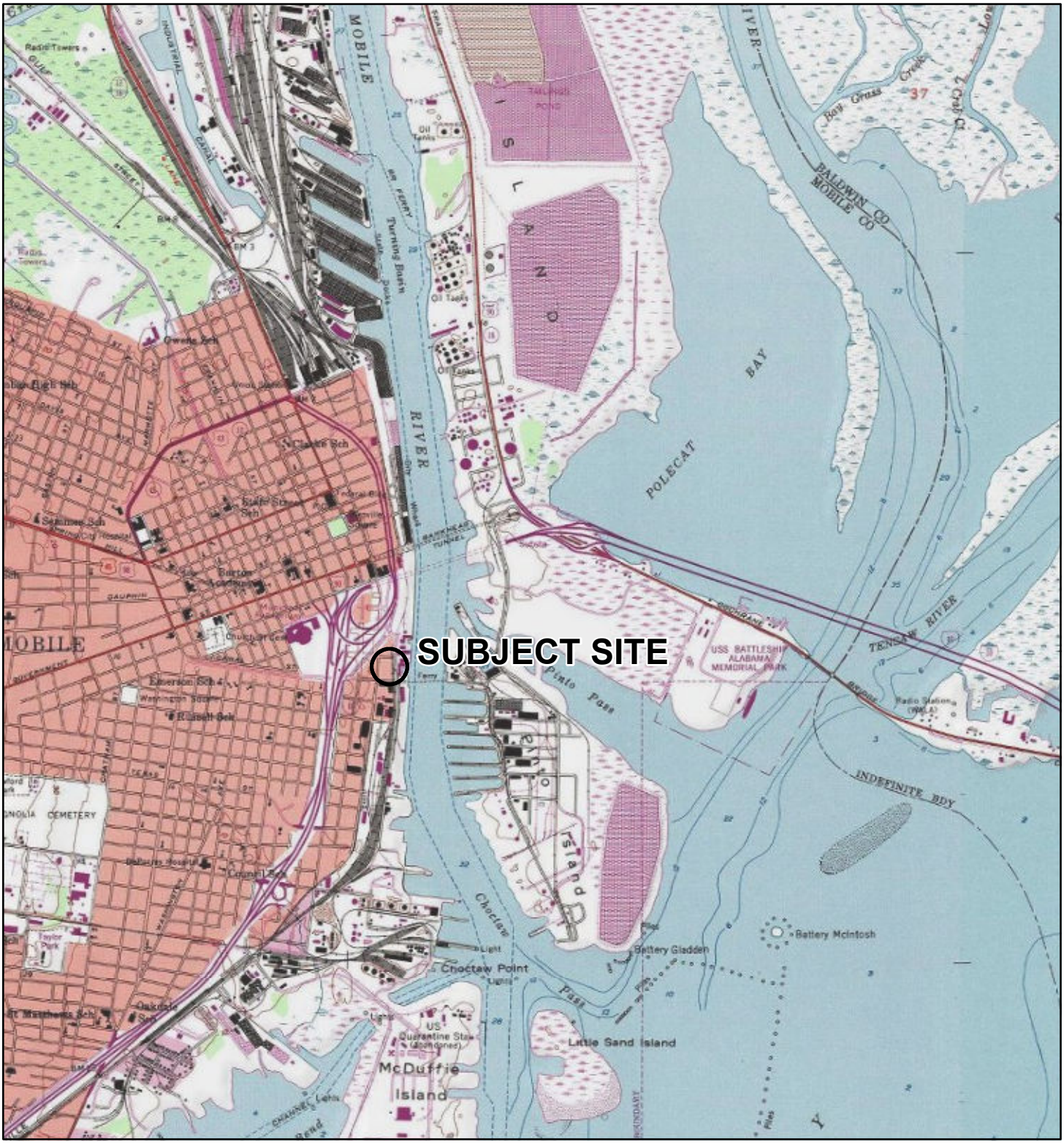
mg/L indicates milligrams per liter.

Bold and shaded values indicates concentration exceeds screening level.

APPENDIX A

BUFFALO PROPERTIES
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

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ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 1
SITE VICINITY MAP
BUFFALO PROPERTIES

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

Parcel Line*

Project Limit

1:2,400

0 200 400 Feet

1 inch = 200 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution

*Mobile Revenue Commission Parcel Data - May 2016- NOT A SURVEY

- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 2
AERIAL PHOTOGRAPH
BUFFALO PROPERTIES

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-1101\15-1101-0043 ALDOT - Mobile River Bridge - SO\team\GIS\MXD\BUFFALO_FIG3.mxd



LEGEND

Boring /Temporary Well (B/TW)

Parcel Line*

Project Limit

1:2,400

0 200 400 Feet

1 inch = 200 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution

*Mobile Revenue Commission Parcel Data - May 2016- NOT A SURVEY

- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
BUFFALO PROPERTIES

PROJECT NO.: 15-1101-0043

DATE: JANUARY 2017

P:\2015\15-1101-0043 ALDOT - Mobile River Bridge - SO\team\GIS\MXD\BUFFALO_FIG3.mxd

APPENDIX B

BUFFALO PROPERTIES
GROUNDWATER FIELD PARAMETER DATA

PROJECT NO.: 15-1101-0043

Groundwater Field Parameter Data

Buffalo Properties
Preliminary Investigation
15-1101-0043

Well I.D.	Total Depth (feet)	Depth to Water Level (feet)	Well Volume (gallon)	Volume Evacuated (gallon)	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	8.0	4.22	0.16	1.12	6.0	21.3	0.755	0.22	22.5
TW-2	8.2	4.35	0.16	1.12	6.3	20.9	0.943	0.10	35.7
TW-3	8.3	2.84	0.23	2.07	6.2	24.6	0.491	1.35	42.8
TW-4	10.6	2.43	0.33	2.31	6.2	23	0.338	0.09	12.2

Notes:
1. Measurements presented are the final well volume.
2. Total depth and depth to water level are measured from top of well casing.
3. S.U. - Standard Units
4. oC - Degrees Celcius
5. uS - micro Siemens per Centimeter
6. mg/L-milligrams per liter
7. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

APPENDIX C

BUFFALO PROPERTIES
SOIL BORING LOGS AND
TEMPORARY WELL CONSTRUCTION DETAILS

PROJECT NO.: 15-1101-0043

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AASHTO R18

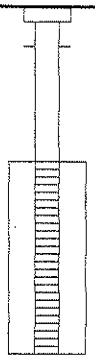
TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 20, 2015 **GR. WATER DEPTH:** 5 ft. bgs

BORING NO.: B-1/TW-1 **LOCATION:** Buffalo Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		GRAVEL ASPHALT	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Black SANDY CLAY			
5		Dark gray to gray fine SAND saturated			
		B.T. @ 8 ft bgs			
10					
15					
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 20, 2015 **GR. WATER DEPTH:** 5 ft. bgs

BORING NO.: B-2/TW-2 **LOCATION:** Buffalo Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		GRAVEL ASPHALT	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Black SANDY CLAY Dark gray to gray fine SAND			
5		saturated			
		B.T. @ 8 ft bgs			
10					
15					
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 20, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: B-3/TW-3 **LOCATION:** Buffalo Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		GRAVEL	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake): Flush-threaded joints with bottom cap.		
		ASPHALT			
5		Red fine SAND (FILL), saturated			
		B.T. @ 8 ft bgs			
10					
15					
20					
25					
30					
35					

thompson ENGINEERING

AASHTO R18

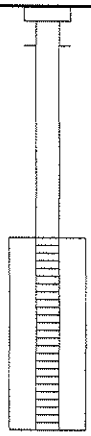
TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 20, 2015 **GR. WATER DEPTH:** 6 ft. bgs

BORING NO.: B-4/TW-4 **LOCATION:** Buffalo Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		GRAVEL	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Black fine SAND			
5		saturated			
10		B.T. @ 10 ft bgs			
15					
20					
25					
30					
35					

APPENDIX D

BUFFALO PROPERTIES
LABORATORY ANALYTICAL DATA
WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105881-1
Client Project/Site: Buffalo Properties

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
6/10/2015 5:34:04 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-105881-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105881-1

Comments
No additional comments.

Receipt
The samples were received on 5/20/2015 3:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.8º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259297 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene and Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 258628 recovered outside control limits for the flagged analytes.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259419 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-258556 and analytical batch 400-259419: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and 1,2-Dichlorobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: B-1 3'-5'
Date Collected: 05/20/15 08:34
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-1
Matrix: Solid
Percent Solids: 80.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,1,2,2-Tetrachloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,1,2-Trichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,1-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,1-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,2-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,2-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,2-Dichloropropane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,3-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
1,4-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
2-Hexanone	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Acetone	**60**		29		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Benzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Bromoform	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Bromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Carbon disulfide	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Carbon tetrachloride	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Chlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Chlorodibromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Chloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Chloroform	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Chloromethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
cis-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
cis-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Dichlorobromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Ethylbenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
m-Xylene & p-Xylene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
2-Butanone (MEK)	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Methylene Chloride	<17		17		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
o-Xylene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Styrene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Tetrachloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Toluene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
trans-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
trans-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Trichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Vinyl chloride	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1
Xylenes, Total	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 20:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 122*	*06/02/15 11:57*	*06/02/15 20:15*	*1*
Dibromofluoromethane	*98*		*79 - 123*	*06/02/15 11:57*	*06/02/15 20:15*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/02/15 11:57*	*06/02/15 20:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
1,4-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
1-Methylnaphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1

Client: Thompson Engineering Inc
Project/Site: Buffalo Properties

TestAmerica Job ID: 400-105881-1

Client Sample ID: B-1 3'-5'
Date Collected: 05/20/15 08:34
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-1
Matrix: Solid
Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2,4-Dichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2,4-Dimethylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2-Chlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2-Methylnaphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2-Methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2-Nitroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2-Nitrophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
3 & 4 Methylphenol	<820		820		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
3,3'-Dichlorobenzidine	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
4,6-Dinitro-2-methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
4-Chloroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
4-Nitroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
4-Nitrophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Acenaphthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Acenaphthylene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Benzo[a]anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Benzo[a]pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Benzo[b]fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Benzo[g,h,i]perylene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Bis(2-ethylhexyl) phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Butyl benzyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Carbazole	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Chrysene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Di-n-butyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Di-n-octyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Dibenzofuran	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Diethyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Dimethyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Fluorene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Hexachlorobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Hexachlorobutadiene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Hexachloroethane	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Indeno[1,2,3-cd]pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Isophorone	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1

Client Sample ID: B-1 3'-5'
Date Collected: 05/20/15 08:34
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-1
Matrix: Solid
Percent Solids: 80.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Naphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Nitrobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Pentachlorophenol	<820		820		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Phenanthrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Phenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
1,2,4-Trichlorobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
1,2-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1
Dinoseb	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*65*		*37 - 120*	*05/27/15 07:29*	*06/02/15 16:09*	*1*
Terphenyl-d14 (Surr)	*83*		*36 - 134*	*05/27/15 07:29*	*06/02/15 16:09*	*1*
2,4,6-Tribromophenol (Surr)	*60*		*32 - 133*	*05/27/15 07:29*	*06/02/15 16:09*	*1*
2-Fluorobiphenyl	*46*		*44 - 120*	*05/27/15 07:29*	*06/02/15 16:09*	*1*
2-Fluorophenol (Surr)	*52*		*25 - 120*	*05/27/15 07:29*	*06/02/15 16:09*	*1*
Nitrobenzene-d5 (Surr)	*51*		*27 - 120*	*05/27/15 07:29*	*06/02/15 16:09*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 09:12	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 09:12	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 09:12	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 09:12	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 09:12	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 09:12	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 09:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*87*		*30 - 150*	*05/22/15 08:08*	*05/27/15 09:12*	*1*
Tetrachloro-m-xylene	*70*		*43 - 142*	*05/22/15 08:08*	*05/27/15 09:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.61		0.61		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Aluminum	**6200**		12		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Arsenic	<0.61		0.61		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Beryllium	<0.37		0.37		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Cadmium	<0.61		0.61		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Chromium	**5.4**		1.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Copper	**7.5**		1.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Nickel	**2.1**		0.61		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Lead	**26**		0.61		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Antimony	<6.1		6.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Selenium	<1.2		1.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1
Thallium	<1.2		1.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1

Client Sample ID: B-1 3'-5'

Lab Sample ID: 400-105881-1
Date Collected: 05/20/15 08:34
Matrix: Solid
Date Received: 05/20/15 15:55
Percent Solids: 80.6

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	150		2.5		mg/Kg	☼	05/27/15 09:35	05/28/15 15:20	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.16		0.019		mg/Kg	☼	05/22/15 09:11	05/26/15 13:01	1

Client Sample ID: TW-1

Lab Sample ID: 400-105881-2
Date Collected: 05/20/15 13:40
Matrix: Water
Date Received: 05/20/15 15:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 18:26	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 18:26	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 18:26	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 18:26	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:26	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:26	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 18:26	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 18:26	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:26	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:26	1
2-Hexanone	<25		25		ug/L			05/30/15 18:26	1
Acetone	<25		25		ug/L			05/30/15 18:26	1
Benzene	<1.0		1.0		ug/L			05/30/15 18:26	1
Bromoform	<5.0		5.0		ug/L			05/30/15 18:26	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 18:26	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 18:26	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 18:26	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 18:26	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 18:26	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 18:26	1
Chloroform	<1.0		1.0		ug/L			05/30/15 18:26	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 18:26	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:26	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 18:26	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 18:26	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 18:26	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 18:26	1
2-Butanone (MEK)	<25		25		ug/L			05/30/15 18:26	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 18:26	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 18:26	1
o-Xylene	<5.0		5.0		ug/L			05/30/15 18:26	1
Styrene	<1.0		1.0		ug/L			05/30/15 18:26	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 18:26	1
Toluene	<1.0		1.0		ug/L			05/30/15 18:26	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:26	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 18:26	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 18:26	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 18:26	1

Client: Thompson Engineering Inc
Project/Site: Buffalo Properties

TestAmerica Job ID: 400-105881-1

Client Sample ID: TW-1
Date Collected: 05/20/15 13:40
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*78 - 118*		*05/30/15 18:26*	*1*
Dibromofluoromethane	*109*		*81 - 121*		*05/30/15 18:26*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*05/30/15 18:26*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
1,4-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
1-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2,4-Dichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2,4-Dimethylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2,4-Dinitrophenol	<33		33		ug/L		05/27/15 11:27	06/01/15 14:06	1
2-Chlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2-Methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2-Nitrophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
3 & 4 Methylphenol	<22		22		ug/L		05/27/15 11:27	06/01/15 14:06	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
4-Bromophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
4-Chloroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
4-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
4-Nitrophenol	<11	*	11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Acenaphthene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Acenaphthylene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Benzidine	<28	*	28		ug/L		05/27/15 11:27	06/01/15 14:06	1
Benzo[a]anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Benzo[a]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Benzo[b]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Benzo[k]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Butyl benzyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Carbazole	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Chrysene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Di-n-butyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Di-n-octyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Dibenzofuran	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1

Client Sample ID: TW-1
Date Collected: 05/20/15 13:40
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Dimethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Fluorene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Hexachlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Hexachlorobutadiene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Hexachlorocyclopentadiene	<22		22		ug/L		05/27/15 11:27	06/01/15 14:06	1
Hexachloroethane	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Isophorone	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
N-Nitrosodimethylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Naphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Nitrobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Pentachlorophenol	<22		22		ug/L		05/27/15 11:27	06/01/15 14:06	1
Phenanthrene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Phenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
1,2,4-Trichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
1,2-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2,4-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
2,6-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1
Dinoseb	<11		11		ug/L		05/27/15 11:27	06/01/15 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*78*		*10 - 120*	*05/27/15 11:27*	*06/01/15 14:06*	*1*
Terphenyl-d14 (Surr)	*96*		*53 - 125*	*05/27/15 11:27*	*06/01/15 14:06*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*15 - 135*	*05/27/15 11:27*	*06/01/15 14:06*	*1*
2-Fluorobiphenyl	*98*		*34 - 120*	*05/27/15 11:27*	*06/01/15 14:06*	*1*
2-Fluorophenol (Surr)	*67*		*10 - 120*	*05/27/15 11:27*	*06/01/15 14:06*	*1*
Nitrobenzene-d5 (Surr)	*98*		*27 - 120*	*05/27/15 11:27*	*06/01/15 14:06*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:52	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:52	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:52	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:52	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:52	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:52	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*27*		*10 - 125*	*05/22/15 08:24*	*05/29/15 17:52*	*1*
Tetrachloro-m-xylene	*71*		*46 - 150*	*05/22/15 08:24*	*05/29/15 17:52*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/22/15 11:05	05/25/15 14:27	1

Client Sample ID: TW-1

Lab Sample ID: 400-105881-2

Date Collected: 05/20/15 13:40

Matrix: Water

Date Received: 05/20/15 15:55

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:27	1
Beryllium	<0.0030		0.0030		mg/L		05/22/15 11:05	05/25/15 14:27	1
Cadmium	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:27	1
Chromium	**0.016**		0.010		mg/L		05/22/15 11:05	05/25/15 14:27	1
Copper	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:27	1
Lead	**0.020**		0.0050		mg/L		05/22/15 11:05	05/25/15 14:27	1
Nickel	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:27	1
Selenium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:27	1
Silver	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:27	1
Thallium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:27	1
Zinc	<0.020		0.020		mg/L		05/22/15 11:05	05/25/15 14:27	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/22/15 09:00	05/26/15 10:21	1

Client Sample ID: B-2 3.5'-5'

Lab Sample ID: 400-105881-3

Date Collected: 05/20/15 08:56

Matrix: Solid

Date Received: 05/20/15 15:55

Percent Solids: 84.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,1,2,2-Tetrachloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,1,2-Trichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
2-Hexanone	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Acetone	**83**		30		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Benzene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Bromoform	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Bromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Chloroethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Chloroform	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Chloromethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
m-Xylene & p-Xylene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
2-Butanone (MEK)	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1

Client Sample ID: B-2 3.5'-5'
Date Collected: 05/20/15 08:56
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-3
Matrix: Solid
Percent Solids: 84.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
o-Xylene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Styrene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Tetrachloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Toluene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Trichloroethene	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Vinyl chloride	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1
Xylenes, Total	<6.0		6.0		ug/Kg	☼	06/02/15 11:57	06/02/15 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 122*	*06/02/15 11:57*	*06/02/15 20:40*	*1*
Dibromofluoromethane	*102*		*79 - 123*	*06/02/15 11:57*	*06/02/15 20:40*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 20:40*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
1,4-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
1-Methylnaphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2,4,5-Trichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2,4,6-Trichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2,4-Dichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2,4-Dimethylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2-Chlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2-Methylnaphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2-Methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2-Nitroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2-Nitrophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
3 & 4 Methylphenol	<780		780		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
3,3'-Dichlorobenzidine	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
4,6-Dinitro-2-methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
4-Bromophenyl phenyl ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
4-Chloro-3-methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
4-Chloroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
4-Chlorophenyl phenyl ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
4-Nitroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
4-Nitrophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Acenaphthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Acenaphthylene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Benzo[a]anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Benzo[a]pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Benzo[b]fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Benzo[g,h,i]perylene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Benzo[k]fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1

Client Sample ID: B-2 3.5'-5'
Date Collected: 05/20/15 08:56
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-3
Matrix: Solid
Percent Solids: 84.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Bis(2-chloroethyl)ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Bis(2-ethylhexyl) phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Butyl benzyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Carbazole	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Chrysene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Di-n-butyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Di-n-octyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Dibenz(a,h)anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Dibenzofuran	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Diethyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Dimethyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Fluorene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Hexachlorobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Hexachlorobutadiene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Hexachlorocyclopentadiene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Hexachloroethane	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Indeno[1,2,3-cd]pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Isophorone	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
N-Nitrosodi-n-propylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
N-Nitrosodimethylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
N-Nitrosodiphenylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Naphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Nitrobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Pentachlorophenol	<780		780		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Phenanthrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Phenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
1,2,4-Trichlorobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
1,2-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2,4-Dinitrotoluene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
2,6-Dinitrotoluene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1
Dinoseb	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*75*		*37 - 120*	*05/27/15 07:29*	*06/02/15 16:47*	*1*
Terphenyl-d14 (Surr)	*99*		*36 - 134*	*05/27/15 07:29*	*06/02/15 16:47*	*1*
2,4,6-Tribromophenol (Surr)	*64*		*32 - 133*	*05/27/15 07:29*	*06/02/15 16:47*	*1*
2-Fluorobiphenyl	*55*		*44 - 120*	*05/27/15 07:29*	*06/02/15 16:47*	*1*
2-Fluorophenol (Surr)	*62*		*25 - 120*	*05/27/15 07:29*	*06/02/15 16:47*	*1*
Nitrobenzene-d5 (Surr)	*58*		*27 - 120*	*05/27/15 07:29*	*06/02/15 16:47*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 09:38	1
PCB-1221	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 09:38	1
PCB-1232	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 09:38	1
PCB-1242	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 09:38	1
PCB-1248	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 09:38	1

Client Sample ID: B-2 3.5'-5'

Lab Sample ID: 400-105881-3
Date Collected: 05/20/15 08:56
Matrix: Solid
Date Received: 05/20/15 15:55
Percent Solids: 84.1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 09:38	1
PCB-1260	<10		10		ug/Kg	☼	05/22/15 08:08	05/27/15 09:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*30 - 150*	*05/22/15 08:08*	*05/27/15 09:38*	*1*
Tetrachloro-m-xylene	*73*		*43 - 142*	*05/22/15 08:08*	*05/27/15 09:38*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.56		0.56		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Aluminum	**2200**		11		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Arsenic	<0.56		0.56		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Beryllium	<0.34		0.34		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Cadmium	<0.56		0.56		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Chromium	**2.6**		1.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Copper	**7.9**		1.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Nickel	**1.3**		0.56		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Lead	**45**		0.56		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Antimony	<5.6		5.6		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Selenium	<1.1		1.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Thallium	<1.1		1.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1
Zinc	**13**		2.3		mg/Kg	☼	05/27/15 09:35	05/28/15 15:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.077**		0.017		mg/Kg	☼	05/22/15 09:11	05/26/15 13:02	1

Client Sample ID: TW-2

Lab Sample ID: 400-105881-4
Date Collected: 05/20/15 14:26
Matrix: Water
Date Received: 05/20/15 15:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 18:52	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 18:52	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 18:52	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 18:52	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:52	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:52	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 18:52	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 18:52	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:52	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 18:52	1
2-Hexanone	<25		25		ug/L			05/30/15 18:52	1
Acetone	<25		25		ug/L			05/30/15 18:52	1
Benzene	<1.0		1.0		ug/L			05/30/15 18:52	1
Bromoform	<5.0		5.0		ug/L			05/30/15 18:52	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 18:52	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 18:52	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 18:52	1

Client Sample ID: TW-2
Date Collected: 05/20/15 14:26
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 18:52	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 18:52	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 18:52	1
Chloroform	<1.0		1.0		ug/L			05/30/15 18:52	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 18:52	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:52	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 18:52	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 18:52	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 18:52	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 18:52	1
2-Butanone (MEK)	<25		25		ug/L			05/30/15 18:52	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 18:52	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 18:52	1
o-Xylene	<5.0		5.0		ug/L			05/30/15 18:52	1
Styrene	<1.0		1.0		ug/L			05/30/15 18:52	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 18:52	1
Toluene	<1.0		1.0		ug/L			05/30/15 18:52	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 18:52	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 18:52	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 18:52	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 18:52	1
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*05/30/15 18:52*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*05/30/15 18:52*	*1*
Toluene-d8 (Surr)	*111*		*80 - 120*		*05/30/15 18:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
1,4-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
1-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2,4-Dichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2,4-Dimethylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2,4-Dinitrophenol	<32		32		ug/L		05/27/15 11:27	06/01/15 14:42	1
2-Chlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2-Methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2-Nitrophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
3 & 4 Methylphenol	<21		21		ug/L		05/27/15 11:27	06/01/15 14:42	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
4-Bromophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
4-Chloroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1

Client Sample ID: TW-2
Date Collected: 05/20/15 14:26
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
4-Nitrophenol	<11	*	11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Acenaphthene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Acenaphthylene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Benzidine	<27	*	27		ug/L		05/27/15 11:27	06/01/15 14:42	1
Benzo[a]anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Benzo[a]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Benzo[b]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Benzo[k]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Butyl benzyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Carbazole	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Chrysene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Di-n-butyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Di-n-octyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Dibenzofuran	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Diethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Dimethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Fluorene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Hexachlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Hexachlorobutadiene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Hexachlorocyclopentadiene	<21		21		ug/L		05/27/15 11:27	06/01/15 14:42	1
Hexachloroethane	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Isophorone	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
N-Nitrosodimethylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Naphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Nitrobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Pentachlorophenol	<21		21		ug/L		05/27/15 11:27	06/01/15 14:42	1
Phenanthrene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Phenol	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
1,2,4-Trichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
1,2-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2,4-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
2,6-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1
Dinoseb	<11		11		ug/L		05/27/15 11:27	06/01/15 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*56*		*10 - 120*	*05/27/15 11:27*	*06/01/15 14:42*	*1*
Terphenyl-d14 (Surr)	*85*		*53 - 125*	*05/27/15 11:27*	*06/01/15 14:42*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*15 - 135*	*05/27/15 11:27*	*06/01/15 14:42*	*1*

Client Sample ID: TW-2

Lab Sample ID: 400-105881-4

Date Collected: 05/20/15 14:26

Matrix: Water

Date Received: 05/20/15 15:55

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*87*		*34 - 120*	*05/27/15 11:27*	*06/01/15 14:42*	*1*
2-Fluorophenol (Surr)	*51*		*10 - 120*	*05/27/15 11:27*	*06/01/15 14:42*	*1*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*	*05/27/15 11:27*	*06/01/15 14:42*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:17	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:17	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:17	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:17	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:17	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:17	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*34*		*10 - 125*	*05/22/15 08:24*	*05/29/15 18:17*	*1*
Tetrachloro-m-xylene	*80*		*46 - 150*	*05/22/15 08:24*	*05/29/15 18:17*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/22/15 11:05	05/25/15 14:30	1
Arsenic	**0.0061**		0.0050		mg/L		05/22/15 11:05	05/25/15 14:30	1
Beryllium	<0.0030		0.0030		mg/L		05/22/15 11:05	05/25/15 14:30	1
Cadmium	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:30	1
Chromium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:30	1
Copper	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:30	1
Lead	**0.0062**		0.0050		mg/L		05/22/15 11:05	05/25/15 14:30	1
Nickel	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:30	1
Selenium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:30	1
Silver	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:30	1
Thallium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:30	1
Zinc	<0.020		0.020		mg/L		05/22/15 11:05	05/25/15 14:30	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/22/15 09:00	05/26/15 10:22	1

Client Sample ID: B-3 0'-4'

Lab Sample ID: 400-105881-5

Date Collected: 05/20/15 09:10

Matrix: Solid

Date Received: 05/20/15 15:55

Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
1,1,2,2-Tetrachloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
1,1,2-Trichloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
1,1-Dichloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
1,1-Dichloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
1,2-Dichlorobenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
1,2-Dichloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1

Client: Thompson Engineering Inc
Project/Site: Buffalo Properties

TestAmerica Job ID: 400-105881-1

Client Sample ID: B-3 0'-4'
Date Collected: 05/20/15 09:10
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-5
Matrix: Solid
Percent Solids: 87.3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
1,3-Dichlorobenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
1,4-Dichlorobenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
2-Hexanone	<27		27		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Acetone	<27		27		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Benzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Bromoform	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Bromomethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Carbon disulfide	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Carbon tetrachloride	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Chlorobenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Chlorodibromomethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Chloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Chloroform	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Chloromethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
cis-1,2-Dichloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
cis-1,3-Dichloropropene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Dichlorobromomethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Ethylbenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
m-Xylene & p-Xylene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
2-Butanone (MEK)	<27		27		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
4-Methyl-2-pentanone (MIBK)	<27		27		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Methylene Chloride	<16		16		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
o-Xylene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Styrene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Tetrachloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Toluene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
trans-1,2-Dichloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
trans-1,3-Dichloropropene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Trichloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Vinyl chloride	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1
Xylenes, Total	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*06/02/15 11:57*	*06/02/15 21:04*	*1*
Dibromofluoromethane	*96*		*79 - 123*	*06/02/15 11:57*	*06/02/15 21:04*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*06/02/15 11:57*	*06/02/15 21:04*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<370	*	370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
1,4-Dichlorobenzene	<370	*	370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2-Chlorophenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1

Client: Thompson Engineering Inc
Project/Site: Buffalo Properties

TestAmerica Job ID: 400-105881-1

Client Sample ID: B-3 0'-4'
Date Collected: 05/20/15 09:10
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-5
Matrix: Solid
Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2-Nitroaniline	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2-Nitrophenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
3 & 4 Methylphenol	<740		740		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
4-Chloroaniline	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
4-Nitroaniline	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
4-Nitrophenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Acenaphthene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Acenaphthylene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Anthracene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Benzidine	<1100		1100		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Carbazole	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Chrysene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Dibenzofuran	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Diethyl phthalate	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Dimethyl phthalate	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Fluoranthene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Fluorene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Hexachlorobenzene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Hexachloroethane	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Isophorone	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Naphthalene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Nitrobenzene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Pentachlorophenol	<740		740		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Phenanthrene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Phenol	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1

Client Sample ID: B-3 0'-4'
Date Collected: 05/20/15 09:10
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-5
Matrix: Solid
Percent Solids: 87.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
1,2-Dichlorobenzene	<370	*	370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1
Dinoseb	<370		370		ug/Kg	☼	05/27/15 07:29	06/02/15 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*58*		*37 - 120*	*05/27/15 07:29*	*06/02/15 17:26*	*1*
Terphenyl-d14 (Surr)	*87*		*36 - 134*	*05/27/15 07:29*	*06/02/15 17:26*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*32 - 133*	*05/27/15 07:29*	*06/02/15 17:26*	*1*
2-Fluorobiphenyl	*44*		*44 - 120*	*05/27/15 07:29*	*06/02/15 17:26*	*1*
2-Fluorophenol (Surr)	*43*		*25 - 120*	*05/27/15 07:29*	*06/02/15 17:26*	*1*
Nitrobenzene-d5 (Surr)	*44*		*27 - 120*	*05/27/15 07:29*	*06/02/15 17:26*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 10:05	1
PCB-1221	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 10:05	1
PCB-1232	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 10:05	1
PCB-1242	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 10:05	1
PCB-1248	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 10:05	1
PCB-1254	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 10:05	1
PCB-1260	<9.6		9.6		ug/Kg	☼	05/22/15 08:08	05/27/15 10:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*96*		*30 - 150*	*05/22/15 08:08*	*05/27/15 10:05*	*1*
Tetrachloro-m-xylene	*101*		*43 - 142*	*05/22/15 08:08*	*05/27/15 10:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.55		0.55		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Aluminum	**9900**		11		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Arsenic	**2.9**		0.55		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Beryllium	<0.33		0.33		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Cadmium	<0.55		0.55		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Chromium	**12**		1.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Copper	**4.2**		1.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Nickel	**1.6**		0.55		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Lead	**7.7**		0.55		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Antimony	<5.5		5.5		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Selenium	<1.1		1.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Thallium	<1.1		1.1		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1
Zinc	**12**		2.2		mg/Kg	☼	05/27/15 09:35	05/28/15 15:37	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.017		mg/Kg	☼	05/22/15 09:11	05/26/15 13:03	1

Client: Thompson Engineering Inc
Project/Site: Buffalo Properties

TestAmerica Job ID: 400-105881-1

Client Sample ID: TW-3
Date Collected: 05/20/15 15:10
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 19:18	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 19:18	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 19:18	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 19:18	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 19:18	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 19:18	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 19:18	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 19:18	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 19:18	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 19:18	1
2-Hexanone	<25		25		ug/L			05/30/15 19:18	1
Acetone	<25		25		ug/L			05/30/15 19:18	1
Benzene	<1.0		1.0		ug/L			05/30/15 19:18	1
Bromoform	<5.0		5.0		ug/L			05/30/15 19:18	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 19:18	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 19:18	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 19:18	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 19:18	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 19:18	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 19:18	1
Chloroform	<1.0		1.0		ug/L			05/30/15 19:18	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 19:18	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 19:18	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 19:18	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 19:18	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 19:18	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 19:18	1
2-Butanone (MEK)	<25		25		ug/L			05/30/15 19:18	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 19:18	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 19:18	1
o-Xylene	<5.0		5.0		ug/L			05/30/15 19:18	1
Styrene	<1.0		1.0		ug/L			05/30/15 19:18	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 19:18	1
Toluene	<1.0		1.0		ug/L			05/30/15 19:18	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 19:18	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 19:18	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 19:18	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 19:18	1
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*78 - 118*		*05/30/15 19:18*	*1*
Dibromofluoromethane	*110*		*81 - 121*		*05/30/15 19:18*	*1*
Toluene-d8 (Surr)	*108*		*80 - 120*		*05/30/15 19:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
1,4-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
1-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1

Client Sample ID: TW-3
Date Collected: 05/20/15 15:10
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2,4-Dichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2,4-Dimethylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2,4-Dinitrophenol	<33		33		ug/L		05/27/15 11:27	06/01/15 15:18	1
2-Chlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2-Methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2-Nitrophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
3 & 4 Methylphenol	<22		22		ug/L		05/27/15 11:27	06/01/15 15:18	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
4-Bromophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
4-Chloroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
4-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
4-Nitrophenol	<11	*	11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Acenaphthene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Acenaphthylene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Benzidine	<28	*	28		ug/L		05/27/15 11:27	06/01/15 15:18	1
Benzo[a]anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Benzo[a]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Benzo[b]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Benzo[k]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Butyl benzyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Carbazole	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Chrysene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Di-n-butyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Di-n-octyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Dibenzofuran	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Diethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Dimethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Fluorene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Hexachlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Hexachlorobutadiene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Hexachlorocyclopentadiene	<22		22		ug/L		05/27/15 11:27	06/01/15 15:18	1
Hexachloroethane	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Isophorone	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1

Client Sample ID: TW-3
Date Collected: 05/20/15 15:10
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Naphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Nitrobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Pentachlorophenol	<22		22		ug/L		05/27/15 11:27	06/01/15 15:18	1
Phenanthrene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Phenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
1,2,4-Trichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
1,2-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2,4-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
2,6-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1
Dinoseb	<11		11		ug/L		05/27/15 11:27	06/01/15 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*65*		*10 - 120*	*05/27/15 11:27*	*06/01/15 15:18*	*1*
Terphenyl-d14 (Surr)	*95*		*53 - 125*	*05/27/15 11:27*	*06/01/15 15:18*	*1*
2,4,6-Tribromophenol (Surr)	*63*		*15 - 135*	*05/27/15 11:27*	*06/01/15 15:18*	*1*
2-Fluorobiphenyl	*83*		*34 - 120*	*05/27/15 11:27*	*06/01/15 15:18*	*1*
2-Fluorophenol (Surr)	*52*		*10 - 120*	*05/27/15 11:27*	*06/01/15 15:18*	*1*
Nitrobenzene-d5 (Surr)	*83*		*27 - 120*	*05/27/15 11:27*	*06/01/15 15:18*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:43	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:43	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:43	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:43	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:43	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:43	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*40*		*10 - 125*	*05/22/15 08:24*	*05/29/15 18:43*	*1*
Tetrachloro-m-xylene	*87*		*46 - 150*	*05/22/15 08:24*	*05/29/15 18:43*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/22/15 11:05	05/25/15 14:34	1
Arsenic	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:34	1
Beryllium	<0.0030		0.0030		mg/L		05/22/15 11:05	05/25/15 14:34	1
Cadmium	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:34	1
Chromium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:34	1
Copper	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:34	1
Lead	**0.0073**		0.0050		mg/L		05/22/15 11:05	05/25/15 14:34	1
Nickel	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:34	1
Selenium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:34	1
Silver	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:34	1
Thallium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:34	1
Zinc	<0.020		0.020		mg/L		05/22/15 11:05	05/25/15 14:34	1

Client Sample ID: TW-3

Lab Sample ID: 400-105881-6

Date Collected: 05/20/15 15:10

Matrix: Water

Date Received: 05/20/15 15:55

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/22/15 09:00	05/26/15 10:24	1

Client Sample ID: B-4 0'-6'

Lab Sample ID: 400-105881-7

Date Collected: 05/20/15 09:40

Matrix: Solid

Date Received: 05/20/15 15:55

Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,1,2,2-Tetrachloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,1,2-Trichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,1-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,1-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,2-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,2-Dichloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,2-Dichloropropane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,3-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
1,4-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
2-Hexanone	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Acetone	**62**		29		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Benzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Bromoform	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Bromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Carbon disulfide	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Carbon tetrachloride	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Chlorobenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Chlorodibromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Chloroethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Chloroform	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Chloromethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
cis-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
cis-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Dichlorobromomethane	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Ethylbenzene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
m-Xylene & p-Xylene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
2-Butanone (MEK)	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Methylene Chloride	<17		17		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
o-Xylene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Styrene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Tetrachloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Toluene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
trans-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
trans-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Trichloroethene	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Vinyl chloride	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1
Xylenes, Total	<5.8		5.8		ug/Kg	☼	06/02/15 11:57	06/02/15 21:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*110*		*72 - 122*	*06/02/15 11:57*	*06/02/15 21:29*	*1*

Client Sample ID: B-4 0'-6'
Date Collected: 05/20/15 09:40
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-7
Matrix: Solid
Percent Solids: 79.1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*79 - 123*	*06/02/15 11:57*	*06/02/15 21:29*	*1*
Toluene-d8 (Surr)	*104*		*80 - 120*	*06/02/15 11:57*	*06/02/15 21:29*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<420	*	420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
1,4-Dichlorobenzene	<420	*	420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
1-Methylnaphthalene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2,4-Dichlorophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2-Chlorophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2-Methylphenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2-Nitroaniline	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2-Nitrophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
3 & 4 Methylphenol	<830		830		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
4-Chloroaniline	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
4-Nitroaniline	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
4-Nitrophenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Acenaphthene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Acenaphthylene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Anthracene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Carbazole	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Chrysene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Dibenzofuran	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Diethyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Dimethyl phthalate	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Fluoranthene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1

Client Sample ID: B-4 0'-6'
Date Collected: 05/20/15 09:40
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-7
Matrix: Solid
Percent Solids: 79.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluorene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Hexachlorobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Hexachloroethane	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Isophorone	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
N-Nitrosodimethylamine	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Naphthalene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Nitrobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Pentachlorophenol	<830		830		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Phenanthrene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Phenol	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Pyrene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
1,2,4-Trichlorobenzene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
1,2-Dichlorobenzene	<420	*	420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1
Dinoseb	<420		420		ug/Kg	☼	05/27/15 07:29	06/02/15 18:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*58*		*37 - 120*	*05/27/15 07:29*	*06/02/15 18:04*	*1*
Terphenyl-d14 (Surr)	*90*		*36 - 134*	*05/27/15 07:29*	*06/02/15 18:04*	*1*
2,4,6-Tribromophenol (Surr)	*68*		*32 - 133*	*05/27/15 07:29*	*06/02/15 18:04*	*1*
2-Fluorobiphenyl	*52*		*44 - 120*	*05/27/15 07:29*	*06/02/15 18:04*	*1*
2-Fluorophenol (Surr)	*48*		*25 - 120*	*05/27/15 07:29*	*06/02/15 18:04*	*1*
Nitrobenzene-d5 (Surr)	*52*		*27 - 120*	*05/27/15 07:29*	*06/02/15 18:04*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 10:31	1
PCB-1221	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 10:31	1
PCB-1232	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 10:31	1
PCB-1242	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 10:31	1
PCB-1248	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 10:31	1
PCB-1254	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 10:31	1
PCB-1260	<11		11		ug/Kg	☼	05/22/15 08:08	05/27/15 10:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*80*		*30 - 150*	*05/22/15 08:08*	*05/27/15 10:31*	*1*
Tetrachloro-m-xylene	*67*		*43 - 142*	*05/22/15 08:08*	*05/27/15 10:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.63		0.63		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Aluminum	**4100**		13		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Arsenic	**1.2**		0.63		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Beryllium	<0.38		0.38		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1

Client Sample ID: B-4 0'-6'

Lab Sample ID: 400-105881-7

Date Collected: 05/20/15 09:40

Matrix: Solid

Date Received: 05/20/15 15:55

Percent Solids: 79.1

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.63		0.63		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Chromium	**18**		1.3		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Copper	**44**		1.3		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Nickel	**12**		0.63		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Lead	**140**		0.63		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Antimony	<6.3		6.3		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Selenium	<1.3		1.3		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Thallium	<1.3		1.3		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1
Zinc	**36**		2.5		mg/Kg	☼	05/27/15 09:35	05/28/15 15:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.14**		0.020		mg/Kg	☼	05/22/15 09:11	05/26/15 13:05	1

Client Sample ID: TW-4

Lab Sample ID: 400-105881-8

Date Collected: 05/20/15 10:43

Matrix: Water

Date Received: 05/20/15 15:55

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 19:44	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 19:44	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 19:44	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 19:44	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 19:44	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 19:44	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 19:44	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 19:44	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 19:44	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 19:44	1
2-Hexanone	<25		25		ug/L			05/30/15 19:44	1
Acetone	<25		25		ug/L			05/30/15 19:44	1
Benzene	<1.0		1.0		ug/L			05/30/15 19:44	1
Bromoform	<5.0		5.0		ug/L			05/30/15 19:44	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 19:44	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 19:44	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 19:44	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 19:44	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 19:44	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 19:44	1
Chloroform	<1.0		1.0		ug/L			05/30/15 19:44	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 19:44	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 19:44	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 19:44	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 19:44	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 19:44	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 19:44	1
2-Butanone (MEK)	<25		25		ug/L			05/30/15 19:44	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 19:44	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 19:44	1

Client Sample ID: TW-4
Date Collected: 05/20/15 10:43
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<5.0		5.0		ug/L			05/30/15 19:44	1
Styrene	<1.0		1.0		ug/L			05/30/15 19:44	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 19:44	1
Toluene	<1.0		1.0		ug/L			05/30/15 19:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 19:44	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 19:44	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 19:44	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 19:44	1
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*96*		*78 - 118*		*05/30/15 19:44*	*1*
Dibromofluoromethane	*114*		*81 - 121*		*05/30/15 19:44*	*1*
Toluene-d8 (Surr)	*109*		*80 - 120*		*05/30/15 19:44*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
1,4-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
1-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2,4-Dichlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2,4-Dimethylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2,4-Dinitrophenol	<32		32		ug/L		05/27/15 11:27	06/01/15 15:54	1
2-Chlorophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2-Methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2-Nitrophenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
3 & 4 Methylphenol	<21		21		ug/L		05/27/15 11:27	06/01/15 15:54	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
4-Bromophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
4-Chloroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
4-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
4-Nitrophenol	<11	*	11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Acenaphthene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Acenaphthylene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Benzidine	<27	*	27		ug/L		05/27/15 11:27	06/01/15 15:54	1
Benzo[a]anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Benzo[a]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Benzo[b]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Benzo[k]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1

Client: Thompson Engineering Inc
Project/Site: Buffalo Properties

TestAmerica Job ID: 400-105881-1

Client Sample ID: TW-4
Date Collected: 05/20/15 10:43
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-8
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Butyl benzyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Carbazole	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Chrysene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Di-n-butyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Di-n-octyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Dibenzofuran	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Diethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Dimethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Fluoranthene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Fluorene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Hexachlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Hexachlorobutadiene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Hexachlorocyclopentadiene	<21		21		ug/L		05/27/15 11:27	06/01/15 15:54	1
Hexachloroethane	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Isophorone	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
N-Nitrosodimethylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Naphthalene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Nitrobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Pentachlorophenol	<21		21		ug/L		05/27/15 11:27	06/01/15 15:54	1
Phenanthrene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Phenol	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Pyrene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
1,2,4-Trichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
1,2-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2,4-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
2,6-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1
Dinoseb	<11		11		ug/L		05/27/15 11:27	06/01/15 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*73*		*10 - 120*	*05/27/15 11:27*	*06/01/15 15:54*	*1*
Terphenyl-d14 (Surr)	*93*		*53 - 125*	*05/27/15 11:27*	*06/01/15 15:54*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*15 - 135*	*05/27/15 11:27*	*06/01/15 15:54*	*1*
2-Fluorobiphenyl	*81*		*34 - 120*	*05/27/15 11:27*	*06/01/15 15:54*	*1*
2-Fluorophenol (Surr)	*57*		*10 - 120*	*05/27/15 11:27*	*06/01/15 15:54*	*1*
Nitrobenzene-d5 (Surr)	*79*		*27 - 120*	*05/27/15 11:27*	*06/01/15 15:54*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 19:08	1
PCB-1221	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 19:08	1
PCB-1232	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 19:08	1
PCB-1242	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 19:08	1
PCB-1248	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 19:08	1
PCB-1254	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 19:08	1
PCB-1260	<0.53		0.53		ug/L		05/22/15 08:24	05/29/15 19:08	1

Client Sample ID: TW-4

Date Collected: 05/20/15 10:43
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-8

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*33*		*10 - 125*	*05/22/15 08:24*	*05/29/15 19:08*	*1*
Tetrachloro-m-xylene	*83*		*46 - 150*	*05/22/15 08:24*	*05/29/15 19:08*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/22/15 11:05	05/25/15 14:37	1
Arsenic	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:37	1
Beryllium	<0.0030		0.0030		mg/L		05/22/15 11:05	05/25/15 14:37	1
Cadmium	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:37	1
Chromium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:37	1
Copper	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:37	1
Lead	**0.029**		0.0050		mg/L		05/22/15 11:05	05/25/15 14:37	1
Nickel	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:37	1
Selenium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:37	1
Silver	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 14:37	1
Thallium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 14:37	1
Zinc	<0.020		0.020		mg/L		05/22/15 11:05	05/25/15 14:37	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/22/15 09:00	05/26/15 10:25	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-259157/4
Matrix: Water
Analysis Batch: 259157

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 11:58	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 11:58	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
2-Hexanone	<25		25		ug/L			05/30/15 11:58	1
Acetone	<25		25		ug/L			05/30/15 11:58	1
Benzene	<1.0		1.0		ug/L			05/30/15 11:58	1
Bromoform	<5.0		5.0		ug/L			05/30/15 11:58	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 11:58	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 11:58	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 11:58	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 11:58	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 11:58	1
Chloroform	<1.0		1.0		ug/L			05/30/15 11:58	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 11:58	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 11:58	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 11:58	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 11:58	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 11:58	1
2-Butanone (MEK)	<25		25		ug/L			05/30/15 11:58	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 11:58	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 11:58	1
o-Xylene	<5.0		5.0		ug/L			05/30/15 11:58	1
Styrene	<1.0		1.0		ug/L			05/30/15 11:58	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
Toluene	<1.0		1.0		ug/L			05/30/15 11:58	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 11:58	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 11:58	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 11:58	1
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 11:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*94*		*78 - 118*		*05/30/15 11:58*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*05/30/15 11:58*	*1*
Toluene-d8 (Surr)	*107*		*80 - 120*		*05/30/15 11:58*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259157/1002
Matrix: Water
Analysis Batch: 259157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	43.8		ug/L		88	66 - 130
1,1,2,2-Tetrachloroethane	50.0	54.6		ug/L		109	68 - 132
1,1,2-Trichloroethane	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	44.7		ug/L		89	75 - 126
1,1-Dichloroethene	50.0	42.1		ug/L		84	50 - 134
1,2-Dichlorobenzene	50.0	49.4		ug/L		99	80 - 121
1,2-Dichloroethane	50.0	49.3		ug/L		99	69 - 128
1,2-Dichloropropane	50.0	45.0		ug/L		90	77 - 126
1,3-Dichlorobenzene	50.0	51.9		ug/L		104	77 - 124
1,4-Dichlorobenzene	50.0	52.1		ug/L		104	79 - 120
2-Hexanone	200	213		ug/L		106	60 - 150
Acetone	200	221		ug/L		110	24 - 150
Benzene	50.0	43.8		ug/L		88	79 - 120
Bromoform	50.0	60.5		ug/L		121	65 - 121
Bromomethane	50.0	44.0		ug/L		88	10 - 150
Carbon disulfide	50.0	42.3		ug/L		85	41 - 140
Carbon tetrachloride	50.0	46.1		ug/L		92	46 - 141
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120
Chlorodibromomethane	50.0	51.3		ug/L		103	63 - 125
Chloroethane	50.0	46.7		ug/L		93	37 - 150
Chloroform	50.0	45.4		ug/L		91	73 - 122
Chloromethane	50.0	46.4		ug/L		93	49 - 141
cis-1,2-Dichloroethene	50.0	46.7		ug/L		93	78 - 122
cis-1,3-Dichloropropene	50.0	45.5		ug/L		91	70 - 122
Dichlorobromomethane	50.0	48.3		ug/L		97	75 - 127
Ethylbenzene	50.0	48.4		ug/L		97	80 - 120
m-Xylene & p-Xylene	50.0	48.1		ug/L		96	70 - 130
2-Butanone (MEK)	200	203		ug/L		101	62 - 137
4-Methyl-2-pentanone (MIBK)	200	183		ug/L		91	63 - 150
Methylene Chloride	50.0	47.0		ug/L		94	70 - 130
o-Xylene	50.0	46.0		ug/L		92	70 - 130
Styrene	50.0	46.9		ug/L		94	79 - 124
Tetrachloroethene	50.0	47.4		ug/L		95	76 - 124
Toluene	50.0	48.7		ug/L		97	80 - 120
trans-1,2-Dichloroethene	50.0	42.7		ug/L		85	70 - 126
trans-1,3-Dichloropropene	50.0	50.1		ug/L		100	64 - 120
Trichloroethene	50.0	43.4		ug/L		87	77 - 120
Vinyl chloride	50.0	44.9		ug/L		90	60 - 128
Xylenes, Total	100	94.1		ug/L		94	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*112*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*108*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259530/1-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Hexanone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Acetone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Benzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromoform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloromethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Butanone (MEK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Methylene Chloride	<15		15		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
o-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Styrene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Toluene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Trichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 122*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 12:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259530/2-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	72 - 121
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	67 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	75 - 118
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	61 - 128
1,1-Dichloroethene	50.0	48.7		ug/Kg		97	62 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	76 - 120
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	64 - 129
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	78 - 118
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	77 - 118
2-Hexanone	200	203		ug/Kg		102	54 - 140
Acetone	200	193		ug/Kg		96	43 - 150
Benzene	50.0	48.6		ug/Kg		97	74 - 119
Bromoform	50.0	48.2		ug/Kg		96	54 - 125
Bromomethane	50.0	55.9		ug/Kg		112	25 - 150
Carbon disulfide	50.0	44.4		ug/Kg		89	26 - 150
Carbon tetrachloride	50.0	49.8		ug/Kg		100	70 - 128
Chlorobenzene	50.0	47.9		ug/Kg		96	80 - 116
Chlorodibromomethane	50.0	50.2		ug/Kg		100	65 - 131
Chloroethane	50.0	51.2		ug/Kg		102	22 - 150
Chloroform	50.0	48.9		ug/Kg		98	74 - 119
Chloromethane	50.0	50.3		ug/Kg		101	36 - 147
cis-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	68 - 126
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 125
Dichlorobromomethane	50.0	49.2		ug/Kg		98	68 - 128
Ethylbenzene	50.0	49.3		ug/Kg		99	78 - 120
m-Xylene & p-Xylene	50.0	48.8		ug/Kg		98	70 - 120
2-Butanone (MEK)	200	205		ug/Kg		103	62 - 126
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	56 - 137
Methylene Chloride	50.0	45.4		ug/Kg		91	45 - 150
o-Xylene	50.0	49.3		ug/Kg		99	70 - 120
Styrene	50.0	49.0		ug/Kg		98	66 - 132
Tetrachloroethene	50.0	47.1		ug/Kg		94	74 - 126
Toluene	50.0	47.8		ug/Kg		96	76 - 120
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	65 - 130
trans-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	65 - 126
Trichloroethene	50.0	48.6		ug/Kg		97	76 - 122
Vinyl chloride	50.0	52.1		ug/Kg		104	52 - 134
Xylenes, Total	100	98.1		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*101*		*79 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Chlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzidine	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Carbazole	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Chrysene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenzofuran	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Diethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dimethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluorene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobutadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Isophorone	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Naphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Nitrobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pentachlorophenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenanthrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dinoseb	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Terphenyl-d14 (Surr)	*113*		*36 - 134*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 133*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorobiphenyl	*73*		*44 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorophenol (Surr)	*31*		*25 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Nitrobenzene-d5 (Surr)	*31*		*27 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	531	*	ug/Kg		53	58 - 120
1-Methylnaphthalene	1000	861		ug/Kg		86	66 - 120
2,4,5-Trichlorophenol	1000	933		ug/Kg		93	62 - 120
2,4,6-Trichlorophenol	1000	901		ug/Kg		90	59 - 120
2,4-Dichlorophenol	1000	930		ug/Kg		93	67 - 120
2,4-Dimethylphenol	1000	895		ug/Kg		89	65 - 120
2,4-Dinitrophenol	2610	2420		ug/Kg		93	23 - 124
2-Chlorophenol	1000	816		ug/Kg		82	60 - 120
2-Nitrophenol	1000	816		ug/Kg		82	56 - 120
Acenaphthene	1000	883		ug/Kg		88	62 - 120
Acenaphthylene	1000	913		ug/Kg		91	61 - 120
Anthracene	1000	983		ug/Kg		98	68 - 120
Benzo[a]anthracene	1000	958		ug/Kg		96	67 - 120
Benzo[a]pyrene	1000	997		ug/Kg		100	64 - 120
Benzo[b]fluoranthene	1000	1030		ug/Kg		103	58 - 121
Benzo[g,h,i]perylene	1000	833		ug/Kg		83	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	849		ug/Kg		85	60 - 120
Bis(2-chloroethyl)ether	1000	650		ug/Kg		65	55 - 120
Bis(2-ethylhexyl) phthalate	1000	946		ug/Kg		95	59 - 136
Butyl benzyl phthalate	1000	979		ug/Kg		98	55 - 135
Carbazole	1000	1100		ug/Kg		110	69 - 121
Chrysene	1000	923		ug/Kg		92	65 - 120
Di-n-butyl phthalate	1000	1000		ug/Kg		100	67 - 132
Di-n-octyl phthalate	1000	791		ug/Kg		79	58 - 132
Dibenz(a,h)anthracene	1000	848		ug/Kg		85	58 - 130
Dibenzofuran	1000	921		ug/Kg		92	65 - 120
Diethyl phthalate	1000	965		ug/Kg		96	62 - 124
Dimethyl phthalate	1000	949		ug/Kg		95	52 - 123
Fluoranthene	1000	973		ug/Kg		97	67 - 123
Fluorene	1000	976		ug/Kg		98	64 - 120
Hexachlorobenzene	1000	962		ug/Kg		96	57 - 131
Hexachlorobutadiene	1000	698		ug/Kg		70	56 - 120
Hexachlorocyclopentadiene	1000	867		ug/Kg		87	1 - 153
Hexachloroethane	1000	529		ug/Kg		53	53 - 120
Indeno[1,2,3-cd]pyrene	1000	854		ug/Kg		85	55 - 133
Isophorone	1000	847		ug/Kg		85	63 - 120
N-Nitrosodi-n-propylamine	1000	858		ug/Kg		86	34 - 150
N-Nitrosodimethylamine	1000	537		ug/Kg		54	26 - 140
N-Nitrosodiphenylamine	2000	1920		ug/Kg		96	16 - 160
Naphthalene	1000	755		ug/Kg		76	59 - 120
Nitrobenzene	1000	766		ug/Kg		77	53 - 125
Pentachlorophenol	2000	1830		ug/Kg		91	30 - 136
Phenanthrene	1000	953		ug/Kg		95	62 - 130
Phenol	1000	864		ug/Kg		86	54 - 120
Pyrene	1000	1050		ug/Kg		105	57 - 127
1,2,4-Trichlorobenzene	1000	728		ug/Kg		73	62 - 120
1,2-Dichlorobenzene	1000	575	*	ug/Kg		57	58 - 120
2,4-Dinitrotoluene	1000	981		ug/Kg		98	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*37 - 120*
Terphenyl-d14 (Surr)	*107*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*106*		*32 - 133*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*25 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,4-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4,5-Trichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4,6-Trichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dimethylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dinitrophenol	<30		30		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Chlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Methylnaphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Nitroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Nitrophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
3 & 4 Methylphenol	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
3,3'-Dichlorobenzidine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Bromophenyl phenyl ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chloro-3-methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chloroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Nitroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Nitrophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Acenaphthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Acenaphthylene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzidine	<25		25		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[a]anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[a]pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[b]fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[g,h,i]perylene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[k]fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-chloroethyl)ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Butyl benzyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Carbazole	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Chrysene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Di-n-butyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Di-n-octyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dibenz(a,h)anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dibenzofuran	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Diethyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dimethyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Fluorene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorobutadiene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorocyclopentadiene	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachloroethane	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodimethylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodiphenylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Naphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Nitrobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Pentachlorophenol	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
Phenanthrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Phenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,2,4-Trichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,2-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dinitrotoluene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,6-Dinitrotoluene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dinoseb	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*81*		*10 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
Terphenyl-d14 (Surr)	*115*		*53 - 125*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*15 - 135*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2-Fluorobiphenyl	*89*		*34 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2-Fluorophenol (Surr)	*71*		*10 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
Nitrobenzene-d5 (Surr)	*92*		*27 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*

Lab Sample ID: LCS 400-258628/2-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	30.0	18.6		ug/L		62	51 - 120
1-Methylnaphthalene	30.0	25.9		ug/L		86	59 - 120
2,4,5-Trichlorophenol	30.0	27.4		ug/L		91	53 - 130
2,4,6-Trichlorophenol	30.0	27.1		ug/L		90	52 - 131
2,4-Dichlorophenol	30.0	27.6		ug/L		92	52 - 125
2,4-Dimethylphenol	30.0	25.0		ug/L		83	52 - 121
2,4-Dinitrophenol	78.4	76.1		ug/L		97	22 - 146
2-Chlorophenol	30.0	22.9		ug/L		76	45 - 120
2-Nitrophenol	30.0	25.6		ug/L		85	47 - 129
Acenaphthene	30.0	26.7		ug/L		89	57 - 125
Acenaphthylene	30.0	27.1		ug/L		90	59 - 125
Anthracene	30.0	28.1		ug/L		94	65 - 128
Benzo[a]anthracene	30.0	26.2		ug/L		87	63 - 126
Benzo[a]pyrene	30.0	26.9		ug/L		90	61 - 125
Benzo[b]fluoranthene	30.0	26.9		ug/L		90	49 - 140
Benzo[g,h,i]perylene	30.0	26.8		ug/L		89	51 - 149
Benzo[k]fluoranthene	30.0	26.4		ug/L		88	56 - 138
Bis(2-chloroethoxy)methane	30.0	26.5		ug/L		88	54 - 123
Bis(2-chloroethyl)ether	30.0	24.7		ug/L		82	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258628/2-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	30.0	26.8		ug/L		89	62 - 140
Butyl benzyl phthalate	30.0	25.2		ug/L		84	51 - 150
Carbazole	30.0	32.4		ug/L		108	57 - 136
Chrysene	30.0	26.0		ug/L		87	60 - 126
Di-n-butyl phthalate	30.0	27.8		ug/L		93	59 - 144
Di-n-octyl phthalate	30.0	26.1		ug/L		87	55 - 140
Dibenz(a,h)anthracene	30.0	27.0		ug/L		90	57 - 133
Dibenzofuran	30.0	27.4		ug/L		91	62 - 124
Diethyl phthalate	30.0	26.9		ug/L		90	55 - 140
Dimethyl phthalate	30.0	27.5		ug/L		92	50 - 133
Fluoranthene	30.0	29.1		ug/L		97	66 - 131
Fluorene	30.0	28.2		ug/L		94	60 - 132
Hexachlorobenzene	30.0	27.7		ug/L		92	60 - 138
Hexachlorobutadiene	30.0	20.1		ug/L		67	48 - 126
Hexachlorocyclopentadiene	30.0	13.2	J	ug/L		44	1 - 139
Hexachloroethane	30.0	16.2		ug/L		54	46 - 121
Indeno[1,2,3-cd]pyrene	30.0	27.5		ug/L		92	55 - 135
Isophorone	30.0	26.2		ug/L		87	57 - 122
N-Nitrosodi-n-propylamine	30.0	25.5		ug/L		85	41 - 143
N-Nitrosodimethylamine	30.0	21.4		ug/L		71	21 - 134
N-Nitrosodiphenylamine	60.0	55.4		ug/L		92	10 - 185
Naphthalene	30.0	23.6		ug/L		79	55 - 125
Nitrobenzene	30.0	25.3		ug/L		84	52 - 128
Pentachlorophenol	60.0	56.9		ug/L		95	38 - 138
Phenanthrene	30.0	27.1		ug/L		90	64 - 133
Phenol	30.0	23.2		ug/L		77	37 - 120
Pyrene	30.0	25.0		ug/L		83	55 - 142
1,2,4-Trichlorobenzene	30.0	21.7		ug/L		72	57 - 120
1,2-Dichlorobenzene	30.0	19.5		ug/L		65	53 - 120
2,4-Dinitrotoluene	30.0	28.4		ug/L		95	54 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*82*		*10 - 120*
Terphenyl-d14 (Surr)	*91*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*112*		*15 - 135*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol (Surr)	*58*		*10 - 120*
Nitrobenzene-d5 (Surr)	*88*		*27 - 120*

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	30.0	20.8		ug/L		69	51 - 120	11	30
1-Methylnaphthalene	30.0	26.2		ug/L		87	59 - 120	1	30
2,4,5-Trichlorophenol	30.0	26.0		ug/L		87	53 - 130	5	30
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol			30.0	25.9		ug/L		86	52 - 125	7	30
2,4-Dimethylphenol			30.0	22.9		ug/L		76	52 - 121	9	30
2,4-Dinitrophenol			78.4	67.9		ug/L		87	22 - 146	11	30
2-Chlorophenol			30.0	22.6		ug/L		75	45 - 120	2	30
2-Nitrophenol			30.0	24.5		ug/L		82	47 - 129	5	30
Acenaphthene			30.0	26.5		ug/L		88	57 - 125	1	30
Acenaphthylene			30.0	26.8		ug/L		89	59 - 125	1	30
Anthracene			30.0	27.6		ug/L		92	65 - 128	2	30
Benzo[a]anthracene			30.0	26.1		ug/L		87	63 - 126	0	30
Benzo[a]pyrene			30.0	26.4		ug/L		88	61 - 125	2	30
Benzo[b]fluoranthene			30.0	27.1		ug/L		90	49 - 140	1	30
Benzo[g,h,i]perylene			30.0	25.9		ug/L		86	51 - 149	3	30
Benzo[k]fluoranthene			30.0	26.8		ug/L		89	56 - 138	1	30
Bis(2-chloroethoxy)methane			30.0	25.3		ug/L		84	54 - 123	4	30
Bis(2-chloroethyl)ether			30.0	22.6		ug/L		75	47 - 120	9	30
Bis(2-ethylhexyl) phthalate			30.0	27.7		ug/L		92	62 - 140	3	30
Butyl benzyl phthalate			30.0	25.8		ug/L		86	51 - 150	2	30
Carbazole			30.0	31.2		ug/L		104	57 - 136	4	30
Chrysene			30.0	25.7		ug/L		86	60 - 126	1	30
Di-n-butyl phthalate			30.0	27.7		ug/L		92	59 - 144	1	30
Di-n-octyl phthalate			30.0	25.6		ug/L		85	55 - 140	2	30
Dibenz(a,h)anthracene			30.0	26.2		ug/L		87	57 - 133	3	30
Dibenzofuran			30.0	27.1		ug/L		90	62 - 124	1	30
Diethyl phthalate			30.0	26.0		ug/L		87	55 - 140	3	30
Dimethyl phthalate			30.0	26.2		ug/L		87	50 - 133	5	30
Fluoranthene			30.0	28.1		ug/L		94	66 - 131	4	30
Fluorene			30.0	27.7		ug/L		92	60 - 132	2	30
Hexachlorobenzene			30.0	28.1		ug/L		94	60 - 138	1	30
Hexachlorobutadiene			30.0	23.4		ug/L		78	48 - 126	15	30
Hexachlorocyclopentadiene			30.0	12.1	J	ug/L		40	1 - 139	8	30
Hexachloroethane			30.0	19.1		ug/L		64	46 - 121	16	30
Indeno[1,2,3-cd]pyrene			30.0	26.5		ug/L		88	55 - 135	4	30
Isophorone			30.0	25.5		ug/L		85	57 - 122	2	30
N-Nitrosodi-n-propylamine			30.0	24.9		ug/L		83	41 - 143	3	30
N-Nitrosodimethylamine			30.0	19.3		ug/L		64	21 - 134	10	30
N-Nitrosodiphenylamine			60.0	54.2		ug/L		90	10 - 185	2	30
Naphthalene			30.0	24.1		ug/L		80	55 - 125	2	30
Nitrobenzene			30.0	24.6		ug/L		82	52 - 128	3	30
Pentachlorophenol			60.0	55.3		ug/L		92	38 - 138	3	30
Phenanthrene			30.0	26.8		ug/L		89	64 - 133	1	30
Phenol			30.0	19.1		ug/L		64	37 - 120	19	30
Pyrene			30.0	25.8		ug/L		86	55 - 142	3	30
1,2,4-Trichlorobenzene			30.0	23.5		ug/L		78	57 - 120	8	30
1,2-Dichlorobenzene			30.0	21.4		ug/L		71	53 - 120	9	30
2,4-Dinitrotoluene			30.0	27.4		ug/L		91	54 - 141	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*66*		*10 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*93*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*103*		*15 - 135*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol (Surr)	*64*		*10 - 120*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-258140/19-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1221	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1232	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1242	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1248	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1254	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1260	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*30 - 150*	*05/22/15 08:08*	*05/27/15 03:44*	*1*
Tetrachloro-m-xylene	*53*		*43 - 142*	*05/22/15 08:08*	*05/27/15 03:44*	*1*

Lab Sample ID: LCS 400-258140/18-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	176		ug/Kg		105	54 - 126
PCB-1260	167	205		ug/Kg		123	56 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*30 - 150*
Tetrachloro-m-xylene	*99*		*43 - 142*

Lab Sample ID: MB 400-258146/1-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1221	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1232	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1242	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1248	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 400-258146/1-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258146

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1
PCB-1260	<0.50		0.50		ug/L		05/22/15 08:24	05/29/15 12:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*75*		*10 - 125*	*05/22/15 08:24*	*05/29/15 12:42*	*1*
Tetrachloro-m-xylene	*90*		*46 - 150*	*05/22/15 08:24*	*05/29/15 12:42*	*1*

Lab Sample ID: LCS 400-258146/4-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258146

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	4.93		ug/L		99	54 - 126		
PCB-1260			5.00	4.48		ug/L		90	56 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*10 - 125*
Tetrachloro-m-xylene	*90*		*46 - 150*

Lab Sample ID: LCSD 400-258146/5-A
Matrix: Water
Analysis Batch: 259032

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258146

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	5.08		ug/L		102	54 - 126	3	40
PCB-1260			5.00	5.00		ug/L		100	56 - 139	11	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*84*		*10 - 125*
Tetrachloro-m-xylene	*91*		*46 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-258513/1-A
Matrix: Solid
Analysis Batch: 258974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<10		10		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Arsenic	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Beryllium	<0.30		0.30		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Cadmium	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Chromium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Copper	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Nickel	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Lead	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Antimony	<5.1		5.1		mg/Kg		05/27/15 09:35	05/28/15 14:41	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-258513/1-A
Matrix: Solid
Analysis Batch: 258974

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258513

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.51		0.51		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Selenium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Thallium	<1.0		1.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1
Zinc	<2.0		2.0		mg/Kg		05/27/15 09:35	05/28/15 14:41	1

Lab Sample ID: LCS 400-258513/2-A
Matrix: Solid
Analysis Batch: 258974

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258513

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	1030	1080		mg/Kg		104	80 - 120
Arsenic	103	102		mg/Kg		99	80 - 120
Beryllium	51.6	53.8		mg/Kg		104	80 - 120
Cadmium	51.6	50.7		mg/Kg		98	80 - 120
Chromium	103	106		mg/Kg		103	80 - 120
Copper	103	112		mg/Kg		108	80 - 120
Nickel	103	102		mg/Kg		99	80 - 120
Lead	103	101		mg/Kg		98	80 - 120
Antimony	103	105		mg/Kg		102	80 - 120
Silver	51.6	51.4		mg/Kg		100	80 - 120
Selenium	103	98.0		mg/Kg		95	80 - 120
Thallium	103	100		mg/Kg		97	80 - 120
Zinc	103	105		mg/Kg		102	80 - 120

Lab Sample ID: MB 400-258171/1-A
Matrix: Water
Analysis Batch: 258392

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258171

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 13:47	1
Beryllium	<0.0030		0.0030		mg/L		05/22/15 11:05	05/25/15 13:47	1
Cadmium	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 13:47	1
Chromium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 13:47	1
Copper	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 13:47	1
Nickel	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 13:47	1
Lead	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 13:47	1
Antimony	<0.050		0.050		mg/L		05/22/15 11:05	05/25/15 13:47	1
Silver	<0.0050		0.0050		mg/L		05/22/15 11:05	05/25/15 13:47	1
Selenium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 13:47	1
Thallium	<0.010		0.010		mg/L		05/22/15 11:05	05/25/15 13:47	1
Zinc	<0.020		0.020		mg/L		05/22/15 11:05	05/25/15 13:47	1

Lab Sample ID: LCS 400-258171/2-A
Matrix: Water
Analysis Batch: 258392

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.04		mg/L		104	80 - 120
Beryllium	0.500	0.522		mg/L		104	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-258171/2-A
Matrix: Water
Analysis Batch: 258392

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258171

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.513		mg/L		103	80 - 120
Chromium	1.00	1.05		mg/L		105	80 - 120
Copper	1.00	1.02		mg/L		102	80 - 120
Nickel	1.00	1.01		mg/L		101	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Antimony	1.00	1.05		mg/L		105	80 - 120
Silver	0.500	0.519		mg/L		104	80 - 120
Selenium	1.00	1.06		mg/L		106	80 - 120
Thallium	1.00	1.04		mg/L		104	80 - 120
Zinc	1.00	1.07		mg/L		107	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-258013/14-A
Matrix: Water
Analysis Batch: 258453

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258013

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/21/15 10:47	05/26/15 09:42	1

Lab Sample ID: LCS 400-258013/15-A
Matrix: Water
Analysis Batch: 258453

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258013

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	1.08		ug/L		107	80 - 120

Lab Sample ID: LCSD 400-258013/26-A
Matrix: Water
Analysis Batch: 258453

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258013

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	1.01	1.00		ug/L		100	80 - 120	7	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-257977/14-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 257977

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.012		0.012		mg/Kg		05/21/15 09:12	05/26/15 12:05	1

Lab Sample ID: LCS 400-257977/15-A
Matrix: Solid
Analysis Batch: 258494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 257977

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0656	0.0645		mg/Kg		98	80 - 120

Client Sample ID: B-1 3'-5'

Lab Sample ID: 400-105881-1

Date Collected: 05/20/15 08:34

Matrix: Solid

Date Received: 05/20/15 15:55

Percent Solids: 80.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 20:15	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 16:09	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 09:12	MAM	TAL PEN
Total/NA	Prep	3050B			258513	05/27/15 09:35	KWN	TAL PEN
Total/NA	Analysis	6010B		1	258974	05/28/15 15:20	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/22/15 09:11	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:01	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258232	05/22/15 14:54	CMW	TAL PEN

Client Sample ID: TW-1

Lab Sample ID: 400-105881-2

Date Collected: 05/20/15 13:40

Matrix: Water

Date Received: 05/20/15 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259157	05/30/15 18:26	EAS	TAL PEN
Total/NA	Prep	3520C			258628	05/27/15 11:27	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 14:06	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 17:52	MAM	TAL PEN
Total Recoverable	Prep	3005A			258171	05/22/15 11:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258392	05/25/15 14:27	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/22/15 09:00	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 10:21	JAP	TAL PEN

Client Sample ID: B-2 3.5'-5'

Lab Sample ID: 400-105881-3

Date Collected: 05/20/15 08:56

Matrix: Solid

Date Received: 05/20/15 15:55

Percent Solids: 84.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 20:40	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 16:47	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 09:38	MAM	TAL PEN
Total/NA	Prep	3050B			258513	05/27/15 09:35	KWN	TAL PEN
Total/NA	Analysis	6010B		1	258974	05/28/15 15:24	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/22/15 09:11	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:02	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258232	05/22/15 14:54	CMW	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Buffalo Properties

TestAmerica Job ID: 400-105881-1

Client Sample ID: TW-2

Lab Sample ID: 400-105881-4

Date Collected: 05/20/15 14:26

Matrix: Water

Date Received: 05/20/15 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259157	05/30/15 18:52	EAS	TAL PEN
Total/NA	Prep	3520C			258628	05/27/15 11:27	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 14:42	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 18:17	MAM	TAL PEN
Total Recoverable	Prep	3005A			258171	05/22/15 11:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258392	05/25/15 14:30	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/22/15 09:00	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 10:22	JAP	TAL PEN

Client Sample ID: B-3 0'-4'

Lab Sample ID: 400-105881-5

Date Collected: 05/20/15 09:10

Matrix: Solid

Date Received: 05/20/15 15:55

Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 21:04	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 17:26	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 10:05	MAM	TAL PEN
Total/NA	Prep	3050B			258513	05/27/15 09:35	KWN	TAL PEN
Total/NA	Analysis	6010B		1	258974	05/28/15 15:37	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/22/15 09:11	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:03	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258232	05/22/15 14:54	CMW	TAL PEN

Client Sample ID: TW-3

Lab Sample ID: 400-105881-6

Date Collected: 05/20/15 15:10

Matrix: Water

Date Received: 05/20/15 15:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259157	05/30/15 19:18	EAS	TAL PEN
Total/NA	Prep	3520C			258628	05/27/15 11:27	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 15:18	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 18:43	MAM	TAL PEN
Total Recoverable	Prep	3005A			258171	05/22/15 11:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258392	05/25/15 14:34	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/22/15 09:00	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 10:24	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Buffalo Properties

TestAmerica Job ID: 400-105881-1

Client Sample ID: B-4 0'-6'

Date Collected: 05/20/15 09:40
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-7

Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 21:29	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 18:04	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 08:08	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 10:31	MAM	TAL PEN
Total/NA	Prep	3050B			258513	05/27/15 09:35	KWN	TAL PEN
Total/NA	Analysis	6010B		1	258974	05/28/15 15:41	SLM	TAL PEN
Total/NA	Prep	7471B			257977	05/22/15 09:11	JAP	TAL PEN
Total/NA	Analysis	7471B		1	258494	05/26/15 13:05	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258232	05/22/15 14:54	CMW	TAL PEN

Client Sample ID: TW-4

Date Collected: 05/20/15 10:43
Date Received: 05/20/15 15:55

Lab Sample ID: 400-105881-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259157	05/30/15 19:44	EAS	TAL PEN
Total/NA	Prep	3520C			258628	05/27/15 11:27	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259297	06/01/15 15:54	AJR	TAL PEN
Total/NA	Prep	3520C			258146	05/22/15 08:24	KH1	TAL PEN
Total/NA	Analysis	8082A		1	259032	05/29/15 19:08	MAM	TAL PEN
Total Recoverable	Prep	3005A			258171	05/22/15 11:05	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258392	05/25/15 14:37	GESP	TAL PEN
Total/NA	Prep	7470A			258013	05/22/15 09:00	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258453	05/26/15 10:25	JAP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRO

400-105881 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 11
Company: Thompson Engineering Inc				Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT			
City: Mobile	TAT Requested (days): Standard TAT			
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			
Email: mmontgomery@thompsonengineering.com	WO #:			
Project Name: Thompson Engineering	Project #: 40003023			
Site: Buffalo Properties	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tol list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
B-1 @ 3'-5'	5/20/15	0834	C	Solid	N	N	1	1	X	X	X	X	2	
TW-1	5/20/15	1340	G	~~Solid~~ Water	N	N	X		3	2	1	1	7	
B-2 3.5'-5'	5/20/15	0856	C	Solid	N	N	1	1					2	
TW-2	5/20/15	1426	G	~~Solid~~ Water	N	N	X		3	2	1	1	7	
B-3 0'-4'	5/20/15	0910	C	Solid	N	N	1	1					2	
TW-3	5/20/15	1510	G	~~Solid~~ Water	N	N	X		3	2	1	1	7	
B-4 0'-6'	5/20/15	0940	C	Solid	N	N	1	1					2	
TW-4	5/20/15	1043	G	~~Solid~~ Water	N	N	X		3	2	1	1	7	
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Melissa M. Montgomery	5/20/15 1043	Thompson Eng	Elcyn	5/20/15 1043	TEngpson
2	Elcyn	5/20/15 1555	TEngpson	Meagan Lewis	5-20-2015 1555	TEng
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.5°C 5592

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6/10/2015

J&U Properties

1.1 Project Background

The J&U properties includes an undeveloped property located at 153 Canal Street and a second property to the east located at 350 Saint Emanuel Street in Mobile, Alabama (Figures 1 and 2, Appendix A). The western property along Canal Street is currently an undeveloped grassy fenced lot that no longer has the building structure as shown on Figure 2 in Appendix A. The eastern property at the intersection of Canal Street and Saint Emanuel Street is currently a bail bond business. Both site properties are located within the proposed I-10 Mobile River bridge project limits. Surface elevations at the project sites are approximately 4 to 8 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at these sites were performed on May 21, 2015. Two soil borings (SB-1 and SB-2) were advanced on the western property and one boring (SB-3) was advanced on the eastern property via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 8 feet below ground surface (bgs) by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from each boring from the ground surface to the top of the water table at approximately 4 feet bgs. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, the boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of fine sand with clay lenses. Soil boring logs are presented in Appendix B.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, and metals for soil is included in Appendix C (Log No.: 400-105942-1). The soil analytical results indicated non-detectable concentrations of VOCs and SVOCs in all three soil samples collected. Aluminum, chromium, copper, lead, and nickel were reported in all three soil borings but at concentrations below their respective ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). Arsenic was reported above the ADEM PSVs and EPA RSLs in soil boring SB-1. Arsenic was also reported in soil boring SB-2 but at a concentration above the residential RSL and PSV. Copper and zinc were reported in soil borings SB-1 and SB-2 but at concentrations below the ADEM PSVs and EPA RSLs. Mercury was reported in soil boring SB-1 but at a concentration below the ADEM PSVs and EPA RSLs. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

1.4 Conclusions

- Detectable concentrations of aluminum, chromium, copper, lead, and nickel were reported in all three soil borings but at levels below their respective ADEM and EPA regulatory screening values. Copper and zinc were reported in two soil borings and mercury was reported in one soil boring but all reported concentrations were below their respective regulatory screening values.

- The detectable concentration arsenic of 14 mg/kg in soil boring SB-1 is above the residential and industrial/commercial ADEM and EPA regulatory screening values. The detectable concentration of 0.74 mg/kg in soil boring SB-2 is above the residential ADEM and EPA regulatory screening values. The United States Geological Survey (USGS) has reported an average concentration of aluminum for the conterminous United States as 7.2 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Groundwater was encountered during the advancement of the soil borings at a depth of approximately 4 feet below ground surface. Groundwater samples were not collected at these properties.

1.5 Recommendations

Based on review of the analytical results of the soil samples collected on May 21, 2015, arsenic in soil has detectable concentrations above ADEM and EPA industrial/commercial regulatory screening values. The detected arsenic values in soils are within the range

historically reported in Mobile County, Alabama. It is Thompson Engineering's opinion that no further investigation activities are required at this time.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
J and U Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID		
							SB-1 0'-4'	SB-2 0'-4'	SB-3 0'-4'
Volatile Organics GC/MS									
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0060	<0.0061	<0.0063
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0060	<0.0061	<0.0063
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0060	<0.0061	<0.0063
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0060	<0.0061	<0.0063
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0060	<0.0061	<0.0063
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0060	<0.0061	<0.0063
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0060	<0.0061	<0.0063
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0060	<0.0061	<0.0063
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0060	<0.0061	<0.0063
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0060	<0.0061	<0.0063
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.030	<0.031	<0.031
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<0.030	<0.031	<0.031
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0060	<0.0061	<0.0063
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0060	<0.0061	<0.0063
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0060	<0.0061	<0.0063
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0060	<0.0061	<0.0063
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0060	<0.0061	<0.0063
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0060	<0.0061	<0.0063
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0060	<0.0061	<0.0063
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0060	<0.0061	<0.0063
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0060	<0.0061	<0.0063
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0060	<0.0061	<0.0063
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0060	<0.0061	<0.0063
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0060	<0.0061	<0.0063
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0060	<0.0061	<0.0063
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0060	<0.0061	<0.0063
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0060	<0.0061	<0.0063
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.030*	<0.031*	<0.031
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.030	<0.031	<0.031
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.018	<0.018	<0.019
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0060	<0.0061	<0.0063
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0060	<0.0061	<0.0063
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0060	<0.0061	<0.0063
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0060	<0.0061	<0.0063
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0060	<0.0061	<0.0063
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0060	<0.0061	<0.0063
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0060	<0.0061	<0.0063
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0060	<0.0061	<0.0063
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0060	<0.0061	<0.0063

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
J and U Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID		
							SB-1 0'-4'	SB-2 0'-4'	SB-3 0'-4'
Semivolatile Organics									
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.400	<0.400	<0.410
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.400	<0.400	<0.410
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.400	<0.400	<0.410
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.400	<0.410
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.400	<0.400	<0.410
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.400	<0.410
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.400	<0.400	<0.410
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.400	<0.400	<0.410
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.400	<0.400	<0.410
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.400	<0.400	<0.410
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.400	<0.400	<0.410
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.400	<0.400	<0.410
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.400	<0.410
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.400	<0.400	<0.410
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.400	<0.400	<0.410
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.400	<0.400	<0.410
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.400	<0.400	<0.410
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.400	<0.400	<0.410
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.2	<1.2	<1.2
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.400	<0.400	<0.410
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.400	<0.400	<0.410
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.400	<0.400	<0.410
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.400	<0.400	<0.410
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.400	<0.400	<0.410
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.400	<0.400	<0.410
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.400	<0.400	<0.410
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.400	<0.400	<0.410
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.400	<0.400	<0.410
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.400	<0.400	<0.410
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.400	<0.400	<0.410
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.400	<0.400	<0.410
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.400	<0.400	<0.410
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.400	<0.400	<0.410
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.400	<0.400	<0.410
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.400	<0.400	<0.410
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.400	<0.400	<0.410
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.400	<0.400	<0.410
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.400	<0.400	<0.410
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.400	<0.400	<0.410
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.400	<0.400	<0.410
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.400	<0.400	<0.410
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.400	<0.400	<0.410
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.400	<0.400	<0.410
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.400	<0.400	<0.410
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.400	<0.400	<0.410
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.790	<0.810	<0.830
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.400	<0.400	<0.410
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.400	<0.400	<0.410
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.790	<0.810	<0.830
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.400	<0.400	<0.410
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.400	<0.400	<0.410
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.400	<0.400	<0.410
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.2	<1.2	<1.2
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.400	<0.400	<0.410
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.400	<0.400	<0.410
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.400	<0.400	<0.410
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.400	<0.400	<0.410
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.400	<0.400	<0.410
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.400	<0.400	<0.410
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.400	<0.400	<0.410
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.400	<0.400	<0.410
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.400	<0.400	<0.410
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.400*	<0.400*	<0.410*
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.400*	<0.400*	<0.410*
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.400*	<0.400*	<0.410*

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1c
Soil Analytical Results
Metals
J and U Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID		
							SB-1 0'-4'	SB-2 0'-4'	SB-3 0'-4'
Metals									
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	2,800	4,000	2,300
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<6.0	<5.7	<6.0
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	**14**	**0.74**	<0.60
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.36	<0.34	<0.36
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.60	<0.57	<0.60
Chromium	7440-47-3	mg/kg	None	None	30	64	14	6.2	3.0
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	24	1.4	<1.2
Lead	7439-92-1	mg/kg	400	800	400	800	82	4.4	2.0
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	0.10	<0.019	<0.020
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	2.3	1.2	0.77
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.2	<1.1	<1.2
Silver	7440-22-4	mg/kg	39	580	39	510	<0.60	<0.57	<0.60
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.2	<1.1	<1.2
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	97	4.4	<2.4

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

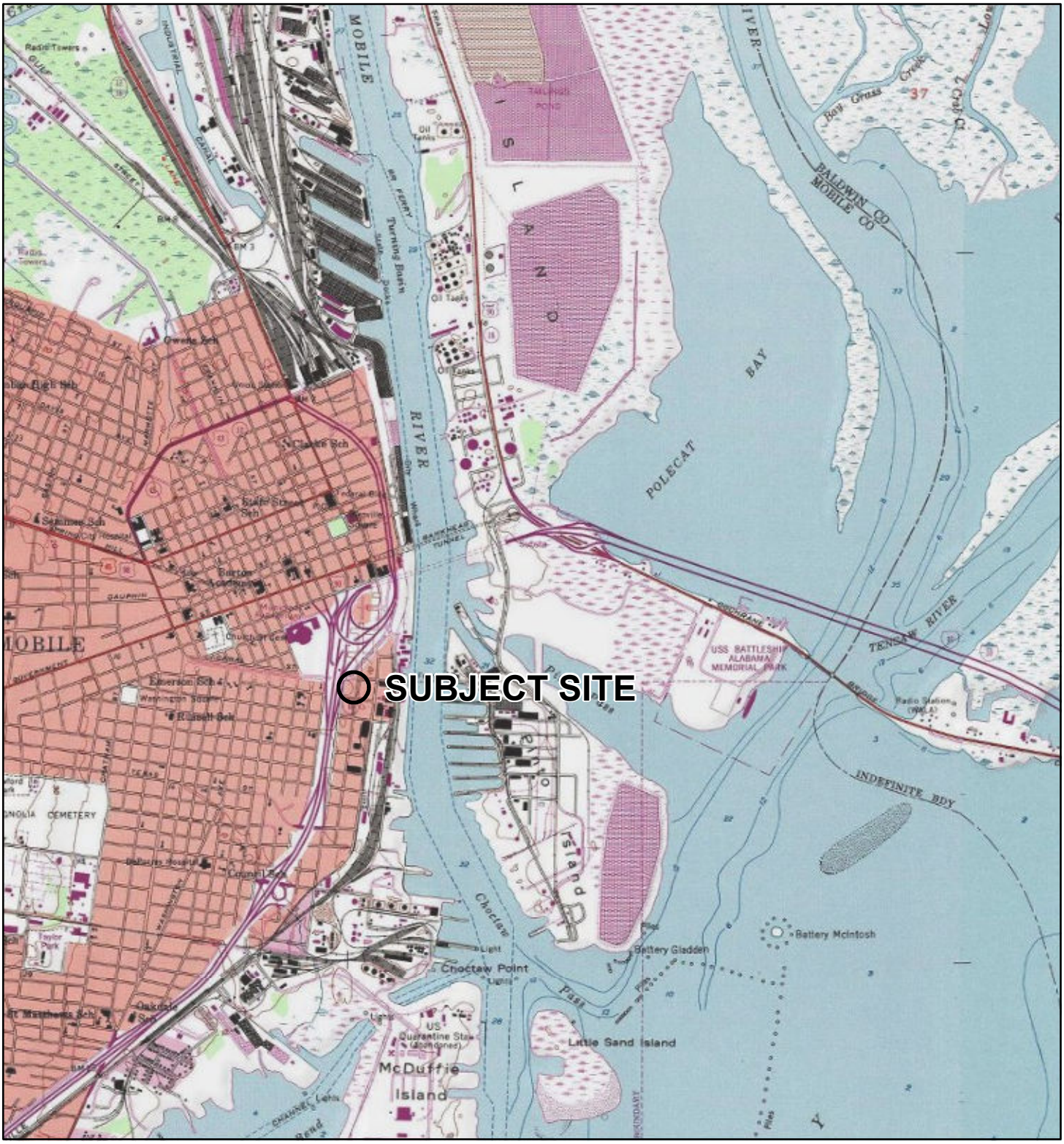
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

APPENDIX A

J&U PROPERTIES
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

- Copyright:© 2013 National Geographic Society, i-cubed

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 1
SITE VICINITY MAP
J & U PROPERTIES

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

Parcel Line*

Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 2
AERIAL PHOTOGRAPH
J & U PROPERTIES

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-101\115-1101-0043 ALDOT - Mobile River Bridge - SO\team\GIS\MXD\UU_PROP_FIG3.mxd



LEGEND

Soil Boring (SB)

Parcel Line*

Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
J & U PROPERTIES

PROJECT NO.: 15-1101-0043

DATE: JANUARY 2017

P:\2015\15-101\115-1101-0043 ALDOT - Mobile River Bridge - SO\hearn\GIS\MXD\UU_PROP_FIG3.mxd

APPENDIX B

J&U PROPERTIES
SOIL BORING LOGS

PROJECT NO.: 15-1101-0043

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 21, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-1 **LOCATION:** J & U Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Black GRAVEL
		Gray fine SAND with clay lenses
5		saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 21, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-2 **LOCATION:** J & U Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Black GRAVEL
		Gray fine SAND with clay lenses
		saturated
5		
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 21, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-3 **LOCATION:** J & U Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Gray fine SAND with clay lenses
5		saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

APPENDIX C

J&U PROPERTIES
LABORATORY ANALYTICAL DATA
WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105942-1
Client Project/Site: J & V Property

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
6/9/2015 4:59:10 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Thompson Engineering Inc
Project/Site: J & V Property

TestAmerica Job ID: 400-105942-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Thompson Engineering Inc
Project/Site: J & V Property

TestAmerica Job ID: 400-105942-1

Job ID: 400-105942-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105942-1

Comments
No additional comments.

Receipt
The samples were received on 5/21/2015 2:47 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for preparation batch 259849 recovered outside control limits for one analyte. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259419 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-258556 and analytical batch 400-259419: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and 1,2-Dichlorobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB- 1 0'-4' (400-105942-1). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259618 recovered outside acceptance criteria, low biased, for 4,6-Dinitro-2-methylphenol, 4-Nitrophenol and Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 7471A, 7471B: The matrix spike duplicate (MSD) recoveries for Prep Batch 258800 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client: Thompson Engineering Inc
Project/Site: J & V Property

TestAmerica Job ID: 400-105942-1

Client Sample ID: SB- 1 0'-4'
Date Collected: 05/21/15 10:37
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105942-1
Matrix: Solid
Percent Solids: 82.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,1,2,2-Tetrachloroethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,1,2-Trichloroethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
2-Hexanone	<30		30		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Acetone	<30		30		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Benzene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Bromoform	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Bromomethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Chloroethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Chloroform	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Chloromethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
m-Xylene & p-Xylene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
2-Butanone (MEK)	<30	*	30		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Methylene Chloride	<18		18		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
o-Xylene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Styrene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Tetrachloroethene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Toluene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Trichloroethene	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Vinyl chloride	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1
Xylenes, Total	<6.0		6.0		ug/Kg	☼	06/04/15 09:26	06/04/15 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*72 - 122*	*06/04/15 09:26*	*06/04/15 11:41*	*1*
Dibromofluoromethane	*107*		*79 - 123*	*06/04/15 09:26*	*06/04/15 11:41*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*	*06/04/15 09:26*	*06/04/15 11:41*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
1,4-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1

Client: Thompson Engineering Inc
Project/Site: J & V Property

TestAmerica Job ID: 400-105942-1

Client Sample ID: SB- 1 0'-4'
Date Collected: 05/21/15 10:37
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105942-1
Matrix: Solid
Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2-Methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
3 & 4 Methylphenol	<790		790		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Acenaphthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Acenaphthylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Carbazole	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Chrysene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Dibenzofuran	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Diethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Fluorene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Hexachloroethane	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Isophorone	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1

Client Sample ID: SB- 1 0'-4'

Lab Sample ID: 400-105942-1
Date Collected: 05/21/15 10:37
Matrix: Solid
Date Received: 05/21/15 14:47
Percent Solids: 82.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Naphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Nitrobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Pentachlorophenol	<790		790		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Phenanthrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Phenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
1,2-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1
Dinoseb	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*60*		*37 - 120*	*05/27/15 07:29*	*06/03/15 16:37*	*1*
Terphenyl-d14 (Surr)	*78*		*36 - 134*	*05/27/15 07:29*	*06/03/15 16:37*	*1*
2,4,6-Tribromophenol (Surr)	*40*		*32 - 133*	*05/27/15 07:29*	*06/03/15 16:37*	*1*
2-Fluorobiphenyl	*42*	*X*	*44 - 120*	*05/27/15 07:29*	*06/03/15 16:37*	*1*
2-Fluorophenol (Surr)	*47*		*25 - 120*	*05/27/15 07:29*	*06/03/15 16:37*	*1*
Nitrobenzene-d5 (Surr)	*41*		*27 - 120*	*05/27/15 07:29*	*06/03/15 16:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Aluminum	**2800**		12		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Arsenic	**14**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Cadmium	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Chromium	**14**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Copper	**24**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Nickel	**2.3**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Lead	**82**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Antimony	<6.0		6.0		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1
Zinc	**97**		2.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:34	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.10**		0.019		mg/Kg	☼	05/28/15 09:07	06/02/15 09:53	1

Client Sample ID: SB- 2 0'-4'

Lab Sample ID: 400-105942-2
Date Collected: 05/21/15 10:44
Matrix: Solid
Date Received: 05/21/15 14:47
Percent Solids: 80.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
1,1,2,2-Tetrachloroethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1

Client Sample ID: SB- 2 0'-4'
Date Collected: 05/21/15 10:44
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105942-2
Matrix: Solid
Percent Solids: 80.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
1,1-Dichloroethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
1,1-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
1,2-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
1,2-Dichloroethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
1,2-Dichloropropane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
1,3-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
1,4-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
2-Hexanone	<31		31		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Acetone	<31		31		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Benzene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Bromoform	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Bromomethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Carbon disulfide	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Carbon tetrachloride	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Chlorobenzene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Chlorodibromomethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Chloroethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Chloroform	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Chloromethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
cis-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
cis-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Dichlorobromomethane	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Ethylbenzene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
m-Xylene & p-Xylene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
2-Butanone (MEK)	<31	*	31		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Methylene Chloride	<18		18		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
o-Xylene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Styrene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Tetrachloroethene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Toluene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
trans-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
trans-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Trichloroethene	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Vinyl chloride	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1
Xylenes, Total	<6.1		6.1		ug/Kg	☼	06/04/15 09:26	06/04/15 12:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 122*	*06/04/15 09:26*	*06/04/15 12:07*	*1*
Dibromofluoromethane	*105*		*79 - 123*	*06/04/15 09:26*	*06/04/15 12:07*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*06/04/15 09:26*	*06/04/15 12:07*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
1,4-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1

Client: Thompson Engineering Inc
Project/Site: J & V Property

TestAmerica Job ID: 400-105942-1

Client Sample ID: SB- 2 0'-4'
Date Collected: 05/21/15 10:44
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105942-2
Matrix: Solid
Percent Solids: 80.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2-Methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
3 & 4 Methylphenol	<810		810		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Acenaphthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Acenaphthylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Carbazole	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Chrysene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Dibenzofuran	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Diethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Fluorene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Hexachloroethane	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Isophorone	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1

Client Sample ID: SB- 2 0'-4'

Lab Sample ID: 400-105942-2
Date Collected: 05/21/15 10:44
Matrix: Solid
Date Received: 05/21/15 14:47
Percent Solids: 80.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Nitrobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Pentachlorophenol	<810		810		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Phenanthrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Phenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
1,2-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1
Dinoseb	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*63*		*37 - 120*	*05/27/15 07:29*	*06/03/15 17:16*	*1*
Terphenyl-d14 (Surr)	*96*		*36 - 134*	*05/27/15 07:29*	*06/03/15 17:16*	*1*
2,4,6-Tribromophenol (Surr)	*43*		*32 - 133*	*05/27/15 07:29*	*06/03/15 17:16*	*1*
2-Fluorobiphenyl	*46*		*44 - 120*	*05/27/15 07:29*	*06/03/15 17:16*	*1*
2-Fluorophenol (Surr)	*52*		*25 - 120*	*05/27/15 07:29*	*06/03/15 17:16*	*1*
Nitrobenzene-d5 (Surr)	*47*		*27 - 120*	*05/27/15 07:29*	*06/03/15 17:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.57		0.57		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Aluminum	**4000**		11		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Arsenic	**0.74**		0.57		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Beryllium	<0.34		0.34		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Cadmium	<0.57		0.57		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Chromium	**6.2**		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Copper	**1.4**		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Nickel	**1.2**		0.57		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Lead	**4.4**		0.57		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Antimony	<5.7		5.7		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Selenium	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Thallium	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1
Zinc	**4.4**		2.3		mg/Kg	☼	05/28/15 12:39	05/30/15 13:37	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	05/28/15 09:07	06/02/15 09:55	1

Client Sample ID: SB- 3 0'-4'

Lab Sample ID: 400-105942-3
Date Collected: 05/21/15 11:02
Matrix: Solid
Date Received: 05/21/15 14:47
Percent Solids: 79.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
1,1,2,2-Tetrachloroethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
1,1,2-Trichloroethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
1,1-Dichloroethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1

Client Sample ID: SB- 3 0'-4'
Date Collected: 05/21/15 11:02
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105942-3
Matrix: Solid
Percent Solids: 79.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
1,2-Dichlorobenzene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
1,2-Dichloroethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
1,2-Dichloropropane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
1,3-Dichlorobenzene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
1,4-Dichlorobenzene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
2-Hexanone	<31		31		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Acetone	<31		31		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Benzene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Bromoform	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Bromomethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Carbon disulfide	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Carbon tetrachloride	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Chlorobenzene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Chlorodibromomethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Chloroethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Chloroform	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Chloromethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
cis-1,2-Dichloroethene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
cis-1,3-Dichloropropene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Dichlorobromomethane	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Ethylbenzene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
m-Xylene & p-Xylene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
2-Butanone (MEK)	<31	*	31		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Methylene Chloride	<19		19		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
o-Xylene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Styrene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Tetrachloroethene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Toluene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
trans-1,2-Dichloroethene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
trans-1,3-Dichloropropene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Trichloroethene	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Vinyl chloride	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1
Xylenes, Total	<6.3		6.3		ug/Kg	☼	06/04/15 09:26	06/04/15 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*06/04/15 09:26*	*06/04/15 12:34*	*1*
Dibromofluoromethane	*105*		*79 - 123*	*06/04/15 09:26*	*06/04/15 12:34*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*06/04/15 09:26*	*06/04/15 12:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
1,4-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
1-Methylnaphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2,4-Dichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2,4-Dimethylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1

Client Sample ID: SB- 3 0'-4'
Date Collected: 05/21/15 11:02
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105942-3
Matrix: Solid
Percent Solids: 79.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2-Chlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2-Methylnaphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2-Methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2-Nitroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2-Nitrophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
3 & 4 Methylphenol	<830		830		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
3,3'-Dichlorobenzidine	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
4,6-Dinitro-2-methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
4-Chloroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
4-Nitroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
4-Nitrophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Acenaphthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Acenaphthylene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Benzo[a]anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Benzo[a]pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Benzo[b]fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Benzo[g,h,i]perylene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Bis(2-ethylhexyl) phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Butyl benzyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Carbazole	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Chrysene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Di-n-butyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Di-n-octyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Dibenzofuran	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Diethyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Dimethyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Fluorene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Hexachlorobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Hexachlorobutadiene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Hexachloroethane	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Indeno[1,2,3-cd]pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Isophorone	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
N-Nitrosodimethylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Naphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Nitrobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1

Client Sample ID: SB- 3 0'-4'
Date Collected: 05/21/15 11:02
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105942-3
Matrix: Solid
Percent Solids: 79.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<830		830		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Phenanthrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Phenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
1,2,4-Trichlorobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
1,2-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1
Dinoseb	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 17:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/27/15 07:29*	*06/03/15 17:54*	*1*
Terphenyl-d14 (Surr)	*89*		*36 - 134*	*05/27/15 07:29*	*06/03/15 17:54*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*32 - 133*	*05/27/15 07:29*	*06/03/15 17:54*	*1*
2-Fluorobiphenyl	*49*		*44 - 120*	*05/27/15 07:29*	*06/03/15 17:54*	*1*
2-Fluorophenol (Surr)	*50*		*25 - 120*	*05/27/15 07:29*	*06/03/15 17:54*	*1*
Nitrobenzene-d5 (Surr)	*45*		*27 - 120*	*05/27/15 07:29*	*06/03/15 17:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Aluminum	**2300**		12		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Arsenic	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Cadmium	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Chromium	**3.0**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Copper	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Nickel	**0.77**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Lead	**2.0**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Antimony	<6.0		6.0		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1
Zinc	<2.4		2.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	05/28/15 09:07	06/02/15 09:56	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-259849/1-A
Matrix: Solid
Analysis Batch: 259776

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259849

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
2-Hexanone	<25		25		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Acetone	<25		25		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Benzene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Bromoform	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Bromomethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Chloroethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Chloroform	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Chloromethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
2-Butanone (MEK)	<25		25		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Methylene Chloride	<15		15		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
o-Xylene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Styrene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Toluene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Trichloroethene	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/04/15 09:26	06/04/15 11:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*06/04/15 09:26*	*06/04/15 11:14*	*1*
Dibromofluoromethane	*106*		*79 - 123*	*06/04/15 09:26*	*06/04/15 11:14*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*06/04/15 09:26*	*06/04/15 11:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259849/2-A
Matrix: Solid
Analysis Batch: 259776

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259849

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	47.7		ug/Kg		95	72 - 121
1,1,2,2-Tetrachloroethane	50.0	57.4		ug/Kg		115	67 - 120
1,1,2-Trichloroethane	50.0	56.4		ug/Kg		113	75 - 118
1,1-Dichloroethane	50.0	51.5		ug/Kg		103	61 - 128
1,1-Dichloroethene	50.0	48.1		ug/Kg		96	62 - 130
1,2-Dichlorobenzene	50.0	54.0		ug/Kg		108	76 - 120
1,2-Dichloroethane	50.0	55.9		ug/Kg		112	70 - 125
1,2-Dichloropropane	50.0	52.3		ug/Kg		105	64 - 129
1,3-Dichlorobenzene	50.0	51.4		ug/Kg		103	78 - 118
1,4-Dichlorobenzene	50.0	50.8		ug/Kg		102	77 - 118
2-Hexanone	200	238		ug/Kg		119	54 - 140
Acetone	200	223		ug/Kg		111	43 - 150
Benzene	50.0	49.7		ug/Kg		99	74 - 119
Bromoform	50.0	55.4		ug/Kg		111	54 - 125
Bromomethane	50.0	63.2		ug/Kg		126	25 - 150
Carbon disulfide	50.0	52.0		ug/Kg		104	26 - 150
Carbon tetrachloride	50.0	51.2		ug/Kg		102	70 - 128
Chlorobenzene	50.0	50.1		ug/Kg		100	80 - 116
Chlorodibromomethane	50.0	57.6		ug/Kg		115	65 - 131
Chloroethane	50.0	53.7		ug/Kg		107	22 - 150
Chloroform	50.0	51.9		ug/Kg		104	74 - 119
Chloromethane	50.0	48.7		ug/Kg		97	36 - 147
cis-1,2-Dichloroethene	50.0	53.1		ug/Kg		106	68 - 126
cis-1,3-Dichloropropene	50.0	57.5		ug/Kg		115	68 - 125
Dichlorobromomethane	50.0	54.7		ug/Kg		109	68 - 128
Ethylbenzene	50.0	47.7		ug/Kg		95	78 - 120
m-Xylene & p-Xylene	50.0	48.3		ug/Kg		97	70 - 120
2-Butanone (MEK)	200	280	*	ug/Kg		140	62 - 126
4-Methyl-2-pentanone (MIBK)	200	253		ug/Kg		126	56 - 137
Methylene Chloride	50.0	56.1		ug/Kg		112	45 - 150
o-Xylene	50.0	49.9		ug/Kg		100	70 - 120
Styrene	50.0	54.5		ug/Kg		109	66 - 132
Tetrachloroethene	50.0	45.3		ug/Kg		91	74 - 126
Toluene	50.0	47.6		ug/Kg		95	76 - 120
trans-1,2-Dichloroethene	50.0	49.8		ug/Kg		100	65 - 130
trans-1,3-Dichloropropene	50.0	56.7		ug/Kg		113	65 - 126
Trichloroethene	50.0	49.1		ug/Kg		98	76 - 122
Vinyl chloride	50.0	53.1		ug/Kg		106	52 - 134
Xylenes, Total	100	98.3		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 122*
Dibromofluoromethane	*105*		*79 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Chlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzidine	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Carbazole	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Chrysene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenzofuran	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Diethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dimethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluorene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobutadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Isophorone	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Naphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Nitrobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pentachlorophenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenanthrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dinoseb	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Terphenyl-d14 (Surr)	*113*		*36 - 134*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 133*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorobiphenyl	*73*		*44 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorophenol (Surr)	*31*		*25 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Nitrobenzene-d5 (Surr)	*31*		*27 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	531	*	ug/Kg		53	58 - 120
1-Methylnaphthalene	1000	861		ug/Kg		86	66 - 120
2,4,5-Trichlorophenol	1000	933		ug/Kg		93	62 - 120
2,4,6-Trichlorophenol	1000	901		ug/Kg		90	59 - 120
2,4-Dichlorophenol	1000	930		ug/Kg		93	67 - 120
2,4-Dimethylphenol	1000	895		ug/Kg		89	65 - 120
2,4-Dinitrophenol	2610	2420		ug/Kg		93	23 - 124
2-Chlorophenol	1000	816		ug/Kg		82	60 - 120
2-Nitrophenol	1000	816		ug/Kg		82	56 - 120
Acenaphthene	1000	883		ug/Kg		88	62 - 120
Acenaphthylene	1000	913		ug/Kg		91	61 - 120
Anthracene	1000	983		ug/Kg		98	68 - 120
Benzo[a]anthracene	1000	958		ug/Kg		96	67 - 120
Benzo[a]pyrene	1000	997		ug/Kg		100	64 - 120
Benzo[b]fluoranthene	1000	1030		ug/Kg		103	58 - 121
Benzo[g,h,i]perylene	1000	833		ug/Kg		83	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	849		ug/Kg		85	60 - 120
Bis(2-chloroethyl)ether	1000	650		ug/Kg		65	55 - 120
Bis(2-ethylhexyl) phthalate	1000	946		ug/Kg		95	59 - 136
Butyl benzyl phthalate	1000	979		ug/Kg		98	55 - 135
Carbazole	1000	1100		ug/Kg		110	69 - 121
Chrysene	1000	923		ug/Kg		92	65 - 120
Di-n-butyl phthalate	1000	1000		ug/Kg		100	67 - 132
Di-n-octyl phthalate	1000	791		ug/Kg		79	58 - 132
Dibenz(a,h)anthracene	1000	848		ug/Kg		85	58 - 130
Dibenzofuran	1000	921		ug/Kg		92	65 - 120
Diethyl phthalate	1000	965		ug/Kg		96	62 - 124
Dimethyl phthalate	1000	949		ug/Kg		95	52 - 123
Fluoranthene	1000	973		ug/Kg		97	67 - 123
Fluorene	1000	976		ug/Kg		98	64 - 120
Hexachlorobenzene	1000	962		ug/Kg		96	57 - 131
Hexachlorobutadiene	1000	698		ug/Kg		70	56 - 120
Hexachlorocyclopentadiene	1000	867		ug/Kg		87	1 - 153
Hexachloroethane	1000	529		ug/Kg		53	53 - 120
Indeno[1,2,3-cd]pyrene	1000	854		ug/Kg		85	55 - 133
Isophorone	1000	847		ug/Kg		85	63 - 120
N-Nitrosodi-n-propylamine	1000	858		ug/Kg		86	34 - 150
N-Nitrosodimethylamine	1000	537		ug/Kg		54	26 - 140
N-Nitrosodiphenylamine	2000	1920		ug/Kg		96	16 - 160
Naphthalene	1000	755		ug/Kg		76	59 - 120
Nitrobenzene	1000	766		ug/Kg		77	53 - 125
Pentachlorophenol	2000	1830		ug/Kg		91	30 - 136
Phenanthrene	1000	953		ug/Kg		95	62 - 130
Phenol	1000	864		ug/Kg		86	54 - 120
Pyrene	1000	1050		ug/Kg		105	57 - 127
1,2,4-Trichlorobenzene	1000	728		ug/Kg		73	62 - 120
1,2-Dichlorobenzene	1000	575	*	ug/Kg		57	58 - 120
2,4-Dinitrotoluene	1000	981		ug/Kg		98	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*37 - 120*
Terphenyl-d14 (Surr)	*107*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*106*		*32 - 133*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*25 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Aluminum	<10		10		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Arsenic	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Beryllium	<0.30		0.30		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Cadmium	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Chromium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Copper	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Nickel	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Lead	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Antimony	<5.0		5.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Selenium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Thallium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Zinc	<2.0		2.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Lab Sample ID: LCS 400-258853/2-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	49.4	51.1		mg/Kg		103	80 - 120
Aluminum	989	1010		mg/Kg		102	80 - 120
Arsenic	98.9	97.5		mg/Kg		99	80 - 120
Beryllium	49.4	50.9		mg/Kg		103	80 - 120
Cadmium	49.4	47.9		mg/Kg		97	80 - 120
Chromium	98.9	101		mg/Kg		102	80 - 120
Copper	98.9	103		mg/Kg		104	80 - 120
Nickel	98.9	96.1		mg/Kg		97	80 - 120
Lead	98.9	97.1		mg/Kg		98	80 - 120
Antimony	98.9	97.8		mg/Kg		99	80 - 120
Selenium	98.9	95.3		mg/Kg		96	80 - 120
Thallium	98.9	97.6		mg/Kg		99	80 - 120
Zinc	98.9	101		mg/Kg		102	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-258800/14-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		05/28/15 09:07	06/02/15 09:27	1

Lab Sample ID: LCS 400-258800/15-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0670	0.0714		mg/Kg		107	80 - 120

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: J & V Property

TestAmerica Job ID: 400-105942-1

Client Sample ID: SB- 1 0'-4'

Lab Sample ID: 400-105942-1
Date Collected: 05/21/15 10:37
Matrix: Solid
Date Received: 05/21/15 14:47
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259849	06/04/15 09:26		TAL PEN
Total/NA	Analysis	8260B		1	259776	06/04/15 11:41	DAN	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259618	06/03/15 16:37	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:34	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 09:53	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Client Sample ID: SB- 2 0'-4'

Lab Sample ID: 400-105942-2
Date Collected: 05/21/15 10:44
Matrix: Solid
Date Received: 05/21/15 14:47
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259849	06/04/15 09:26		TAL PEN
Total/NA	Analysis	8260B		1	259776	06/04/15 12:07	DAN	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259618	06/03/15 17:16	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:37	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 09:55	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Client Sample ID: SB- 3 0'-4'

Lab Sample ID: 400-105942-3
Date Collected: 05/21/15 11:02
Matrix: Solid
Date Received: 05/21/15 14:47
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259849	06/04/15 09:26		TAL PEN
Total/NA	Analysis	8260B		1	259776	06/04/15 12:34	DAN	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259618	06/03/15 17:54	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:41	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 09:56	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica THE LEADER IN ENVIRON

400-105942 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):
Client Contact: Ms. Melissa Montgomery	Phone: (251)665-5479	E-Mail: mike.nance@testamericainc.com	COC No: 400-45621-21847.1
Company: Thompson Engineering Inc			Page: Page 1 of 1
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT		Job #:
City: Mobile	TAT Requested (days): Standard TAT		
State, Zip: AL, 36606			
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required		
Email: mmontgomery@thompsonengineering.com	WO #:		
Project Name: Thompson Engineering	Project #: 40003023		
Site: J + V Property	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tol list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
SB-1 0'-4'	5/21/15	1037	C	Solid	N	N	1	1	X	X	X	X	2	
SB-2 0'-4'	5/21/15	1044	C	Solid	N	N	1	1	X	X	X	X	2	
SB-3 0'-4'	5/21/15	1102	C	Solid	N	N	1	1	X	X	X	X	2	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Melissa M. Montgomery	Date/Time: 5/21/2015 1447	Company: Thompson Eng	Received by:	Date/Time: 5/21/15 1447	Company: TAT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.: 400-105942		Cooler Temperature(s) °C and Other Remarks: 4.5C 5592		

GP INVESTMENTS PROPERTY

1.1 Project Background

The site is located at 354 Saint Emanuel Street in Mobile, Alabama (Figures 1 and 2, Appendix A). The property is currently has one office building that is leased for use as an attorney's office space. The site is located within the proposed I-10 Mobile River bridge project limits. Surface elevations at the project sites are approximately 4 to 8 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on May 21, 2015. One soil boring (SB-1) was advanced on the property via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The boring was advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 8 feet below ground surface (bgs) by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from the boring from the ground surface to the top of the water table at approximately 4 feet bgs. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, the borehole was backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of fine sand with clay lenses. Soil boring logs are presented in Appendix B.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, and metals for soil is included in Appendix C (Log No.: 400-105944-1). The soil analytical results indicated non-detectable concentrations of VOCs and SVOCs in the soil sample collected. Aluminum, chromium, copper, lead, nickel and zinc were reported in the soil sample collected but at concentrations below their respective ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

1.4 Conclusions

- Detectable concentrations of aluminum, chromium, copper, lead, nickel, and zinc were reported in the soil sample collected but at levels below ADEM and EPA regulatory screening values.

- Groundwater was encountered during the advancement of the soil boring at a depth of approximately 4 feet below ground surface. Groundwater samples were not collected at this site.

1.5 Recommendations

Based on review of the analytical results of the soil samples collected on May 21, 2015, it is Thompson Engineering's opinion that no further investigation activities are required at this time.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
GP Investments Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID SB-1 0'-4'
Volatile Organics GC/MS							
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0061
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0061
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0061
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0061
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0061
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0061
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0061
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0061
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0061
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0061
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.031
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	0.064
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0061
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0061
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0061
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0061
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0061
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0061
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0061
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0061
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0061
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0061
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0061
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0061
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0061
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0061
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0061
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.031
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.031
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.018
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0061
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0061
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0061
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0061
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0061
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0061
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0061
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0061
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0061

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
GP Investments Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[(1)]	EPA Industrial[(2)]	ADEM Residential[(3)]	ADEM Commercial[(4)]	Sample Location ID SB-1 0'-4'
Semivolatile Organics							
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.410
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.410
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.410
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.410
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.410
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.410
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.410
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.410
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.410
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.410
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.410
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.410
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.410
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.410
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.410
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.410
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.410
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.410
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.2
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.410
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.410
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.410
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.410
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.410
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.410
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.410
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.410
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.410
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.410
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.410
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.410
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.410
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.410
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.410
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.410
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.410
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.410
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.410
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.410
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.410
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.410
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.410
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.410
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.410
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.410
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.830
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.410
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.410
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.830
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.410
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.410
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.410
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.2
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.410
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.410
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.410
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.410
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.410
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.410
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.410
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.410
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.410
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.410*
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.410*
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.410*

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1c
Soil Analytical Results
Metals
GP Investments Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[(1)]	EPA Industrial[(2)]	ADEM Residential[(3)]	ADEM Commercial[(4)]	Sample Location ID
							SB-1 0'-4'
Metals							
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	3,600
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<5.9
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	<0.59
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.36
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.59
Chromium	7440-47-3	mg/kg	None	None	30	64	5.1
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	1.4
Lead	7439-92-1	mg/kg	400	800	400	800	2.9
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	<0.018
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	1.1
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.2
Silver	7440-22-4	mg/kg	39	580	39	510	<0.59
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.2
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	3.0

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

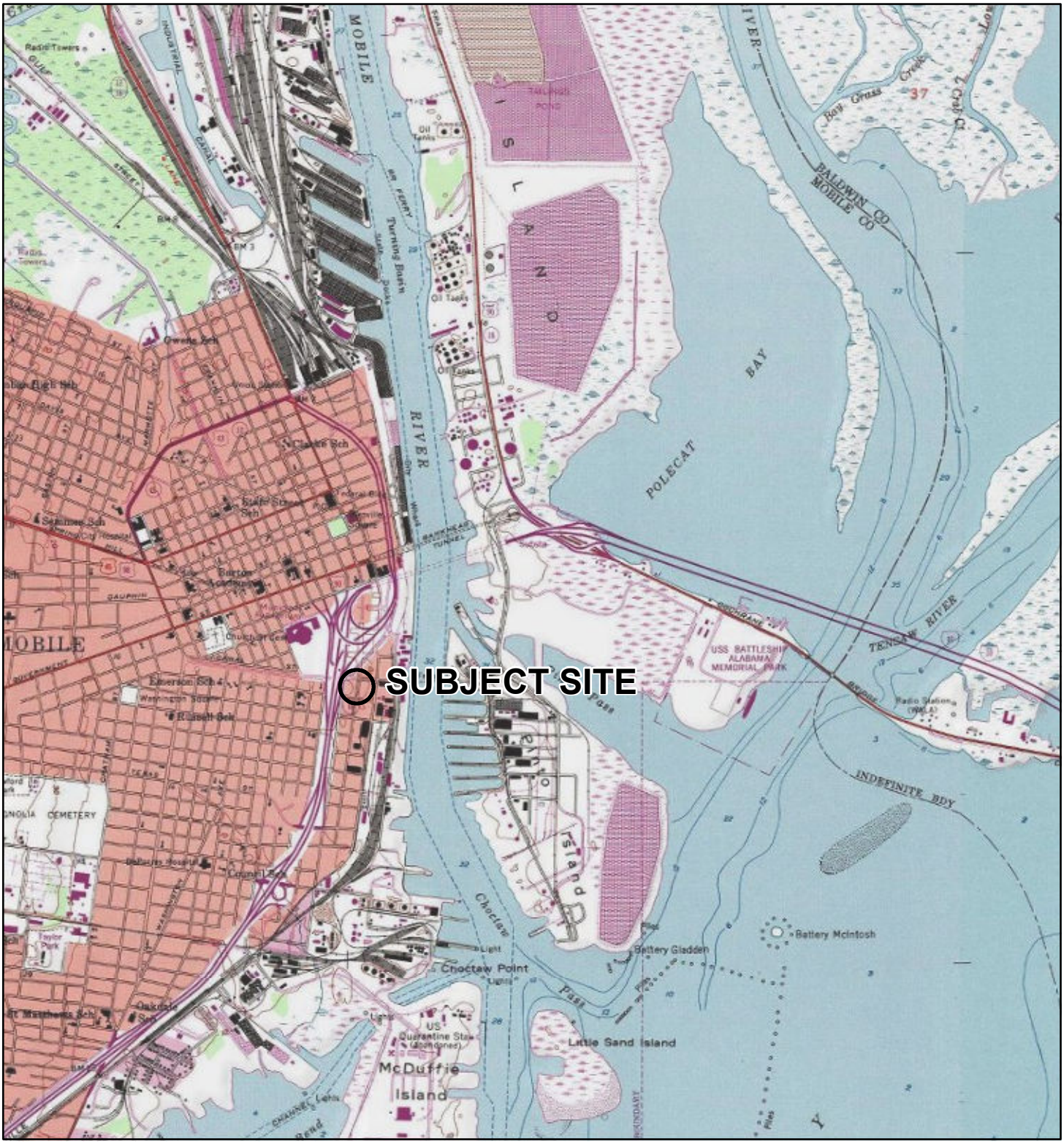
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

APPENDIX A

GP INVESTMENT PROPERTY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

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ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 1
SITE VICINITY MAP
GP INVESTMENTS PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

- Parcel Line*
- Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 2
AERIAL PHOTOGRAPH
GP INVESTMENTS PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-101\115-1101-0043 ALDOT - Mobile River Bridge - SO\learn\GIS\MXD\GP_INVESTMENTS_PROP_FIG3.mxd



LEGEND

Soil Boring (SB)

Parcel Line*

Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 3
BORING LOCATION PLAN
GP INVESTMENTS PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-101\15-1101-0043 ALDOT - Mobile River Bridge - SOhearn\GIS\MXD\GP_INVESTMENTS_PROP_FIG3.mxd

APPENDIX B

GP INVESTMENT PROPERTY
SOIL BORING LOGS

PROJECT NO.: 15-1101-0043

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 21, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-1 **LOCATION:** GP Investments Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Gray fine SAND
5		Dark gray to gray SAND with clay lenses, saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

APPENDIX C

GP INVESTMENT PROPERTY
LABORATORY ANALYTICAL DATA
WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105944-1
Client Project/Site: GP Investments

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Mr. Steve O'Hearn

Authorized for release by:
6/9/2015 5:06:05 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Thompson Engineering Inc
Project/Site: GP Investments

TestAmerica Job ID: 400-105944-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Thompson Engineering Inc
Project/Site: GP Investments

TestAmerica Job ID: 400-105944-1

Job ID: 400-105944-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105944-1

Comments
No additional comments.

Receipt
The sample was received on 5/21/2015 2:47 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259419 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-258556 and analytical batch 400-259419: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and 1,2-Dichlorobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB-1 0'-4' (400-105944-1). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259618 recovered outside acceptance criteria, low biased, for 4,6-Dinitro-2-methylphenol, 4-Nitrophenol and Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 7471A, 7471B: The matrix spike duplicate (MSD) recoveries for Prep Batch 258800 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Thompson Engineering Inc
Project/Site: GP Investments

TestAmerica Job ID: 400-105944-1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 11:15
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105944-1
Matrix: Solid
Percent Solids: 79.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,1,2,2-Tetrachloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,1,2-Trichloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,1-Dichloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,1-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,2-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,2-Dichloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,2-Dichloropropane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,3-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
1,4-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
2-Hexanone	<31		31		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Acetone	**64**		31		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Benzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Bromoform	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Bromomethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Carbon disulfide	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Carbon tetrachloride	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Chlorobenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Chlorodibromomethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Chloroethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Chloroform	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Chloromethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
cis-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
cis-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Dichlorobromomethane	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Ethylbenzene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
m-Xylene & p-Xylene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
2-Butanone (MEK)	<31		31		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
o-Xylene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Styrene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Tetrachloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Toluene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
trans-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
trans-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Trichloroethene	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Vinyl chloride	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1
Xylenes, Total	<6.1		6.1		ug/Kg	☼	06/02/15 11:57	06/02/15 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 122*	*06/02/15 11:57*	*06/02/15 17:23*	*1*
Dibromofluoromethane	*98*		*79 - 123*	*06/02/15 11:57*	*06/02/15 17:23*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*	*06/02/15 11:57*	*06/02/15 17:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
1,4-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
1-Methylnaphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1

Client: Thompson Engineering Inc
Project/Site: GP Investments

TestAmerica Job ID: 400-105944-1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 11:15
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105944-1
Matrix: Solid
Percent Solids: 79.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2,4-Dichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2,4-Dimethylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2-Chlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2-Methylnaphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2-Methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2-Nitroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2-Nitrophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
3 & 4 Methylphenol	<830		830		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
3,3'-Dichlorobenzidine	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
4,6-Dinitro-2-methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
4-Chloroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
4-Nitroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
4-Nitrophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Acenaphthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Acenaphthylene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Benzo[a]anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Benzo[a]pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Benzo[b]fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Benzo[g,h,i]perylene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Bis(2-ethylhexyl) phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Butyl benzyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Carbazole	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Chrysene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Di-n-butyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Di-n-octyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Dibenzofuran	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Diethyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Dimethyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Fluorene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Hexachlorobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Hexachlorobutadiene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Hexachloroethane	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Indeno[1,2,3-cd]pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Isophorone	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 11:15
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105944-1
Matrix: Solid
Percent Solids: 79.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Naphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Nitrobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Pentachlorophenol	<830		830		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Phenanthrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Phenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
1,2,4-Trichlorobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
1,2-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1
Dinoseb	<410		410		ug/Kg	☼	05/27/15 07:29	06/03/15 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*56*		*37 - 120*	*05/27/15 07:29*	*06/03/15 21:05*	*1*
Terphenyl-d14 (Surr)	*76*		*36 - 134*	*05/27/15 07:29*	*06/03/15 21:05*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*32 - 133*	*05/27/15 07:29*	*06/03/15 21:05*	*1*
2-Fluorobiphenyl	*41*	*X*	*44 - 120*	*05/27/15 07:29*	*06/03/15 21:05*	*1*
2-Fluorophenol (Surr)	*40*		*25 - 120*	*05/27/15 07:29*	*06/03/15 21:05*	*1*
Nitrobenzene-d5 (Surr)	*38*		*27 - 120*	*05/27/15 07:29*	*06/03/15 21:05*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.59		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Aluminum	**3600**		12		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Arsenic	<0.59		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Cadmium	<0.59		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Chromium	**5.1**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Copper	**1.4**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Nickel	**1.1**		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Lead	**2.9**		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Antimony	<5.9		5.9		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1
Zinc	**3.0**		2.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:44	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	05/28/15 09:07	06/02/15 09:57	1

Client: Thompson Engineering Inc
Project/Site: GP Investments

TestAmerica Job ID: 400-105944-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-259530/1-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Hexanone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Acetone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Benzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromoform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloromethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Butanone (MEK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Methylene Chloride	<15		15		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
o-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Styrene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Toluene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Trichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 122*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 12:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259530/2-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	72 - 121
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	67 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	75 - 118
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	61 - 128
1,1-Dichloroethene	50.0	48.7		ug/Kg		97	62 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	76 - 120
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	64 - 129
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	78 - 118
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	77 - 118
2-Hexanone	200	203		ug/Kg		102	54 - 140
Acetone	200	193		ug/Kg		96	43 - 150
Benzene	50.0	48.6		ug/Kg		97	74 - 119
Bromoform	50.0	48.2		ug/Kg		96	54 - 125
Bromomethane	50.0	55.9		ug/Kg		112	25 - 150
Carbon disulfide	50.0	44.4		ug/Kg		89	26 - 150
Carbon tetrachloride	50.0	49.8		ug/Kg		100	70 - 128
Chlorobenzene	50.0	47.9		ug/Kg		96	80 - 116
Chlorodibromomethane	50.0	50.2		ug/Kg		100	65 - 131
Chloroethane	50.0	51.2		ug/Kg		102	22 - 150
Chloroform	50.0	48.9		ug/Kg		98	74 - 119
Chloromethane	50.0	50.3		ug/Kg		101	36 - 147
cis-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	68 - 126
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 125
Dichlorobromomethane	50.0	49.2		ug/Kg		98	68 - 128
Ethylbenzene	50.0	49.3		ug/Kg		99	78 - 120
m-Xylene & p-Xylene	50.0	48.8		ug/Kg		98	70 - 120
2-Butanone (MEK)	200	205		ug/Kg		103	62 - 126
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	56 - 137
Methylene Chloride	50.0	45.4		ug/Kg		91	45 - 150
o-Xylene	50.0	49.3		ug/Kg		99	70 - 120
Styrene	50.0	49.0		ug/Kg		98	66 - 132
Tetrachloroethene	50.0	47.1		ug/Kg		94	74 - 126
Toluene	50.0	47.8		ug/Kg		96	76 - 120
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	65 - 130
trans-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	65 - 126
Trichloroethene	50.0	48.6		ug/Kg		97	76 - 122
Vinyl chloride	50.0	52.1		ug/Kg		104	52 - 134
Xylenes, Total	100	98.1		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*101*		*79 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Client: Thompson Engineering Inc
Project/Site: GP Investments

TestAmerica Job ID: 400-105944-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Chlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzidine	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Carbazole	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Chrysene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenzofuran	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Diethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dimethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluorene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobutadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Isophorone	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Naphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Nitrobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pentachlorophenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenanthrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dinoseb	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Terphenyl-d14 (Surr)	*113*		*36 - 134*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 133*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorobiphenyl	*73*		*44 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorophenol (Surr)	*31*		*25 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Nitrobenzene-d5 (Surr)	*31*		*27 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	531	*	ug/Kg		53	58 - 120
1-Methylnaphthalene	1000	861		ug/Kg		86	66 - 120
2,4,5-Trichlorophenol	1000	933		ug/Kg		93	62 - 120
2,4,6-Trichlorophenol	1000	901		ug/Kg		90	59 - 120
2,4-Dichlorophenol	1000	930		ug/Kg		93	67 - 120
2,4-Dimethylphenol	1000	895		ug/Kg		89	65 - 120
2,4-Dinitrophenol	2610	2420		ug/Kg		93	23 - 124
2-Chlorophenol	1000	816		ug/Kg		82	60 - 120
2-Nitrophenol	1000	816		ug/Kg		82	56 - 120
Acenaphthene	1000	883		ug/Kg		88	62 - 120
Acenaphthylene	1000	913		ug/Kg		91	61 - 120
Anthracene	1000	983		ug/Kg		98	68 - 120
Benzo[a]anthracene	1000	958		ug/Kg		96	67 - 120
Benzo[a]pyrene	1000	997		ug/Kg		100	64 - 120
Benzo[b]fluoranthene	1000	1030		ug/Kg		103	58 - 121
Benzo[g,h,i]perylene	1000	833		ug/Kg		83	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	849		ug/Kg		85	60 - 120
Bis(2-chloroethyl)ether	1000	650		ug/Kg		65	55 - 120
Bis(2-ethylhexyl) phthalate	1000	946		ug/Kg		95	59 - 136
Butyl benzyl phthalate	1000	979		ug/Kg		98	55 - 135
Carbazole	1000	1100		ug/Kg		110	69 - 121
Chrysene	1000	923		ug/Kg		92	65 - 120
Di-n-butyl phthalate	1000	1000		ug/Kg		100	67 - 132
Di-n-octyl phthalate	1000	791		ug/Kg		79	58 - 132
Dibenz(a,h)anthracene	1000	848		ug/Kg		85	58 - 130
Dibenzofuran	1000	921		ug/Kg		92	65 - 120
Diethyl phthalate	1000	965		ug/Kg		96	62 - 124
Dimethyl phthalate	1000	949		ug/Kg		95	52 - 123
Fluoranthene	1000	973		ug/Kg		97	67 - 123
Fluorene	1000	976		ug/Kg		98	64 - 120
Hexachlorobenzene	1000	962		ug/Kg		96	57 - 131
Hexachlorobutadiene	1000	698		ug/Kg		70	56 - 120
Hexachlorocyclopentadiene	1000	867		ug/Kg		87	1 - 153
Hexachloroethane	1000	529		ug/Kg		53	53 - 120
Indeno[1,2,3-cd]pyrene	1000	854		ug/Kg		85	55 - 133
Isophorone	1000	847		ug/Kg		85	63 - 120
N-Nitrosodi-n-propylamine	1000	858		ug/Kg		86	34 - 150
N-Nitrosodimethylamine	1000	537		ug/Kg		54	26 - 140
N-Nitrosodiphenylamine	2000	1920		ug/Kg		96	16 - 160
Naphthalene	1000	755		ug/Kg		76	59 - 120
Nitrobenzene	1000	766		ug/Kg		77	53 - 125
Pentachlorophenol	2000	1830		ug/Kg		91	30 - 136
Phenanthrene	1000	953		ug/Kg		95	62 - 130
Phenol	1000	864		ug/Kg		86	54 - 120
Pyrene	1000	1050		ug/Kg		105	57 - 127
1,2,4-Trichlorobenzene	1000	728		ug/Kg		73	62 - 120
1,2-Dichlorobenzene	1000	575	*	ug/Kg		57	58 - 120
2,4-Dinitrotoluene	1000	981		ug/Kg		98	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*37 - 120*
Terphenyl-d14 (Surr)	*107*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*106*		*32 - 133*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*25 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Aluminum	<10		10		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Arsenic	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Beryllium	<0.30		0.30		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Cadmium	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Chromium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Copper	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Nickel	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Lead	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Antimony	<5.0		5.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Selenium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Thallium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Zinc	<2.0		2.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Lab Sample ID: LCS 400-258853/2-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	49.4	51.1		mg/Kg		103	80 - 120
Aluminum	989	1010		mg/Kg		102	80 - 120
Arsenic	98.9	97.5		mg/Kg		99	80 - 120
Beryllium	49.4	50.9		mg/Kg		103	80 - 120
Cadmium	49.4	47.9		mg/Kg		97	80 - 120
Chromium	98.9	101		mg/Kg		102	80 - 120
Copper	98.9	103		mg/Kg		104	80 - 120
Nickel	98.9	96.1		mg/Kg		97	80 - 120
Lead	98.9	97.1		mg/Kg		98	80 - 120
Antimony	98.9	97.8		mg/Kg		99	80 - 120
Selenium	98.9	95.3		mg/Kg		96	80 - 120
Thallium	98.9	97.6		mg/Kg		99	80 - 120
Zinc	98.9	101		mg/Kg		102	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-258800/14-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		05/28/15 09:07	06/02/15 09:27	1

Lab Sample ID: LCS 400-258800/15-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0670	0.0714		mg/Kg		107	80 - 120

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: GP Investments

TestAmerica Job ID: 400-105944-1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 11:15
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105944-1
Matrix: Solid
Percent Solids: 79.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 17:23	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259618	06/03/15 21:05	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:44	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 09:57	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Laboratory References:
TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL

400-105944 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 1
Company: Thompson Engineering Inc				Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT			
City: Mobile	TAT Requested (days): Standard TAT			
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			
Email: mmontgomery@thompsonengineering.com	WO #:			
Project Name: Thompson Engineering	Project #: 40003023			
Site: GP Investments	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
SB-1 0'-4'	5/21/15	1115	C	Solid	N	N	1	1	X	X	X	X	3	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by: Melissa M. Montgomery	Date/Time: 5/21/2015 1447	Company: Thompson Eng.	Received by: Julia Zeigler	Date/Time: 5/21/15 1447	Company: TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 400-105944

Cooler Temperature(s) °C and Other Remarks: 4.5°C 5592

NELLENA AND STOKLEY PROPERTY

1.1 Project Background

The site is located at 351 South Conception Street in Mobile, Alabama (Figures 1 and 2, Appendix A). The property is currently a bail bond business but at one time operated as a fuel service station. While performing work, the owner reported that the USTs were no longer on site and believed them to have been removed at least 20 years ago. The fuel lines are believed to be still present. The site is located within the current proposed I-10 Mobile River bridge project limits. Surface elevations at the project site are approximately 5 to 12 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on May 21, 2015. Four borings (B-1/TW-1 and SB-1, SB-2, and SB-3) were advanced on-site via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 8 feet below ground surface (bgs) by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from each boring from the ground surface to the top of the water table at approximately 3.5 to 4 feet bgs. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, boring B-1 was advanced an additional four feet into the water table and temporary 1-inch diameter piezometer (TW-1) was installed with five feet of 1-inch diameter schedule 40 PVC with 0.010 inch slotted screen. Following temporary well installation, groundwater samples were collected with the use of a peristaltic pump after first developing and purging the well. During well development and purging,

pH, temperature, specific conductivity, dissolved oxygen, and turbidity were collected after each well volume and measurements were recorded in a bound field log book. The well was purged until the field parameters stabilized. The final well volume field measurements are included in Appendix B.

Groundwater samples were collected in appropriate laboratory supplied containers. After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the COC and the containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Groundwater samples were submitted to the laboratory to be analyzed for the following chemical analyses: VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), and metals (EPA Methods 6010B/7470A).

Upon completion of groundwater sampling procedures, the temporary well was removed from the subsurface and all soil boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of sands. Soil boring logs and temporary well construction details are presented in Appendix C.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, and metals for soil and groundwater is included in Appendix D (Log No.: 400-105954-1). The soil analytical results indicated non-detectable concentrations of SVOCs in all four soil samples collected. Acetone was detected in soil boring SB-1 but at levels below the ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). Aluminum, chromium, lead, and nickel were reported in all four soil samples collected but at concentrations below their respective PSVs and/or RSLs. Copper and zinc were reported in boring B-1 and soil borings SB-1 and SB-3 but at levels below their respective PSVs and RSLs. Arsenic was reported above the PSVs and RSLs in soil borings SB-2 and SB-3. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

The groundwater analytical results indicated non-detectable concentrations of VOCs and SVOCs in the groundwater sample collected. Arsenic, chromium, and lead were reported in the groundwater sample from TW-1 but at levels below the ADEM PSV and the EPA Maximum Contaminant Level (MCL). The groundwater analytical results compared to the ADEM PSVs and EPA RSLs or MCLs (if available) are provided in Table 2.

1.4 Conclusions

- Detectable concentrations of acetone, aluminum, chromium, copper, nickel, and zinc were reported in one or more soil samples collected but at levels below their respective ADEM and EPA regulatory screening values.

- The detectable concentration of arsenic in soil boring SB-2 at 0.93 milligrams per kilograms (mg/kg) is above the ADEM and EPA regulatory screening values for residential soil. The detectable concentration of arsenic in soil boring SB-3 at 2.1 mg/kg is above the ADEM and EPA regulatory screening values for both residential and commercial/industrial soils. The United States Geological Survey (USGS) has reported an average concentration of arsenic for the conterminous United States as 7.2 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Groundwater was encountered at 3.5 to 4 feet below ground surface. Detectable concentrations of arsenic, chromium, and lead were reported in the groundwater sample collected but at levels below their respective ADEM and EPA regulatory screening values.

1.5 Recommendations

Based on review of the analytical results of the soil samples collected on May 21, 2015, arsenic in soil has detectable concentrations above EPA and ADEM commercial/industrial regulatory screening values. The detected arsenic values in soil are within the range historically reported in Mobile County, Alabama. It is Thompson Engineering's opinion that no further investigation activities are required at this time. Since the fuel lines are thought to still be in place, the ALDOT should budget for an UST Closure Assessment in accordance with ADEM regulations and guidelines.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
Nellena and Stokley Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID			
							B-1 0'-3.5'	SB-1 0'-3.5'	SB-2 0'-3.5'	SB-3 0'-4'
Volatile Organics GC/MS										
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0057	<0.0067	<0.0059	<0.0059
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0057	<0.0067	<0.0059	<0.0059
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0057	<0.0067	<0.0059	<0.0059
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0057	<0.0067	<0.0059	<0.0059
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0057	<0.0067	<0.0059	<0.0059
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0057	<0.0067	<0.0059	<0.0059
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0057	<0.0067	<0.0059	<0.0059
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0057	<0.0067	<0.0059	<0.0059
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0057	<0.0067	<0.0059	<0.0059
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0057	<0.0067	<0.0059	<0.0059
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.029	<0.034	<0.030	<0.029
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<0.029	0.037	<0.030	<0.029
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0057	<0.0067	<0.0059	<0.0059
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0057	<0.0067	<0.0059	<0.0059
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0057	<0.0067	<0.0059	<0.0059
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0057	<0.0067	<0.0059	<0.0059
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0057	<0.0067	<0.0059	<0.0059
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0057	<0.0067	<0.0059	<0.0059
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0057	<0.0067	<0.0059	<0.0059
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0057	<0.0067	<0.0059	<0.0059
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0057	<0.0067	<0.0059	<0.0059
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0057	<0.0067	<0.0059	<0.0059
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0057	<0.0067	<0.0059	<0.0059
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0057	<0.0067	<0.0059	<0.0059
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0057	<0.0067	<0.0059	<0.0059
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0057	<0.0067	<0.0059	<0.0059
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0057	<0.0067	<0.0059	<0.0059
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.029	<0.034	<0.030	<0.029
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.029	<0.034	<0.030	<0.029
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.017	<0.020	<0.018	<0.018
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0057	<0.0067	<0.0059	<0.0059
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0057	<0.0067	<0.0059	<0.0059
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0057	<0.0067	<0.0059	<0.0059
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0057	<0.0067	<0.0059	<0.0059
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0057	<0.0067	<0.0059	<0.0059
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0057	<0.0067	<0.0059	<0.0059
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0057	<0.0067	<0.0059	<0.0059
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0057	<0.0067	<0.0059	<0.0059
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0057	<0.0067	<0.0059	<0.0059

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
Nellena and Stokley
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID			
							B-1 0'-3.5'	SB-1 0'-3.5'	SB-2 0'-3.5'	SB-3 0'-4'
Semivolatile Organics										
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.400	<0.400	<0.390	<0.410
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.400	<0.400	<0.390	<0.410
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.400	<0.400	<0.390	<0.410
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.400	<0.390	<0.410
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.400	<0.400	<0.390	<0.410
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.400	<0.390	<0.410
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.400	<0.400	<0.390	<0.410
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.400	<0.400	<0.390	<0.410
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.400	<0.400	<0.390	<0.410
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.400	<0.400	<0.390	<0.410
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.400	<0.400	<0.390	<0.410
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.400	<0.400	<0.390	<0.410
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.400	<0.390	<0.410
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.400	<0.400	<0.390	<0.410
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.400	<0.400	<0.390	<0.410
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.400	<0.400	<0.390	<0.410
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.400	<0.400	<0.390	<0.410
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.400	<0.400	<0.390	<0.410
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.2	<1.2	<1.2	<1.2
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.400	<0.400	<0.390	<0.410
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.400	<0.400	<0.390	<0.410
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.400	<0.400	<0.390	<0.410
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.400	<0.400	<0.390	<0.410
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.400	<0.400	<0.390	<0.410
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.400	<0.400	<0.390	<0.410
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.400	<0.400	<0.390	<0.410
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.400	<0.400	<0.390	<0.410
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.400	<0.400	<0.390	<0.410
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.400	<0.400	<0.390	<0.410
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.400	<0.400	<0.390	<0.410
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.400	<0.400	<0.390	<0.410
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.400	<0.400	<0.390	<0.410
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.400	<0.400	<0.390	<0.410
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.400	<0.400	<0.390	<0.410
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.400	<0.400	<0.390	<0.410
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.400	<0.400	<0.390	<0.410
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.400	<0.400	<0.390	<0.410
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.400	<0.400	<0.390	<0.410
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.400	<0.400	<0.390	<0.410
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.400	<0.400	<0.390	<0.410
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.400	<0.400	<0.390	<0.410
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.400	<0.400	<0.390	<0.410
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.400	<0.400	<0.390	<0.410
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.400	<0.400	<0.390	<0.410
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.400	<0.400	<0.390	<0.410
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.800	<0.810	<0.780	<0.820
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.400	<0.400	<0.390	<0.410
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.400	<0.400	<0.390	<0.410
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.800	<0.810	<0.780	<0.820
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.400	<0.400	<0.390	<0.410
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.400	<0.400	<0.390	<0.410
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.400	<0.400	<0.390	<0.410
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.2	<1.2	<1.2	<1.2 F2
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.400	<0.400	<0.390	<0.410
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.400	<0.400	<0.390	<0.410
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.400	<0.400	<0.390	<0.410
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.400	<0.400	<0.390	<0.410
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.400	<0.400	<0.390	<0.410
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.400	<0.400	<0.390	<0.410
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.400	<0.400	<0.390	<0.410
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.400	<0.400	<0.390	<0.410
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.400	<0.400	<0.390	<0.410
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.400*	<0.400*	<0.390*	<0.410*
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.400*	<0.400*	<0.390*	<0.410*
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.400*	<0.400*	<0.390*	<0.410*

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

F2= MS/MSD RPD exceeds control limits.

Table 1c
Soil Analytical Results
Metals
Nellena and Stokley Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID			
							B-1 0'-3.5'	SB-1 0'-3.5'	SB-2 0'-3.5'	SB-3 0'-4'
Metals										
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	3,000	6,200	2,400	6,700
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<5.8	<5.9	<5.5	<6.0
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	<0.58	<0.59	**0.93**	**2.1**
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.35	<0.36	<0.33	<0.36
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.58	<0.59	<0.55	<0.60
Chromium	7440-47-3	mg/kg	None	None	30	64	3.2	5.4	3.3	6.9
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	1.3	1.5	<1.1	2.6
Lead	7439-92-1	mg/kg	400	800	400	800	5.5	6.0	2.2	8.5
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	<0.018	<0.019	<0.019	0.032
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	1.1	2.0	0.71	2.5
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.2	<1.2	<1.1	<1.2
Silver	7440-22-4	mg/kg	39	580	39	510	<0.58	<0.59	<0.55	<0.60
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.2	<1.2	<1.1	<1.2
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	3.1	6.0	<2.2	9.6

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Bold and shaded values indicates concentration exceeds screening level.

Table 2a
Groundwater Analytical Results
Volatile Organic Compounds
Nellena and Stokley Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Volatile Organics GC/MS					
1,1,1-Trichloroethane	71-55-6	ug/L	200[3]	200	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.076	0.055	<1.0
1,1,2-Trichloroethane	79-00-5	ug/L	5[3]	5	<5.0
1,1-Dichloroethane	75-34-3	ug/L	2.8	81	<1.0
1,1-Dichloroethene	75-35-4	ug/L	7[3]	7	<1.0
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<1.0
1,2-Dichloroethane	107-06-2	ug/L	5[3]	5	<1.0
1,2-Dichloropropane	78-87-5	ug/L	5[3]	5	<1.0
1,3-Dichlorobenzene	541-73-1	ug/L	None	18	<1.0
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<1.0
2-Hexanone	591-78-6	ug/L	3.8[3]	None	<25
Acetone	67-64-1	ug/L	1400	550	<25
Benzene	71-43-2	ug/L	5[3]	5	<1.0
Bromoform	75-25-2	ug/L	80[3]	80	<5.0
Bromomethane	74-83-9	ug/L	0.75	0.87	<1.0
Carbon disulfide	75-15-0	ug/L	81	100	<1.0
Carbon tetrachloride	56-23-5	ug/L	5[3]	5	<1.0
Chlorobenzene	108-90-7	ug/L	100[3]	100	<1.0
Chlorodibromomethane	124-48-1	ug/L	80[3]	None	<1.0
Chloroethane	75-00-3	ug/L	2100	4.6	<1.0
Chloroform	67-66-3	ug/L	80[3]	80	<1.0
Chloromethane	74-87-3	ug/L	19	1.6	<1.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70[3]	70	<1.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0
Dichlorobromomethane	75-27-4	ug/L	80[3]	None	<1.0
Ethylbenzene	100-41-4	ug/L	700[3]	700	<1.0
m-Xylene & p-Xylene	1330-20-7	ug/L	10000[3]	10000	<5.0
2-Butanone (MEK)	78-93-3	ug/L	560	700	<25
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	630	200	<25
Methylene chloride	75-09-2	ug/L	5.0[3]	5	<5.0
o-Xylene	95-47-6	ug/L	19	19	<5.0
Styrene	100-42-5	ug/L	100[3]	100	<1.0
Tetrachloroethene	127-18-4	ug/L	5.0[3]	5	<1.0
Toluene	108-88-3	ug/L	100[3]	1000	<1.0
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100[3]	100	<1.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0
Trichloroethene (TCE)	79-01-6	ug/L	5.0[3]	5	<1.0
Vinyl chloride	75-01-4	ug/L	2.0[3]	2	<1.0
Xylenes (Total)	1330-20-7	ug/L	10000[3]	10000	<1.0

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.

Table 2b
Groundwater Analytical Results
Semi-Volatile Organic Compounds
Nellena and Stokley Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Semivolatile Organics					
Acenaphthene	83-32-9	ug/L	53	37	<11
Acenaphthylene	208-96-8	ug/L	None	93.9	<11
Anthracene	120-12-7	ug/L	180	180	<11
Benzidine	92-87-5	ug/L	0.0001	0.00029	<27*
Benzo(a)anthracene	56-55-3	ug/L	0.012	0.092	<11
Benzo(a)pyrene	50-32-8	ug/L	0.2[3]	0.2	<11
Benzo(b)fluoranthene	205-99-2	ug/L	0.034	0.092	<11
Benzo(g,h,i)perylene	191-24-2	ug/L	None	46.9	<11
Benzo(k)fluoranthene	207-08-9	ug/L	0.34	0.92	<11
bis(2-chloroethoxy)methane	111-91-1	ug/L	5.9	46	<11
bis(2-chloroethyl)ether	111-44-4	ug/L	0.014	None	<11
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0[3]	6.0	<11
4-Bromophenyl phenyl ether	101-55-3	ug/L	None	None	<11
Butyl benzyl phthalate	85-68-7	ug/L	16	730	<11
Carbazole	86-74-8	ug/L	None	3.4	<11
4-Chloroaniline	106-47-8	ug/L	0.37	15	<11
4-Chloro-3-methylphenol	59-50-7	ug/L	140	None	<11
2-Chlorophenol	95-57-8	ug/L	9.1	3	<11
4-Chlorophenyl phenyl ether	7005-72-3	ug/L	None	None	<11
Chrysene	218-01-9	ug/L	3.4	9.2	<11
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0034	0.0092	<11
Dibenzofuran	132-64-9	ug/L	0.79	1.2	<11
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.13	0.15	<11
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<11
1,3-Dichlorobenzene	541-73-1	ug/L	None	None	<11
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<11
2,4-Dichlorophenol	120-83-2	ug/L	4.6	11	<11
Diethyl phthalate	84-66-2	ug/L	1500	2900	<11
2,4-Dimethylphenol	105-67-9	ug/L	36	73	<11
Dimthyl phthalate	131-11-3	ug/L	None	36000	<11
Di-n-butyl phthalate	84-74-2	ug/L	90	360	<11
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	0.15	None	<11
2,4-Dinitrophenol	51-28-5	ug/L	3.9	7.3	<32
2,4-Dinitrotoluene	121-14-2	ug/L	0.24	7.3	<11
2,6-Dinitrotoluene	606-20-2	ug/L	0.049	3.6	<11
Di-n-octyl phthalate	117-84-0	ug/L	20	150	<11
Dinoseb[2]	88-85-7	ug/L	7.0[3]	None	<11
Fluoranthene	206-44-0	ug/L	80	150	<11
Fluorene	86-73-7	ug/L	29	24	<11
Hexachlorobenzene	118-74-1	ug/L	1.0[3]	1	<11
Hexachlorobutadiene	87-68-3	ug/L	0.14	0.86	<11
Hexachlorocyclopentadiene	77-47-4	ug/L	50[3]	50	<21
Hexachloroethane	67-72-1	ug/L	0.33	4.8	<11
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.034	0.092	<11
Isophorone	78-59-1	ug/L	78	71	<11
1-Methylnaphthalene	90-12-0	ug/L	1.1[3]	None	<11
2-Methylnaphthalene	91-57-6	ug/L	3.6	6.26	<11
2-Methylphenol	95-48-7	ug/L	93	180	<11
3 & 4 Methylphenol	106-44-5	ug/L	190	18	<11
Naphthalene	91-20-3	ug/L	0.17	0.62	<11
2-Nitroaniline	88-74-4	ug/L	19	11	<11
4-Nitroaniline	100-01-6	ug/L	3.8	None	<11
Nitrobenzene	98-95-3	ug/L	0.14	0.34	<11
2-Nitrophenol	88-75-5	ug/L	None	None	<11
4-Nitrophenol	100-02-7	ug/L	None	12.5	<11*
N-Nitrosodimethylamine	62-75-9	ug/L	0.00011	0.0013	<11
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.011	0.0096	<11
N-Nitrosodiphenylamine	86-30-6	ug/L	12	14	<11
Pentachlorophenol	87-86-5	ug/L	1.0[3]	1.0	<21
Phenanthrene	85-01-8	ug/L	None	46.9	<11
Phenol	108-95-2	ug/L	580	1100	<11
Pyrene	129-00-0	ug/L	12	18	<11
1,2,4-Trichlorobenzene	120-82-1	ug/L	7.0[3]	70.0	<11
2,4,5-Trichlorophenol	95-95-4	ug/L	120	360	<11
2,4,6-Trichlorophenol	88-06-2	ug/L	1.2	0.36	<11

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.
* = RPD of the LCS and LCSD exceeds the control limits.

Table 2c
Groundwater Analytical Results
Metals
Nellena and Stokley Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Metals					
Antimony	7440-36-0	mg/L	0.006[3]	0.006	<0.050
Arsenic	7440-38-2	mg/L	0.01[3]	0.01	0.0094
Beryllium	7440-41-7	mg/L	0.004[3]	0.004	<0.0030
Cadmium	7440-43-9	mg/L	0.005[3]	0.005	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.1[3]	0.10	0.02
Copper	7440-50-8	mg/L	1.3[3]	1.30	<0.010
Lead	7439-92-1	mg/L	0.015[3]	0.015	0.008
Mercury	7487-94-7	mg/L	0.002[3]	0.002	<0.20
Nickel	7440-02-0	mg/L	0.039	0.1	<0.0050
Selenium	7782-49-2	mg/L	0.005[3]	0.005	<0.010
Silver	7440-22-4	mg/L	0.0094	0.0018	<0.0050
Thallium	7440-28-0	mg/L	0.002[3]	0.002	<0.010
Zinc	7440-66-6	mg/L	0.6	1.1	<0.020

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.

(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.

(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.

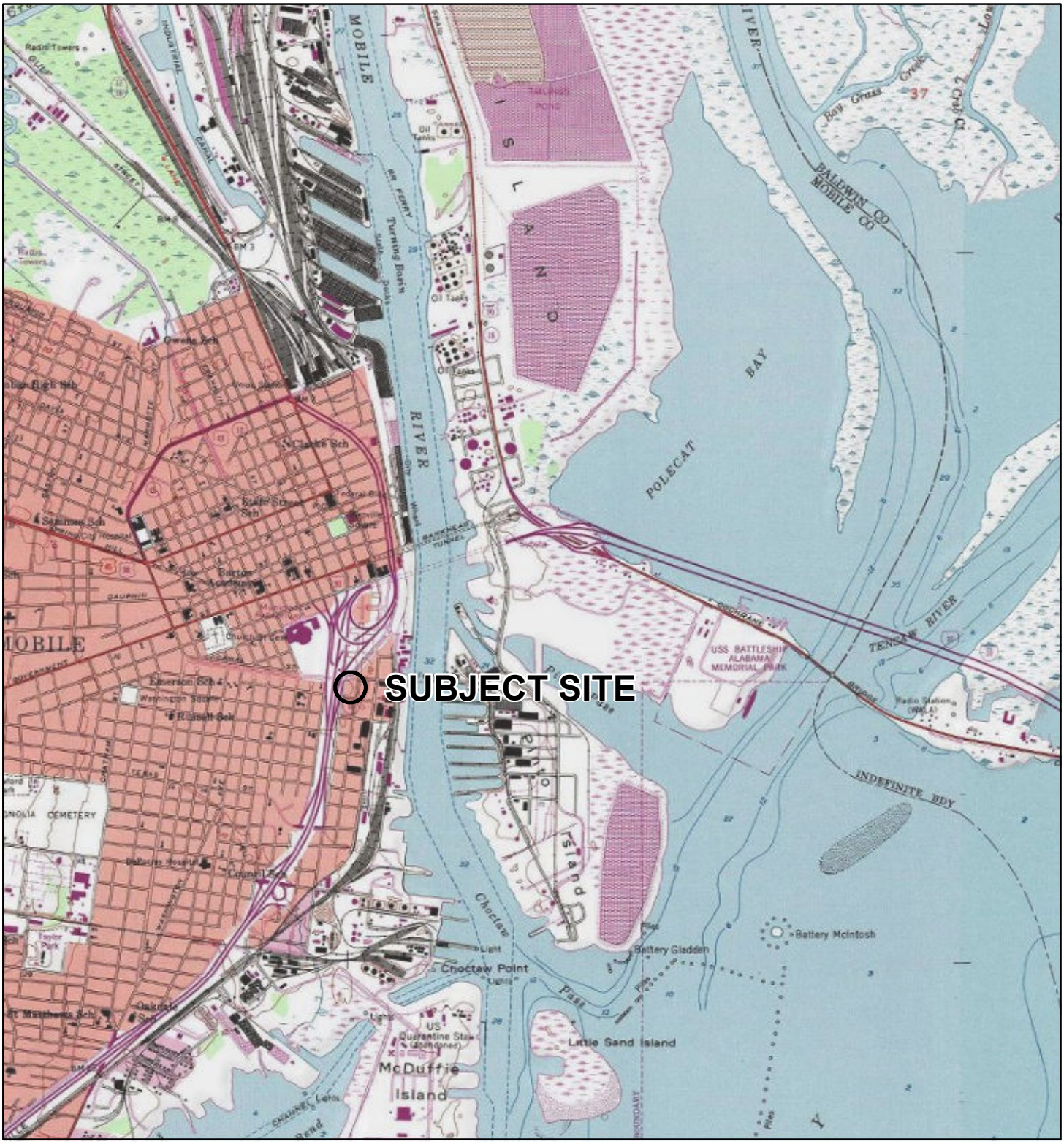
mg/L indicates milligrams per liter.

Bold and shaded values indicates concentration exceeds screening level.

APPENDIX A

NELLENA AND STOKLEY PROPERTY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

- Copyright:© 2013 National Geographic Society, i-cubed

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 1
SITE VICINITY MAP
NELLENA & STOKLEY PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

Parcel Line*

Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 2
AERIAL PHOTOGRAPH
NELLENA & STOKLEY PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-101\15-1101-0043 ALDOT - Mobile River Bridge - SO\hearn\GIS\MXD\NELLENA_STOKLEY_FIG3.mxd



LEGEND

- Soil Boring (SB)
- Boring /Temporary Well (B/TW)
- Parcel Line*
- Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
NELLENA & STOKLEY PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-1101-0043 ALDOT - Mobile River Bridge - SO\team\GIS\MXD\NELLENA_STOKLEY_FIG3.mxd

APPENDIX B

NELLENA AND STOKLEY PROPERTY GROUNDWATER FIELD PARAMETER DATA

PROJECT NO.: 15-1101-0043

Groundwater Field Parameter Data

Nellena and Stokley Property
Preliminary Investigation
15-1101-0043

Well I.D.	Total Depth (feet)	Depth to Water Level (feet)	Well Volume (gallon)	Volume Evacuated (gallon)	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	8.2	2.03	0.25	1	5.7	31.7	0.224	2.8	66.3

Notes:
1. Measurements presented are the final well volume.
2. Total depth and depth to water level are measured from top of well casing.
3. S.U. - Standard Units
4. oC - Degrees Celcius
5. uS - micro Siemens per Centimeter
6. mg/L-milligrams per liter
7. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

APPENDIX C

NELLENA AND STOKLEY PROPERTY
SOIL BORING LOGS AND
TEMPORARY WELL CONSTRUCTION DETAILS

PROJECT NO.: 15-1101-0043

APPENDIX D

NELLENA AND STOKLEY PROPERTY LABORATORY ANALYTICAL DATA WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105954-1
Client Project/Site: Nellena and Stokley Property

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Mr. Steve O'Hearn

Authorized for release by:
6/9/2015 5:32:26 PM

Mike Nance, Service Center Manager
(251)666-6633
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LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits
*	RPD of the LCS and LCSD exceeds the control limits
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Thompson Engineering Inc
Project/Site: Nellena and Stokley Property

TestAmerica Job ID: 400-105954-1

Job ID: 400-105954-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105954-1

Comments
No additional comments.

Receipt
The samples were received on 5/21/2015 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.6º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 258628 recovered outside control limits for the flagged analytes.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate compounds outside limits: SB-1 0'-3.5' (400-105954-1), B-1 0'-3.5' (400-105954-2) and SB-2 0'-3.5' (400-105954-4). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259419 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-258556 and analytical batch 400-259419: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and 1,2-Dichlorobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB-1 0'-3.5'
Date Collected: 05/21/15 09:30
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-1
Matrix: Solid
Percent Solids: 81.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,1,2,2-Tetrachloroethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,1,2-Trichloroethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,1-Dichloroethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,1-Dichloroethene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,2-Dichlorobenzene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,2-Dichloroethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,2-Dichloropropane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,3-Dichlorobenzene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
1,4-Dichlorobenzene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
2-Hexanone	<34		34		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Acetone	**37**		34		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Benzene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Bromoform	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Bromomethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Carbon disulfide	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Carbon tetrachloride	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Chlorobenzene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Chlorodibromomethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Chloroethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Chloroform	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Chloromethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
cis-1,2-Dichloroethene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
cis-1,3-Dichloropropene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Dichlorobromomethane	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Ethylbenzene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
m-Xylene & p-Xylene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
2-Butanone (MEK)	<34		34		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
4-Methyl-2-pentanone (MIBK)	<34		34		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Methylene Chloride	<20		20		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
o-Xylene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Styrene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Tetrachloroethene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Toluene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
trans-1,2-Dichloroethene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
trans-1,3-Dichloropropene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Trichloroethene	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Vinyl chloride	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1
Xylenes, Total	<6.7		6.7		ug/Kg	☼	06/02/15 11:57	06/02/15 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*72 - 122*	*06/02/15 11:57*	*06/02/15 17:48*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 17:48*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/02/15 11:57*	*06/02/15 17:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
1,4-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1

Client: Thompson Engineering Inc
Project/Site: Nellena and Stokley Property

TestAmerica Job ID: 400-105954-1

Client Sample ID: SB-1 0'-3.5'
Date Collected: 05/21/15 09:30
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-1
Matrix: Solid
Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2-Methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
3 & 4 Methylphenol	<810		810		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Acenaphthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Acenaphthylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Carbazole	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Chrysene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Dibenzofuran	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Diethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Fluorene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Hexachloroethane	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Isophorone	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1

Client Sample ID: SB-1 0'-3.5'

Date Collected: 05/21/15 09:30
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-1

Matrix: Solid
Percent Solids: 81.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Naphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Nitrobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Pentachlorophenol	<810		810		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Phenanthrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Phenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
1,2-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1
Dinoseb	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*63*		*37 - 120*	*05/27/15 07:29*	*06/02/15 21:53*	*1*
Terphenyl-d14 (Surr)	*87*		*36 - 134*	*05/27/15 07:29*	*06/02/15 21:53*	*1*
2,4,6-Tribromophenol (Surr)	*52*		*32 - 133*	*05/27/15 07:29*	*06/02/15 21:53*	*1*
2-Fluorobiphenyl	*43*	*X*	*44 - 120*	*05/27/15 07:29*	*06/02/15 21:53*	*1*
2-Fluorophenol (Surr)	*50*		*25 - 120*	*05/27/15 07:29*	*06/02/15 21:53*	*1*
Nitrobenzene-d5 (Surr)	*47*		*27 - 120*	*05/27/15 07:29*	*06/02/15 21:53*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.59		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Aluminum	**6200**		12		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Arsenic	<0.59		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Cadmium	<0.59		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Chromium	**5.4**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Copper	**1.5**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Nickel	**2.0**		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Lead	**6.0**		0.59		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Antimony	<5.9		5.9		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1
Zinc	**6.0**		2.4		mg/Kg	☼	05/28/15 12:39	05/30/15 14:18	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	05/28/15 09:07	06/02/15 10:04	1

Client Sample ID: B-1 0'-3.5'

Date Collected: 05/21/15 09:42
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-2

Matrix: Solid
Percent Solids: 81.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
1,1,2,2-Tetrachloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1

Client Sample ID: B-1 0'-3.5'
Date Collected: 05/21/15 09:42
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-2
Matrix: Solid
Percent Solids: 81.8

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
1,1-Dichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
1,1-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
1,2-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
1,2-Dichloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
1,2-Dichloropropane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
1,3-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
1,4-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
2-Hexanone	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Acetone	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Benzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Bromoform	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Bromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Carbon disulfide	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Carbon tetrachloride	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Chlorobenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Chlorodibromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Chloroethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Chloroform	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Chloromethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
cis-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
cis-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Dichlorobromomethane	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Ethylbenzene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
m-Xylene & p-Xylene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
2-Butanone (MEK)	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Methylene Chloride	<17		17		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
o-Xylene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Styrene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Tetrachloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Toluene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
trans-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
trans-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Trichloroethene	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Vinyl chloride	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1
Xylenes, Total	<5.7		5.7		ug/Kg	☼	06/02/15 11:57	06/02/15 18:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 122*	*06/02/15 11:57*	*06/02/15 18:12*	*1*
Dibromofluoromethane	*98*		*79 - 123*	*06/02/15 11:57*	*06/02/15 18:12*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 18:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
1,4-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1

Client Sample ID: B-1 0'-3.5'
Date Collected: 05/21/15 09:42
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-2
Matrix: Solid
Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2-Methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
3 & 4 Methylphenol	<800		800		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Acenaphthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Acenaphthylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Carbazole	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Chrysene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Dibenzofuran	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Diethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Fluorene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Hexachloroethane	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Isophorone	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1

Client Sample ID: B-1 0'-3.5'

Date Collected: 05/21/15 09:42
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-2

Matrix: Solid
Percent Solids: 81.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Nitrobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Pentachlorophenol	<800		800		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Phenanthrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Phenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
1,2-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1
Dinoseb	<400		400		ug/Kg	☼	05/27/15 07:29	06/02/15 22:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*62*		*37 - 120*	*05/27/15 07:29*	*06/02/15 22:31*	*1*
Terphenyl-d14 (Surr)	*91*		*36 - 134*	*05/27/15 07:29*	*06/02/15 22:31*	*1*
2,4,6-Tribromophenol (Surr)	*55*		*32 - 133*	*05/27/15 07:29*	*06/02/15 22:31*	*1*
2-Fluorobiphenyl	*43*	*X*	*44 - 120*	*05/27/15 07:29*	*06/02/15 22:31*	*1*
2-Fluorophenol (Surr)	*46*		*25 - 120*	*05/27/15 07:29*	*06/02/15 22:31*	*1*
Nitrobenzene-d5 (Surr)	*40*		*27 - 120*	*05/27/15 07:29*	*06/02/15 22:31*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.58		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Aluminum	**3000**		12		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Arsenic	<0.58		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Beryllium	<0.35		0.35		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Cadmium	<0.58		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Chromium	**3.2**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Copper	**1.3**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Nickel	**1.1**		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Lead	**5.5**		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Antimony	<5.8		5.8		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1
Zinc	**3.1**		2.3		mg/Kg	☼	05/28/15 12:39	05/30/15 13:58	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	05/28/15 09:07	06/02/15 10:05	1

Client Sample ID: TW-1

Date Collected: 05/21/15 11:30
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 12:11	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 12:11	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 12:11	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 12:11	1

Client Sample ID: TW-1
Date Collected: 05/21/15 11:30
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 12:11	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 12:11	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 12:11	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 12:11	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 12:11	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 12:11	1
2-Hexanone	<25		25		ug/L			05/30/15 12:11	1
Acetone	<25		25		ug/L			05/30/15 12:11	1
Benzene	<1.0		1.0		ug/L			05/30/15 12:11	1
Bromoform	<5.0		5.0		ug/L			05/30/15 12:11	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 12:11	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 12:11	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 12:11	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 12:11	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 12:11	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 12:11	1
Chloroform	<1.0		1.0		ug/L			05/30/15 12:11	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 12:11	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 12:11	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 12:11	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 12:11	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 12:11	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 12:11	1
2-Butanone (MEK)	<25		25		ug/L			05/30/15 12:11	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 12:11	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 12:11	1
o-Xylene	<5.0		5.0		ug/L			05/30/15 12:11	1
Styrene	<1.0		1.0		ug/L			05/30/15 12:11	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 12:11	1
Toluene	<1.0		1.0		ug/L			05/30/15 12:11	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 12:11	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 12:11	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 12:11	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 12:11	1
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*78 - 118*		*05/30/15 12:11*	*1*
Dibromofluoromethane	*105*		*81 - 121*		*05/30/15 12:11*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*05/30/15 12:11*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
1,4-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
1-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2,4-Dichlorophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2,4-Dimethylphenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1

Client Sample ID: TW-1
Date Collected: 05/21/15 11:30
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrophenol	<32		32		ug/L		05/27/15 11:27	06/02/15 18:43	1
2-Chlorophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2-Methylphenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2-Nitrophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
3 & 4 Methylphenol	<21		21		ug/L		05/27/15 11:27	06/02/15 18:43	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
4-Bromophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
4-Chloroaniline	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
4-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
4-Nitrophenol	<11	*	11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Acenaphthene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Acenaphthylene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Anthracene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Benzidine	<27	*	27		ug/L		05/27/15 11:27	06/02/15 18:43	1
Benzo[a]anthracene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Benzo[a]pyrene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Benzo[b]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Benzo[k]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Butyl benzyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Carbazole	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Chrysene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Di-n-butyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Di-n-octyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Dibenzofuran	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Diethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Dimethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Fluoranthene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Fluorene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Hexachlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Hexachlorobutadiene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Hexachlorocyclopentadiene	<21		21		ug/L		05/27/15 11:27	06/02/15 18:43	1
Hexachloroethane	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Isophorone	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
N-Nitrosodimethylamine	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Naphthalene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Nitrobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1

Client Sample ID: TW-1

Lab Sample ID: 400-105954-3

Date Collected: 05/21/15 11:30

Matrix: Water

Date Received: 05/21/15 15:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<21		21		ug/L		05/27/15 11:27	06/02/15 18:43	1
Phenanthrene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Phenol	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Pyrene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
1,2,4-Trichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
1,2-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2,4-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
2,6-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1
Dinoseb	<11		11		ug/L		05/27/15 11:27	06/02/15 18:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*60*		*10 - 120*	*05/27/15 11:27*	*06/02/15 18:43*	*1*
Terphenyl-d14 (Surr)	*77*		*53 - 125*	*05/27/15 11:27*	*06/02/15 18:43*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*15 - 135*	*05/27/15 11:27*	*06/02/15 18:43*	*1*
2-Fluorobiphenyl	*74*		*34 - 120*	*05/27/15 11:27*	*06/02/15 18:43*	*1*
2-Fluorophenol (Surr)	*50*		*10 - 120*	*05/27/15 11:27*	*06/02/15 18:43*	*1*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*	*05/27/15 11:27*	*06/02/15 18:43*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/23/15 10:35	05/26/15 16:09	1
Arsenic	**0.0094**		0.0050		mg/L		05/23/15 10:35	05/26/15 16:09	1
Beryllium	<0.0030		0.0030		mg/L		05/23/15 10:35	05/26/15 16:09	1
Cadmium	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:09	1
Chromium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:09	1
Copper	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:09	1
Lead	**0.0080**		0.0050		mg/L		05/23/15 10:35	05/26/15 16:09	1
Nickel	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:09	1
Selenium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:09	1
Silver	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:09	1
Thallium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:09	1
Zinc	<0.020		0.020		mg/L		05/23/15 10:35	05/26/15 16:09	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/26/15 15:21	05/28/15 13:29	1

Client Sample ID: SB-2 0'-3.5'

Lab Sample ID: 400-105954-4

Date Collected: 05/21/15 09:58

Matrix: Solid

Date Received: 05/21/15 15:40

Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
1,1,2,2-Tetrachloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
1,1,2-Trichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
1,1-Dichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
1,1-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
1,2-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
1,2-Dichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1

Client: Thompson Engineering Inc
Project/Site: Nellena and Stokley Property

TestAmerica Job ID: 400-105954-1

Client Sample ID: SB-2 0'-3.5'
Date Collected: 05/21/15 09:58
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-4
Matrix: Solid
Percent Solids: 84.7

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
1,3-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
1,4-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
2-Hexanone	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Acetone	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Benzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Bromoform	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Bromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Carbon disulfide	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Carbon tetrachloride	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Chlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Chlorodibromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Chloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Chloroform	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Chloromethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
cis-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
cis-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Dichlorobromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Ethylbenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
m-Xylene & p-Xylene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
2-Butanone (MEK)	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
o-Xylene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Styrene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Tetrachloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Toluene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
trans-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
trans-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Trichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Vinyl chloride	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1
Xylenes, Total	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 18:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 122*	*06/02/15 11:57*	*06/02/15 18:37*	*1*
Dibromofluoromethane	*97*		*79 - 123*	*06/02/15 11:57*	*06/02/15 18:37*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 18:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
1,4-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
1-Methylnaphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2,4,5-Trichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2,4,6-Trichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2,4-Dichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2,4-Dimethylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2-Chlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2-Methylnaphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1

Client: Thompson Engineering Inc
Project/Site: Nellena and Stokley Property

TestAmerica Job ID: 400-105954-1

Client Sample ID: SB-2 0'-3.5'
Date Collected: 05/21/15 09:58
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-4
Matrix: Solid
Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2-Nitroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2-Nitrophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
3 & 4 Methylphenol	<780		780		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
3,3'-Dichlorobenzidine	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
4,6-Dinitro-2-methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
4-Bromophenyl phenyl ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
4-Chloro-3-methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
4-Chloroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
4-Chlorophenyl phenyl ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
4-Nitroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
4-Nitrophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Acenaphthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Acenaphthylene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Benzo[a]anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Benzo[a]pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Benzo[b]fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Benzo[g,h,i]perylene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Benzo[k]fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Bis(2-chloroethoxy)methane	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Bis(2-chloroethyl)ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Bis(2-ethylhexyl) phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Butyl benzyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Carbazole	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Chrysene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Di-n-butyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Di-n-octyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Dibenz(a,h)anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Dibenzofuran	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Diethyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Dimethyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Fluorene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Hexachlorobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Hexachlorobutadiene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Hexachlorocyclopentadiene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Hexachloroethane	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Indeno[1,2,3-cd]pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Isophorone	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
N-Nitrosodi-n-propylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
N-Nitrosodimethylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
N-Nitrosodiphenylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Naphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Nitrobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Pentachlorophenol	<780		780		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Phenanthrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Phenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1

Client Sample ID: SB-2 0'-3.5'

Date Collected: 05/21/15 09:58
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-4

Matrix: Solid
Percent Solids: 84.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
1,2,4-Trichlorobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
1,2-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2,4-Dinitrotoluene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
2,6-Dinitrotoluene	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1
Dinoseb	<390		390		ug/Kg	☼	05/27/15 07:29	06/02/15 23:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*65*		*37 - 120*	*05/27/15 07:29*	*06/02/15 23:09*	*1*
Terphenyl-d14 (Surr)	*95*		*36 - 134*	*05/27/15 07:29*	*06/02/15 23:09*	*1*
2,4,6-Tribromophenol (Surr)	*51*		*32 - 133*	*05/27/15 07:29*	*06/02/15 23:09*	*1*
2-Fluorobiphenyl	*43*	*X*	*44 - 120*	*05/27/15 07:29*	*06/02/15 23:09*	*1*
2-Fluorophenol (Surr)	*49*		*25 - 120*	*05/27/15 07:29*	*06/02/15 23:09*	*1*
Nitrobenzene-d5 (Surr)	*42*		*27 - 120*	*05/27/15 07:29*	*06/02/15 23:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.55		0.55		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Aluminum	**2400**		11		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Arsenic	**0.93**		0.55		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Beryllium	<0.33		0.33		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Cadmium	<0.55		0.55		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Chromium	**3.3**		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Copper	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Nickel	**0.71**		0.55		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Lead	**2.2**		0.55		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Antimony	<5.5		5.5		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Selenium	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Thallium	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1
Zinc	<2.2		2.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.019		0.019		mg/Kg	☼	05/28/15 09:07	06/02/15 10:25	1

Client Sample ID: SB-3 0'-4'

Date Collected: 05/21/15 10:05
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-5

Matrix: Solid
Percent Solids: 79.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
1,1,2,2-Tetrachloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
1,1,2-Trichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
1,1-Dichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
1,1-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
1,2-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
1,2-Dichloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
1,2-Dichloropropane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
1,3-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1

Client: Thompson Engineering Inc
Project/Site: Nellena and Stokley Property

TestAmerica Job ID: 400-105954-1

Client Sample ID: SB-3 0'-4'
Date Collected: 05/21/15 10:05
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-5
Matrix: Solid
Percent Solids: 79.4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
2-Hexanone	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Acetone	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Benzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Bromoform	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Bromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Carbon disulfide	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Carbon tetrachloride	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Chlorobenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Chlorodibromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Chloroethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Chloroform	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Chloromethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
cis-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
cis-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Dichlorobromomethane	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Ethylbenzene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
m-Xylene & p-Xylene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
2-Butanone (MEK)	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Methylene Chloride	<18		18		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
o-Xylene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Styrene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Tetrachloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Toluene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
trans-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
trans-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Trichloroethene	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Vinyl chloride	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1
Xylenes, Total	<5.9		5.9		ug/Kg	☼	06/02/15 11:57	06/02/15 19:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 122*	*06/02/15 11:57*	*06/02/15 19:01*	*1*
Dibromofluoromethane	*101*		*79 - 123*	*06/02/15 11:57*	*06/02/15 19:01*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/02/15 11:57*	*06/02/15 19:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
1,4-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
1-Methylnaphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2,4-Dichlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2,4-Dimethylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2-Chlorophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2-Methylnaphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2-Methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2-Nitroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1

Client Sample ID: SB-3 0'-4'
Date Collected: 05/21/15 10:05
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-5
Matrix: Solid
Percent Solids: 79.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
3 & 4 Methylphenol	<820		820		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
3,3'-Dichlorobenzidine	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
4,6-Dinitro-2-methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
4-Chloroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
4-Nitroaniline	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
4-Nitrophenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Acenaphthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Acenaphthylene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Benzidine	<1200	F2	1200		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Benzo[a]anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Benzo[a]pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Benzo[b]fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Benzo[g,h,i]perylene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Bis(2-ethylhexyl) phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Butyl benzyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Carbazole	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Chrysene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Di-n-butyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Di-n-octyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Dibenzofuran	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Diethyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Dimethyl phthalate	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Fluoranthene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Fluorene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Hexachlorobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Hexachlorobutadiene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Hexachloroethane	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Indeno[1,2,3-cd]pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Isophorone	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
N-Nitrosodimethylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Naphthalene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Nitrobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Pentachlorophenol	<820		820		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Phenanthrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Phenol	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Pyrene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
1,2,4-Trichlorobenzene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1

Client Sample ID: SB-3 0'-4'
Date Collected: 05/21/15 10:05
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105954-5
Matrix: Solid
Percent Solids: 79.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<410	*	410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1
Dinoseb	<410		410		ug/Kg	☼	05/27/15 07:29	06/02/15 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*73*		*37 - 120*	*05/27/15 07:29*	*06/02/15 21:15*	*1*
Terphenyl-d14 (Surr)	*109*		*36 - 134*	*05/27/15 07:29*	*06/02/15 21:15*	*1*
2,4,6-Tribromophenol (Surr)	*70*		*32 - 133*	*05/27/15 07:29*	*06/02/15 21:15*	*1*
2-Fluorobiphenyl	*53*		*44 - 120*	*05/27/15 07:29*	*06/02/15 21:15*	*1*
2-Fluorophenol (Surr)	*55*		*25 - 120*	*05/27/15 07:29*	*06/02/15 21:15*	*1*
Nitrobenzene-d5 (Surr)	*50*		*27 - 120*	*05/27/15 07:29*	*06/02/15 21:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Aluminum	**6700**		12		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Arsenic	**2.1**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Cadmium	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Chromium	**6.9**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Copper	**2.6**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Nickel	**2.5**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Lead	**8.5**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Antimony	<6.0		6.0		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1
Zinc	**9.6**		2.4		mg/Kg	☼	05/28/15 12:39	05/30/15 14:25	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.032**		0.020		mg/Kg	☼	05/28/15 09:07	06/02/15 10:26	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-259156/4
Matrix: Water
Analysis Batch: 259156

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/15 11:45	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/15 11:45	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/30/15 11:45	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/15 11:45	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:45	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:45	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/15 11:45	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/15 11:45	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:45	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/15 11:45	1
2-Hexanone	<25		25		ug/L			05/30/15 11:45	1
Acetone	<25		25		ug/L			05/30/15 11:45	1
Benzene	<1.0		1.0		ug/L			05/30/15 11:45	1
Bromoform	<5.0		5.0		ug/L			05/30/15 11:45	1
Bromomethane	<1.0		1.0		ug/L			05/30/15 11:45	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/15 11:45	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/15 11:45	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/15 11:45	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/15 11:45	1
Chloroethane	<1.0		1.0		ug/L			05/30/15 11:45	1
Chloroform	<1.0		1.0		ug/L			05/30/15 11:45	1
Chloromethane	<1.0		1.0		ug/L			05/30/15 11:45	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:45	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 11:45	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/15 11:45	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/15 11:45	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			05/30/15 11:45	1
2-Butanone (MEK)	<25		25		ug/L			05/30/15 11:45	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			05/30/15 11:45	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/15 11:45	1
o-Xylene	<5.0		5.0		ug/L			05/30/15 11:45	1
Styrene	<1.0		1.0		ug/L			05/30/15 11:45	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/15 11:45	1
Toluene	<1.0		1.0		ug/L			05/30/15 11:45	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/15 11:45	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/30/15 11:45	1
Trichloroethene	<1.0		1.0		ug/L			05/30/15 11:45	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/15 11:45	1
Xylenes, Total	<5.0		5.0		ug/L			05/30/15 11:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*78 - 118*		*05/30/15 11:45*	*1*
Dibromofluoromethane	*106*		*81 - 121*		*05/30/15 11:45*	*1*
Toluene-d8 (Surr)	*98*		*80 - 120*		*05/30/15 11:45*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259156/1002
Matrix: Water
Analysis Batch: 259156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	47.8		ug/L		96	66 - 130
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/L		109	68 - 132
1,1,2-Trichloroethane	50.0	54.1		ug/L		108	80 - 120
1,1-Dichloroethane	50.0	50.9		ug/L		102	75 - 126
1,1-Dichloroethene	50.0	48.0		ug/L		96	50 - 134
1,2-Dichlorobenzene	50.0	51.4		ug/L		103	80 - 121
1,2-Dichloroethane	50.0	55.7		ug/L		111	69 - 128
1,2-Dichloropropane	50.0	50.9		ug/L		102	77 - 126
1,3-Dichlorobenzene	50.0	49.5		ug/L		99	77 - 124
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	79 - 120
2-Hexanone	200	219		ug/L		110	60 - 150
Acetone	200	209		ug/L		105	24 - 150
Benzene	50.0	48.8		ug/L		98	79 - 120
Bromoform	50.0	52.5		ug/L		105	65 - 121
Bromomethane	50.0	60.9		ug/L		122	10 - 150
Carbon disulfide	50.0	53.5		ug/L		107	41 - 140
Carbon tetrachloride	50.0	52.0		ug/L		104	46 - 141
Chlorobenzene	50.0	49.5		ug/L		99	80 - 120
Chlorodibromomethane	50.0	55.0		ug/L		110	63 - 125
Chloroethane	50.0	49.9		ug/L		100	37 - 150
Chloroform	50.0	51.5		ug/L		103	73 - 122
Chloromethane	50.0	45.7		ug/L		91	49 - 141
cis-1,2-Dichloroethene	50.0	52.4		ug/L		105	78 - 122
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	70 - 122
Dichlorobromomethane	50.0	54.3		ug/L		109	75 - 127
Ethylbenzene	50.0	47.8		ug/L		96	80 - 120
m-Xylene & p-Xylene	50.0	48.3		ug/L		97	70 - 130
2-Butanone (MEK)	200	248		ug/L		124	62 - 137
4-Methyl-2-pentanone (MIBK)	200	241		ug/L		121	63 - 150
Methylene Chloride	50.0	56.7		ug/L		113	70 - 130
o-Xylene	50.0	49.6		ug/L		99	70 - 130
Styrene	50.0	53.4		ug/L		107	79 - 124
Tetrachloroethene	50.0	44.9		ug/L		90	76 - 124
Toluene	50.0	47.7		ug/L		95	80 - 120
trans-1,2-Dichloroethene	50.0	48.3		ug/L		97	70 - 126
trans-1,3-Dichloropropene	50.0	56.1		ug/L		112	64 - 120
Trichloroethene	50.0	47.7		ug/L		95	77 - 120
Vinyl chloride	50.0	49.8		ug/L		100	60 - 128
Xylenes, Total	100	97.9		ug/L		98	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*78 - 118*
Dibromofluoromethane	*103*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259530/1-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Hexanone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Acetone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Benzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromoform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloromethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Butanone (MEK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Methylene Chloride	<15		15		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
o-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Styrene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Toluene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Trichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 122*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 12:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259530/2-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	72 - 121
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	67 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	75 - 118
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	61 - 128
1,1-Dichloroethene	50.0	48.7		ug/Kg		97	62 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	76 - 120
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	64 - 129
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	78 - 118
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	77 - 118
2-Hexanone	200	203		ug/Kg		102	54 - 140
Acetone	200	193		ug/Kg		96	43 - 150
Benzene	50.0	48.6		ug/Kg		97	74 - 119
Bromoform	50.0	48.2		ug/Kg		96	54 - 125
Bromomethane	50.0	55.9		ug/Kg		112	25 - 150
Carbon disulfide	50.0	44.4		ug/Kg		89	26 - 150
Carbon tetrachloride	50.0	49.8		ug/Kg		100	70 - 128
Chlorobenzene	50.0	47.9		ug/Kg		96	80 - 116
Chlorodibromomethane	50.0	50.2		ug/Kg		100	65 - 131
Chloroethane	50.0	51.2		ug/Kg		102	22 - 150
Chloroform	50.0	48.9		ug/Kg		98	74 - 119
Chloromethane	50.0	50.3		ug/Kg		101	36 - 147
cis-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	68 - 126
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 125
Dichlorobromomethane	50.0	49.2		ug/Kg		98	68 - 128
Ethylbenzene	50.0	49.3		ug/Kg		99	78 - 120
m-Xylene & p-Xylene	50.0	48.8		ug/Kg		98	70 - 120
2-Butanone (MEK)	200	205		ug/Kg		103	62 - 126
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	56 - 137
Methylene Chloride	50.0	45.4		ug/Kg		91	45 - 150
o-Xylene	50.0	49.3		ug/Kg		99	70 - 120
Styrene	50.0	49.0		ug/Kg		98	66 - 132
Tetrachloroethene	50.0	47.1		ug/Kg		94	74 - 126
Toluene	50.0	47.8		ug/Kg		96	76 - 120
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	65 - 130
trans-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	65 - 126
Trichloroethene	50.0	48.6		ug/Kg		97	76 - 122
Vinyl chloride	50.0	52.1		ug/Kg		104	52 - 134
Xylenes, Total	100	98.1		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*101*		*79 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Chlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzidine	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Carbazole	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Chrysene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenzofuran	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Diethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dimethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluorene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobutadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Isophorone	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Naphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Nitrobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pentachlorophenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenanthrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dinoseb	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Terphenyl-d14 (Surr)	*113*		*36 - 134*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 133*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorobiphenyl	*73*		*44 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorophenol (Surr)	*31*		*25 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Nitrobenzene-d5 (Surr)	*31*		*27 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	531	*	ug/Kg		53	58 - 120
1-Methylnaphthalene	1000	861		ug/Kg		86	66 - 120
2,4,5-Trichlorophenol	1000	933		ug/Kg		93	62 - 120
2,4,6-Trichlorophenol	1000	901		ug/Kg		90	59 - 120
2,4-Dichlorophenol	1000	930		ug/Kg		93	67 - 120
2,4-Dimethylphenol	1000	895		ug/Kg		89	65 - 120
2,4-Dinitrophenol	2610	2420		ug/Kg		93	23 - 124
2-Chlorophenol	1000	816		ug/Kg		82	60 - 120
2-Nitrophenol	1000	816		ug/Kg		82	56 - 120
Acenaphthene	1000	883		ug/Kg		88	62 - 120
Acenaphthylene	1000	913		ug/Kg		91	61 - 120
Anthracene	1000	983		ug/Kg		98	68 - 120
Benzo[a]anthracene	1000	958		ug/Kg		96	67 - 120
Benzo[a]pyrene	1000	997		ug/Kg		100	64 - 120
Benzo[b]fluoranthene	1000	1030		ug/Kg		103	58 - 121
Benzo[g,h,i]perylene	1000	833		ug/Kg		83	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	849		ug/Kg		85	60 - 120
Bis(2-chloroethyl)ether	1000	650		ug/Kg		65	55 - 120
Bis(2-ethylhexyl) phthalate	1000	946		ug/Kg		95	59 - 136
Butyl benzyl phthalate	1000	979		ug/Kg		98	55 - 135
Carbazole	1000	1100		ug/Kg		110	69 - 121
Chrysene	1000	923		ug/Kg		92	65 - 120
Di-n-butyl phthalate	1000	1000		ug/Kg		100	67 - 132
Di-n-octyl phthalate	1000	791		ug/Kg		79	58 - 132
Dibenz(a,h)anthracene	1000	848		ug/Kg		85	58 - 130
Dibenzofuran	1000	921		ug/Kg		92	65 - 120
Diethyl phthalate	1000	965		ug/Kg		96	62 - 124
Dimethyl phthalate	1000	949		ug/Kg		95	52 - 123
Fluoranthene	1000	973		ug/Kg		97	67 - 123
Fluorene	1000	976		ug/Kg		98	64 - 120
Hexachlorobenzene	1000	962		ug/Kg		96	57 - 131
Hexachlorobutadiene	1000	698		ug/Kg		70	56 - 120
Hexachlorocyclopentadiene	1000	867		ug/Kg		87	1 - 153
Hexachloroethane	1000	529		ug/Kg		53	53 - 120
Indeno[1,2,3-cd]pyrene	1000	854		ug/Kg		85	55 - 133
Isophorone	1000	847		ug/Kg		85	63 - 120
N-Nitrosodi-n-propylamine	1000	858		ug/Kg		86	34 - 150
N-Nitrosodimethylamine	1000	537		ug/Kg		54	26 - 140
N-Nitrosodiphenylamine	2000	1920		ug/Kg		96	16 - 160
Naphthalene	1000	755		ug/Kg		76	59 - 120
Nitrobenzene	1000	766		ug/Kg		77	53 - 125
Pentachlorophenol	2000	1830		ug/Kg		91	30 - 136
Phenanthrene	1000	953		ug/Kg		95	62 - 130
Phenol	1000	864		ug/Kg		86	54 - 120
Pyrene	1000	1050		ug/Kg		105	57 - 127
1,2,4-Trichlorobenzene	1000	728		ug/Kg		73	62 - 120
1,2-Dichlorobenzene	1000	575	*	ug/Kg		57	58 - 120
2,4-Dinitrotoluene	1000	981		ug/Kg		98	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*37 - 120*
Terphenyl-d14 (Surr)	*107*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*106*		*32 - 133*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*25 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Lab Sample ID: 400-105954-5 MS
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: SB-3 0'-4'
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	<410	*	1250	484		ug/Kg	☼	39	35 - 120
1-Methylnaphthalene	<410		1250	949		ug/Kg	☼	76	10 - 150

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105954-5 MS | **Client Sample ID: SB-3 0'-4'**
Matrix: Solid | **Prep Type: Total/NA**
Analysis Batch: 259419 | **Prep Batch: 258556**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-Trichlorophenol	<410		1250	1040		ug/Kg	☼	84	34 - 120
2,4,6-Trichlorophenol	<410		1250	1020		ug/Kg	☼	82	35 - 120
2,4-Dichlorophenol	<410		1250	1030		ug/Kg	☼	83	38 - 120
2,4-Dimethylphenol	<410		1250	1030		ug/Kg	☼	83	10 - 150
2,4-Dinitrophenol	<1200		3250	1960		ug/Kg	☼	60	10 - 122
2-Chlorophenol	<410		1250	813		ug/Kg	☼	65	39 - 120
2-Nitrophenol	<410		1250	858		ug/Kg	☼	69	20 - 120
Acenaphthene	<410		1250	1020		ug/Kg	☼	82	10 - 150
Acenaphthylene	<410		1250	1060		ug/Kg	☼	85	10 - 150
Anthracene	<410		1250	1130		ug/Kg	☼	91	10 - 150
Benzo[a]anthracene	<410		1250	1190		ug/Kg	☼	95	10 - 150
Benzo[a]pyrene	<410		1250	1190		ug/Kg	☼	96	10 - 150
Benzo[b]fluoranthene	<410		1250	1270		ug/Kg	☼	102	10 - 150
Benzo[g,h,i]perylene	<410		1250	987		ug/Kg	☼	79	10 - 150
Benzo[k]fluoranthene	<410		1250	1210		ug/Kg	☼	97	10 - 150
Bis(2-chloroethoxy)methane	<410		1250	931		ug/Kg	☼	75	25 - 120
Bis(2-chloroethyl)ether	<410		1250	673		ug/Kg	☼	54	29 - 120
Bis(2-ethylhexyl) phthalate	<410		1250	1130		ug/Kg	☼	90	10 - 150
Butyl benzyl phthalate	<410		1250	1170		ug/Kg	☼	94	10 - 150
Carbazole	<410		1250	1040		ug/Kg	☼	84	10 - 150
Chrysene	<410		1250	1170		ug/Kg	☼	94	10 - 150
Di-n-butyl phthalate	<410		1250	1150		ug/Kg	☼	93	10 - 150
Di-n-octyl phthalate	<410		1250	984		ug/Kg	☼	79	10 - 150
Dibenz(a,h)anthracene	<410		1250	994		ug/Kg	☼	80	32 - 120
Dibenzofuran	<410		1250	1060		ug/Kg	☼	85	10 - 150
Diethyl phthalate	<410		1250	1120		ug/Kg	☼	90	10 - 150
Dimethyl phthalate	<410		1250	1110		ug/Kg	☼	89	40 - 120
Fluoranthene	<410		1250	1260		ug/Kg	☼	99	10 - 150
Fluorene	<410		1250	1120		ug/Kg	☼	90	10 - 150
Hexachlorobenzene	<410		1250	1110		ug/Kg	☼	89	42 - 120
Hexachlorobutadiene	<410		1250	660		ug/Kg	☼	53	10 - 150
Hexachlorocyclopentadiene	<410		1250	691		ug/Kg	☼	56	10 - 150
Hexachloroethane	<410		1250	472		ug/Kg	☼	38	10 - 120
Indeno[1,2,3-cd]pyrene	<410		1250	1030		ug/Kg	☼	83	10 - 150
Isophorone	<410		1250	986		ug/Kg	☼	79	36 - 121
N-Nitrosodi-n-propylamine	<410		1250	920		ug/Kg	☼	74	10 - 145
N-Nitrosodimethylamine	<410		1250	538		ug/Kg	☼	43	17 - 120
N-Nitrosodiphenylamine	<410		2490	2190		ug/Kg	☼	88	10 - 150
Naphthalene	<410		1250	766		ug/Kg	☼	62	10 - 150
Nitrobenzene	<410		1250	777		ug/Kg	☼	62	33 - 120
Pentachlorophenol	<820		2490	1790		ug/Kg	☼	72	10 - 150
Phenanthrene	<410		1250	1120		ug/Kg	☼	90	10 - 150
Phenol	<410		1250	914		ug/Kg	☼	73	10 - 150
Pyrene	<410		1250	1350		ug/Kg	☼	108	10 - 150
1,2,4-Trichlorobenzene	<410		1250	727		ug/Kg	☼	58	10 - 150
1,2-Dichlorobenzene	<410	*	1250	534		ug/Kg	☼	43	10 - 150
2,4-Dinitrotoluene	<410		1250	1150		ug/Kg	☼	92	40 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105954-5 MS
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: SB-3 0'-4'
Prep Type: Total/NA
Prep Batch: 258556

Surrogate	MS %Recovery	MS Qualifier	Limits
Phenol-d5 (Surr)	*76*		*37 - 120*
Terphenyl-d14 (Surr)	*100*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*92*		*32 - 133*
2-Fluorobiphenyl	*73*		*44 - 120*
2-Fluorophenol (Surr)	*59*		*25 - 120*
Nitrobenzene-d5 (Surr)	*61*		*27 - 120*

Lab Sample ID: 400-105954-5 MSD
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: SB-3 0'-4'
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	<410	*	1260	545		ug/Kg	☼	43	35 - 120	12	33
1-Methylnaphthalene	<410		1260	874		ug/Kg	☼	70	10 - 150	8	29
2,4,5-Trichlorophenol	<410		1260	974		ug/Kg	☼	78	34 - 120	7	35
2,4,6-Trichlorophenol	<410		1260	959		ug/Kg	☼	76	35 - 120	7	30
2,4-Dichlorophenol	<410		1260	992		ug/Kg	☼	79	38 - 120	4	29
2,4-Dimethylphenol	<410		1260	957		ug/Kg	☼	76	10 - 150	8	38
2,4-Dinitrophenol	<1200		3280	1820		ug/Kg	☼	55	10 - 122	7	41
2-Chlorophenol	<410		1260	801		ug/Kg	☼	64	39 - 120	1	31
2-Nitrophenol	<410		1260	830		ug/Kg	☼	66	20 - 120	3	41
Acenaphthene	<410		1260	900		ug/Kg	☼	72	10 - 150	12	36
Acenaphthylene	<410		1260	939		ug/Kg	☼	75	10 - 150	12	29
Anthracene	<410		1260	996		ug/Kg	☼	79	10 - 150	13	30
Benzo[a]anthracene	<410		1260	973		ug/Kg	☼	77	10 - 150	20	33
Benzo[a]pyrene	<410		1260	1020		ug/Kg	☼	82	10 - 150	15	30
Benzo[b]fluoranthene	<410		1260	1090		ug/Kg	☼	87	10 - 150	15	31
Benzo[g,h,i]perylene	<410		1260	761		ug/Kg	☼	61	10 - 150	26	30
Benzo[k]fluoranthene	<410		1260	1060		ug/Kg	☼	84	10 - 150	13	29
Bis(2-chloroethoxy)methane	<410		1260	849		ug/Kg	☼	68	25 - 120	9	65
Bis(2-chloroethyl)ether	<410		1260	597		ug/Kg	☼	48	29 - 120	12	33
Bis(2-ethylhexyl) phthalate	<410		1260	975		ug/Kg	☼	78	10 - 150	14	36
Butyl benzyl phthalate	<410		1260	1030		ug/Kg	☼	82	10 - 150	13	53
Carbazole	<410		1260	1110		ug/Kg	☼	88	10 - 150	6	28
Chrysene	<410		1260	923		ug/Kg	☼	73	10 - 150	23	33
Di-n-butyl phthalate	<410		1260	960		ug/Kg	☼	76	10 - 150	18	36
Di-n-octyl phthalate	<410		1260	828		ug/Kg	☼	66	10 - 150	17	42
Dibenz(a,h)anthracene	<410		1260	792		ug/Kg	☼	63	32 - 120	23	30
Dibenzofuran	<410		1260	950		ug/Kg	☼	76	10 - 150	11	30
Diethyl phthalate	<410		1260	974		ug/Kg	☼	77	10 - 150	14	30
Dimethyl phthalate	<410		1260	976		ug/Kg	☼	78	40 - 120	13	28
Fluoranthene	<410		1260	1000		ug/Kg	☼	77	10 - 150	23	42
Fluorene	<410		1260	1010		ug/Kg	☼	80	10 - 150	10	36
Hexachlorobenzene	<410		1260	953		ug/Kg	☼	76	42 - 120	15	30
Hexachlorobutadiene	<410		1260	659		ug/Kg	☼	52	10 - 150	0	31
Hexachlorocyclopentadiene	<410		1260	661		ug/Kg	☼	53	10 - 150	5	38
Hexachloroethane	<410		1260	536		ug/Kg	☼	43	10 - 120	13	38
Indeno[1,2,3-cd]pyrene	<410		1260	818		ug/Kg	☼	65	10 - 150	23	31

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-105954-5 MSD
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: SB-3 0'-4'
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isophorone	<410		1260	880		ug/Kg	☼	70	36 - 121	11	34
N-Nitrosodi-n-propylamine	<410		1260	863		ug/Kg	☼	69	10 - 145	6	44
N-Nitrosodimethylamine	<410		1260	552		ug/Kg	☼	44	17 - 120	3	34
N-Nitrosodiphenylamine	<410		2510	1990		ug/Kg	☼	79	10 - 150	10	35
Naphthalene	<410		1260	731		ug/Kg	☼	58	10 - 150	5	33
Nitrobenzene	<410		1260	743		ug/Kg	☼	59	33 - 120	4	29
Pentachlorophenol	<820		2510	1680		ug/Kg	☼	67	10 - 150	7	45
Phenanthrene	<410		1260	970		ug/Kg	☼	77	10 - 150	15	34
Phenol	<410		1260	882		ug/Kg	☼	70	10 - 150	4	35
Pyrene	<410		1260	1150		ug/Kg	☼	91	10 - 150	16	45
1,2,4-Trichlorobenzene	<410		1260	695		ug/Kg	☼	55	10 - 150	5	30
1,2-Dichlorobenzene	<410	*	1260	584		ug/Kg	☼	46	10 - 150	9	31
2,4-Dinitrotoluene	<410		1260	1010		ug/Kg	☼	81	40 - 120	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*78*		*37 - 120*
Terphenyl-d14 (Surr)	*90*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*90*		*32 - 133*
2-Fluorobiphenyl	*75*		*44 - 120*
2-Fluorophenol (Surr)	*66*		*25 - 120*
Nitrobenzene-d5 (Surr)	*70*		*27 - 120*

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,4-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1-Methylnaphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4,5-Trichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4,6-Trichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dimethylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dinitrophenol	<30		30		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Chlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Methylnaphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Nitroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Nitrophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
3 & 4 Methylphenol	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
3,3'-Dichlorobenzidine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Bromophenyl phenyl ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chloro-3-methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chloroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Nitroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Acenaphthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Acenaphthylene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzidine	<25		25		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[a]anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[a]pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[b]fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[g,h,i]perylene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[k]fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-chloroethyl)ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Butyl benzyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Carbazole	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Chrysene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Di-n-butyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Di-n-octyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dibenz(a,h)anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dibenzofuran	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Diethyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dimethyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Fluorene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorobutadiene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorocyclopentadiene	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachloroethane	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Isophorone	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodimethylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodiphenylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Naphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Nitrobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Pentachlorophenol	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
Phenanthrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Phenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,2,4-Trichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,2-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dinitrotoluene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,6-Dinitrotoluene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dinoseb	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*81*		*10 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
Terphenyl-d14 (Surr)	*115*		*53 - 125*	*05/27/15 11:27*	*05/28/15 18:24*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	101		15 - 135	05/27/15 11:27	05/28/15 18:24	1
2-Fluorobiphenyl	89		34 - 120	05/27/15 11:27	05/28/15 18:24	1
2-Fluorophenol (Surr)	71		10 - 120	05/27/15 11:27	05/28/15 18:24	1
Nitrobenzene-d5 (Surr)	92		27 - 120	05/27/15 11:27	05/28/15 18:24	1

Lab Sample ID: LCS 400-258628/2-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	30.0	18.6		ug/L		62	51 - 120
1-Methylnaphthalene	30.0	25.9		ug/L		86	59 - 120
2,4,5-Trichlorophenol	30.0	27.4		ug/L		91	53 - 130
2,4,6-Trichlorophenol	30.0	27.1		ug/L		90	52 - 131
2,4-Dichlorophenol	30.0	27.6		ug/L		92	52 - 125
2,4-Dimethylphenol	30.0	25.0		ug/L		83	52 - 121
2,4-Dinitrophenol	78.4	76.1		ug/L		97	22 - 146
2-Chlorophenol	30.0	22.9		ug/L		76	45 - 120
2-Nitrophenol	30.0	25.6		ug/L		85	47 - 129
Acenaphthene	30.0	26.7		ug/L		89	57 - 125
Acenaphthylene	30.0	27.1		ug/L		90	59 - 125
Anthracene	30.0	28.1		ug/L		94	65 - 128
Benzo[a]anthracene	30.0	26.2		ug/L		87	63 - 126
Benzo[a]pyrene	30.0	26.9		ug/L		90	61 - 125
Benzo[b]fluoranthene	30.0	26.9		ug/L		90	49 - 140
Benzo[g,h,i]perylene	30.0	26.8		ug/L		89	51 - 149
Benzo[k]fluoranthene	30.0	26.4		ug/L		88	56 - 138
Bis(2-chloroethoxy)methane	30.0	26.5		ug/L		88	54 - 123
Bis(2-chloroethyl)ether	30.0	24.7		ug/L		82	47 - 120
Bis(2-ethylhexyl) phthalate	30.0	26.8		ug/L		89	62 - 140
Butyl benzyl phthalate	30.0	25.2		ug/L		84	51 - 150
Carbazole	30.0	32.4		ug/L		108	57 - 136
Chrysene	30.0	26.0		ug/L		87	60 - 126
Di-n-butyl phthalate	30.0	27.8		ug/L		93	59 - 144
Di-n-octyl phthalate	30.0	26.1		ug/L		87	55 - 140
Dibenz(a,h)anthracene	30.0	27.0		ug/L		90	57 - 133
Dibenzofuran	30.0	27.4		ug/L		91	62 - 124
Diethyl phthalate	30.0	26.9		ug/L		90	55 - 140
Dimethyl phthalate	30.0	27.5		ug/L		92	50 - 133
Fluoranthene	30.0	29.1		ug/L		97	66 - 131
Fluorene	30.0	28.2		ug/L		94	60 - 132
Hexachlorobenzene	30.0	27.7		ug/L		92	60 - 138
Hexachlorobutadiene	30.0	20.1		ug/L		67	48 - 126
Hexachlorocyclopentadiene	30.0	13.2	J	ug/L		44	1 - 139
Hexachloroethane	30.0	16.2		ug/L		54	46 - 121
Indeno[1,2,3-cd]pyrene	30.0	27.5		ug/L		92	55 - 135
Isophorone	30.0	26.2		ug/L		87	57 - 122
N-Nitrosodi-n-propylamine	30.0	25.5		ug/L		85	41 - 143

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258628/2-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodimethylamine	30.0	21.4		ug/L		71	21 - 134
N-Nitrosodiphenylamine	60.0	55.4		ug/L		92	10 - 185
Naphthalene	30.0	23.6		ug/L		79	55 - 125
Nitrobenzene	30.0	25.3		ug/L		84	52 - 128
Pentachlorophenol	60.0	56.9		ug/L		95	38 - 138
Phenanthrene	30.0	27.1		ug/L		90	64 - 133
Phenol	30.0	23.2		ug/L		77	37 - 120
Pyrene	30.0	25.0		ug/L		83	55 - 142
1,2,4-Trichlorobenzene	30.0	21.7		ug/L		72	57 - 120
1,2-Dichlorobenzene	30.0	19.5		ug/L		65	53 - 120
2,4-Dinitrotoluene	30.0	28.4		ug/L		95	54 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*82*		*10 - 120*
Terphenyl-d14 (Surr)	*91*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*112*		*15 - 135*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol (Surr)	*58*		*10 - 120*
Nitrobenzene-d5 (Surr)	*88*		*27 - 120*

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	30.0	20.8		ug/L		69	51 - 120	11	30
1-Methylnaphthalene	30.0	26.2		ug/L		87	59 - 120	1	30
2,4,5-Trichlorophenol	30.0	26.0		ug/L		87	53 - 130	5	30
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131	5	30
2,4-Dichlorophenol	30.0	25.9		ug/L		86	52 - 125	7	30
2,4-Dimethylphenol	30.0	22.9		ug/L		76	52 - 121	9	30
2,4-Dinitrophenol	78.4	67.9		ug/L		87	22 - 146	11	30
2-Chlorophenol	30.0	22.6		ug/L		75	45 - 120	2	30
2-Nitrophenol	30.0	24.5		ug/L		82	47 - 129	5	30
Acenaphthene	30.0	26.5		ug/L		88	57 - 125	1	30
Acenaphthylene	30.0	26.8		ug/L		89	59 - 125	1	30
Anthracene	30.0	27.6		ug/L		92	65 - 128	2	30
Benzo[a]anthracene	30.0	26.1		ug/L		87	63 - 126	0	30
Benzo[a]pyrene	30.0	26.4		ug/L		88	61 - 125	2	30
Benzo[b]fluoranthene	30.0	27.1		ug/L		90	49 - 140	1	30
Benzo[g,h,i]perylene	30.0	25.9		ug/L		86	51 - 149	3	30
Benzo[k]fluoranthene	30.0	26.8		ug/L		89	56 - 138	1	30
Bis(2-chloroethoxy)methane	30.0	25.3		ug/L		84	54 - 123	4	30
Bis(2-chloroethyl)ether	30.0	22.6		ug/L		75	47 - 120	9	30
Bis(2-ethylhexyl) phthalate	30.0	27.7		ug/L		92	62 - 140	3	30
Butyl benzyl phthalate	30.0	25.8		ug/L		86	51 - 150	2	30
Carbazole	30.0	31.2		ug/L		104	57 - 136	4	30
Chrysene	30.0	25.7		ug/L		86	60 - 126	1	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Di-n-butyl phthalate			30.0	27.7		ug/L		92	59 - 144	1	30
Di-n-octyl phthalate			30.0	25.6		ug/L		85	55 - 140	2	30
Dibenz(a,h)anthracene			30.0	26.2		ug/L		87	57 - 133	3	30
Dibenzofuran			30.0	27.1		ug/L		90	62 - 124	1	30
Diethyl phthalate			30.0	26.0		ug/L		87	55 - 140	3	30
Dimethyl phthalate			30.0	26.2		ug/L		87	50 - 133	5	30
Fluoranthene			30.0	28.1		ug/L		94	66 - 131	4	30
Fluorene			30.0	27.7		ug/L		92	60 - 132	2	30
Hexachlorobenzene			30.0	28.1		ug/L		94	60 - 138	1	30
Hexachlorobutadiene			30.0	23.4		ug/L		78	48 - 126	15	30
Hexachlorocyclopentadiene			30.0	12.1	J	ug/L		40	1 - 139	8	30
Hexachloroethane			30.0	19.1		ug/L		64	46 - 121	16	30
Indeno[1,2,3-cd]pyrene			30.0	26.5		ug/L		88	55 - 135	4	30
Isophorone			30.0	25.5		ug/L		85	57 - 122	2	30
N-Nitrosodi-n-propylamine			30.0	24.9		ug/L		83	41 - 143	3	30
N-Nitrosodimethylamine			30.0	19.3		ug/L		64	21 - 134	10	30
N-Nitrosodiphenylamine			60.0	54.2		ug/L		90	10 - 185	2	30
Naphthalene			30.0	24.1		ug/L		80	55 - 125	2	30
Nitrobenzene			30.0	24.6		ug/L		82	52 - 128	3	30
Pentachlorophenol			60.0	55.3		ug/L		92	38 - 138	3	30
Phenanthrene			30.0	26.8		ug/L		89	64 - 133	1	30
Phenol			30.0	19.1		ug/L		64	37 - 120	19	30
Pyrene			30.0	25.8		ug/L		86	55 - 142	3	30
1,2,4-Trichlorobenzene			30.0	23.5		ug/L		78	57 - 120	8	30
1,2-Dichlorobenzene			30.0	21.4		ug/L		71	53 - 120	9	30
2,4-Dinitrotoluene			30.0	27.4		ug/L		91	54 - 141	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*66*		*10 - 120*
Terphenyl-d14 (Surr)	*93*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*103*		*15 - 135*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol (Surr)	*64*		*10 - 120*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<10		10		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Arsenic	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Beryllium	<0.30		0.30		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Cadmium	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Chromium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Copper	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Lead	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Antimony	<5.0		5.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Silver	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Selenium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Thallium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Zinc	<2.0		2.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Lab Sample ID: LCS 400-258853/2-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	989	1010		mg/Kg		102	80 - 120
Arsenic	98.9	97.5		mg/Kg		99	80 - 120
Beryllium	49.4	50.9		mg/Kg		103	80 - 120
Cadmium	49.4	47.9		mg/Kg		97	80 - 120
Chromium	98.9	101		mg/Kg		102	80 - 120
Copper	98.9	103		mg/Kg		104	80 - 120
Nickel	98.9	96.1		mg/Kg		97	80 - 120
Lead	98.9	97.1		mg/Kg		98	80 - 120
Antimony	98.9	97.8		mg/Kg		99	80 - 120
Silver	49.4	51.1		mg/Kg		103	80 - 120
Selenium	98.9	95.3		mg/Kg		96	80 - 120
Thallium	98.9	97.6		mg/Kg		99	80 - 120
Zinc	98.9	101		mg/Kg		102	80 - 120

Lab Sample ID: MB 400-258303/1-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Beryllium	<0.0030		0.0030		mg/L		05/23/15 10:35	05/26/15 15:19	1
Cadmium	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Chromium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Copper	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Nickel	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Lead	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Antimony	<0.050		0.050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Silver	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Selenium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Thallium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Zinc	<0.020		0.020		mg/L		05/23/15 10:35	05/26/15 15:19	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-258303/2-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.10		mg/L		110	80 - 120
Beryllium	0.500	0.541		mg/L		108	80 - 120
Cadmium	0.500	0.541		mg/L		108	80 - 120
Chromium	1.00	1.08		mg/L		108	80 - 120
Copper	1.00	1.11		mg/L		111	80 - 120
Nickel	1.00	1.07		mg/L		107	80 - 120
Lead	1.00	1.07		mg/L		107	80 - 120
Antimony	1.00	1.08		mg/L		108	80 - 120
Silver	0.500	0.544		mg/L		109	80 - 120
Selenium	1.00	1.10		mg/L		110	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Zinc	1.00	1.15		mg/L		115	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-258506/13-A
Matrix: Water
Analysis Batch: 258898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/26/15 15:12	05/28/15 13:24	1

Lab Sample ID: LCS 400-258506/14-A
Matrix: Water
Analysis Batch: 258898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	1.11		ug/L		110	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-258800/14-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		05/28/15 09:07	06/02/15 09:27	1

Lab Sample ID: LCS 400-258800/15-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0670	0.0714		mg/Kg		107	80 - 120

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Nellena and Stokley Property

TestAmerica Job ID: 400-105954-1

Client Sample ID: SB-1 0'-3.5'

Lab Sample ID: 400-105954-1
Date Collected: 05/21/15 09:30
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 17:48	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 21:53	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 14:18	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 10:04	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Client Sample ID: B-1 0'-3.5'

Lab Sample ID: 400-105954-2
Date Collected: 05/21/15 09:42
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 81.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 18:12	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 22:31	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:58	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 10:05	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Client Sample ID: TW-1

Lab Sample ID: 400-105954-3
Date Collected: 05/21/15 11:30
Matrix: Water
Date Received: 05/21/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259156	05/30/15 12:11	EAS	TAL PEN
Total/NA	Prep	3520C			258628	05/27/15 11:27	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 18:43	AJR	TAL PEN
Total Recoverable	Prep	3005A			258303	05/23/15 10:35	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258567	05/26/15 16:09	SLM	TAL PEN
Total/NA	Prep	7470A			258506	05/26/15 15:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258898	05/28/15 13:29	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Nellena and Stokley Property

TestAmerica Job ID: 400-105954-1

Client Sample ID: SB-2 0'-3.5'

Lab Sample ID: 400-105954-4

Date Collected: 05/21/15 09:58
Date Received: 05/21/15 15:40

Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 18:37	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 23:09	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 14:21	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 10:25	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Client Sample ID: SB-3 0'-4'

Lab Sample ID: 400-105954-5

Date Collected: 05/21/15 10:05
Date Received: 05/21/15 15:40

Matrix: Solid
Percent Solids: 79.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 19:01	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 21:15	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 14:25	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 10:26	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone:	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 1
Company: Thompson Engineering Inc				Job #: 400-105954 COC

Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT
City: Mobile	TAT Requested (days): Standard TAT
State, Zip: AL, 36606	
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required
Email: mmontgomery@thompsonengineering.com	WO #:
Project Name: Thompson Engineering	Project #: 40003023
Site: Mellena and Stokley Property	SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCs Target Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
SB-1 0'-3.5'	5/21/15	0930	C	Solid	N	N	1	1		X	X		2	
B-1 0'-3.5'	5/21/15	0942	C	Solid	N	N	1	1		X	X		2	
TW-1	5/21/15	1130	G	~~Solid~~ Water	N	N	X		3	2	1		6	
SB-2 0'-3.5'	5/21/15	0958	C	Solid	N	N	1	1		X	X		2	
SB-3 0'-4'	5/21/15	1005	C	Solid	N	N	1	1		X	X		2	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Melissa M. Montgomery	5/21/15 1036	Thompson Eng		5/21/15 1036	TE
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	5/21/15 1540	THOMP		5-21-15 1540	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				5-21-15 1540	TA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.6°C #559

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6/9/2015

IRWIN (FORMER ROGERS) PROPERTY

1.1 Project Background

The site is located at 358 Saint Emanuel Street in Mobile, Alabama (Figures 1 and 2, Appendix A). The property is currently a bail bond business. Past uses of the site are unknown. The western portion of the site is located within the proposed I-10 Mobile River bridge project limits. Surface elevations at the project sites are approximately 4 to 8 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on May 21, 2015. One soil boring (SB-1) was advanced on the property via Geoprobe (direct-push) technology within an area approved by the property owner (Figure 3, Appendix A). The boring was advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 8 feet below ground surface (bgs) by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from the boring from the ground surface to the top of the water table at approximately 4 feet bgs. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, the borehole was backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of fine sand. Soil boring logs are presented in Appendix B.

A copy of the laboratory analytical reports for the chemical analyses of VOCs, SVOCs, and metals for soil are included in Appendix C (Log Nos.: 400-105946-1 and 400-105946-2). The soil analytical results indicated non-detectable concentrations of VOCs and SVOCs in the soil sample collected. Aluminum, chromium, copper, lead, mercury, nickel, and zinc were reported in the soil sample collected but at concentrations below their respective ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

1.4 Conclusions

- Detectable concentrations of aluminum, chromium, copper, lead, mercury, nickel, and zinc were reported in the soil sample collected but at levels below their respective ADEM and EPA regulatory screening values.

- Groundwater was encountered during the advancement of the soil boring at a depth of approximately 4 feet below ground surface. Groundwater samples were not collected at this site.

1.5 Recommendations

Based on review of the analytical results of the soil samples collected on May 21, 2015, it is Thompson Engineering's opinion that no further investigation activities are required at this time.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
Irwin (Former Rogers) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID
							SB-1 0'-4'
Volatile Organics GC/MS							
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0056
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0056
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0056
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0056
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0056*
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0056*
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0056
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0056
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0056
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0056
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.028
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<0.028
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0056
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0056*
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0056
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0056
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0056
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0056
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0056*
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0056
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0056
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0056
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0056
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0056
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0056
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0056
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0056
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.028
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.028
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.017
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0056
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0056
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0056*
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0056
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0056*
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0056
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0056*
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0056
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0056

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
Irwin (Former Rogers) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID SB-1 0'-4'
Semivolatile Organics							
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.330
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.330
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.330
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.330
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.330
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.330
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.330
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.330
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.330
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.330
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.330
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.330
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.330
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.330
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.330
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.330
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.330
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.330
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<0.990
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.330
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.330
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.330
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.330
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.330
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.330
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.330
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.330
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.330
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.330
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.330
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.330
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.330
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.330
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.330
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.330
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.330
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.330
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.330
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.330
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.330
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.330
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.330
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.330
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.330
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.330
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.660
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.330
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.330
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.660
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.330
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.330
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.330
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<0.990
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.330
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.330
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.330
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.330
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.330
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.330
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.330
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.330
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.330
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.330
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.330
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.330

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Table 1c
Soil Analytical Results
Metals
Irwin (Former Rogers) Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[(1)]	EPA Industrial[(2)]	ADEM Residential[(3)]	ADEM Commercial[(4)]	Sample Location ID
							SB-1 0'-4'
Metals							
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	3700 F1
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<5.8 F1
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	<0.58
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.35
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.58
Chromium	7440-47-3	mg/kg	None	None	30	64	4.0
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	1.3
Lead	7439-92-1	mg/kg	400	800	400	800	4.0
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	0.021
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	1.2
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.2
Silver	7440-22-4	mg/kg	39	580	39	510	<0.58
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.2
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	3.1

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix C for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

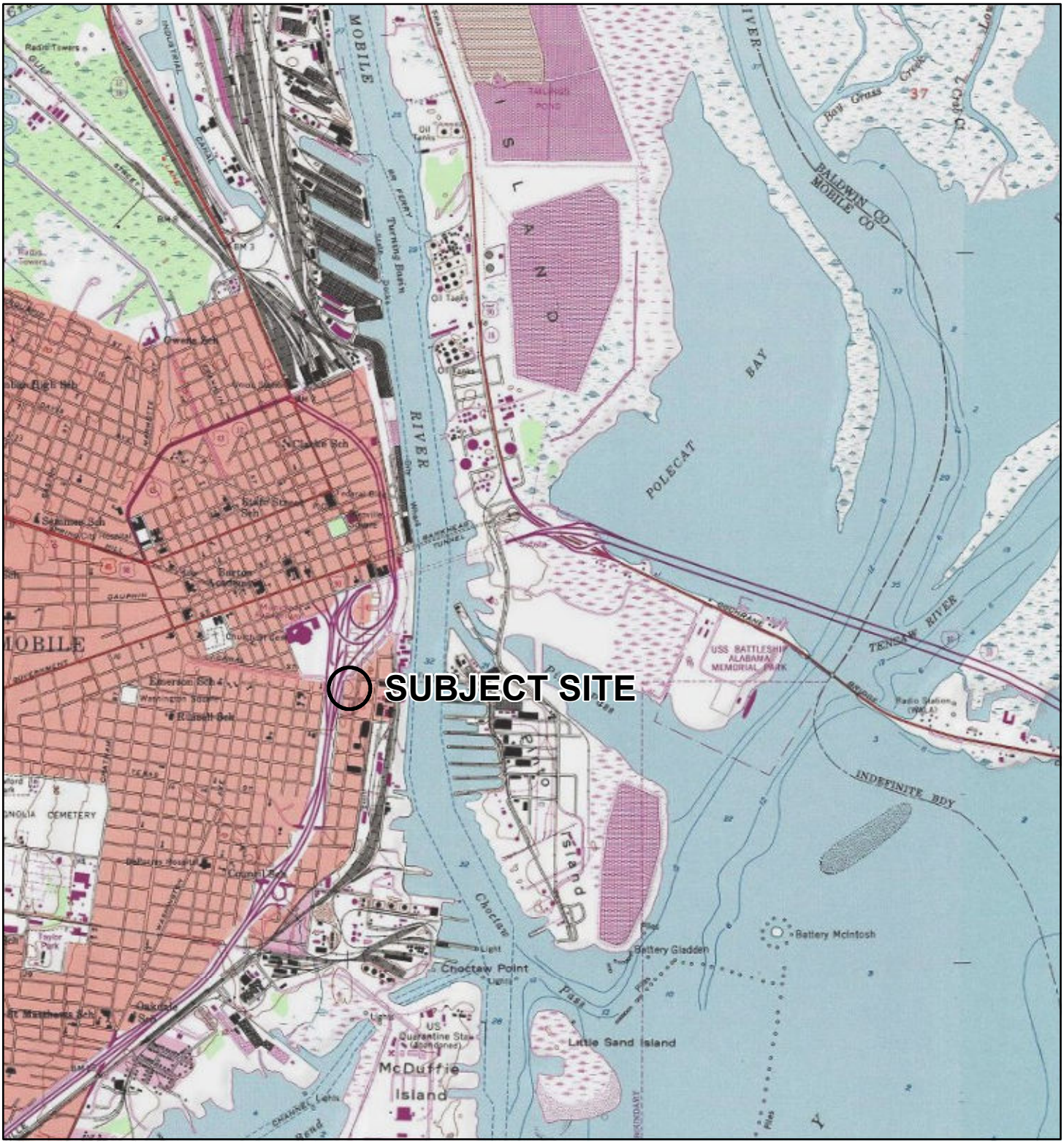
mg/kg indicates milligrams per kilogram.

F1 = MS and/or MSD Recovery is outside acceptance limits.

APPENDIX A

IRWIN (FORMER ROGERS) PROPERTY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

- Copyright:© 2013 National Geographic Society, i-cubed

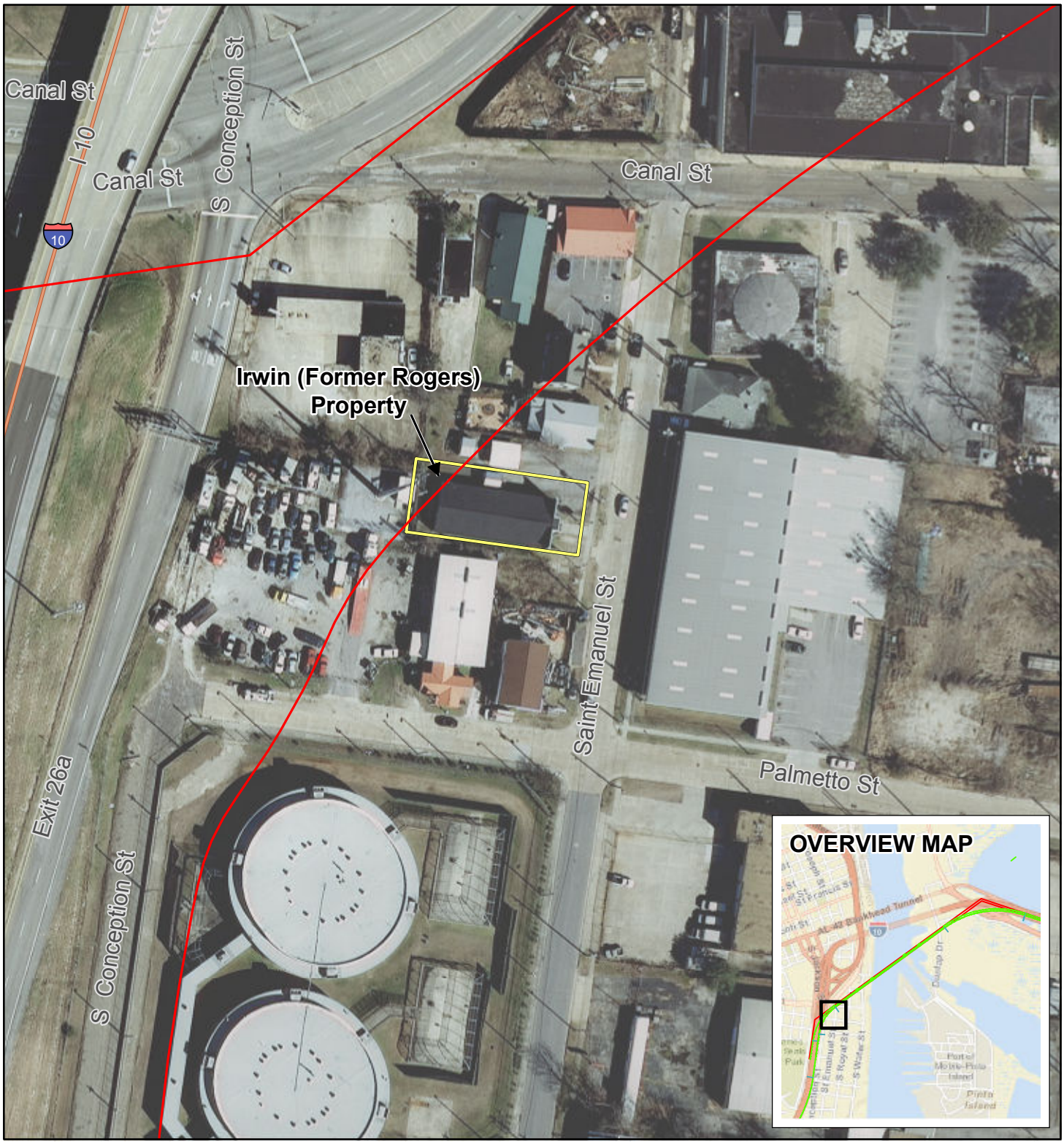
ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 1
SITE VICINITY MAP
IRWIN (Former Rogers) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

Parcel Line* Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

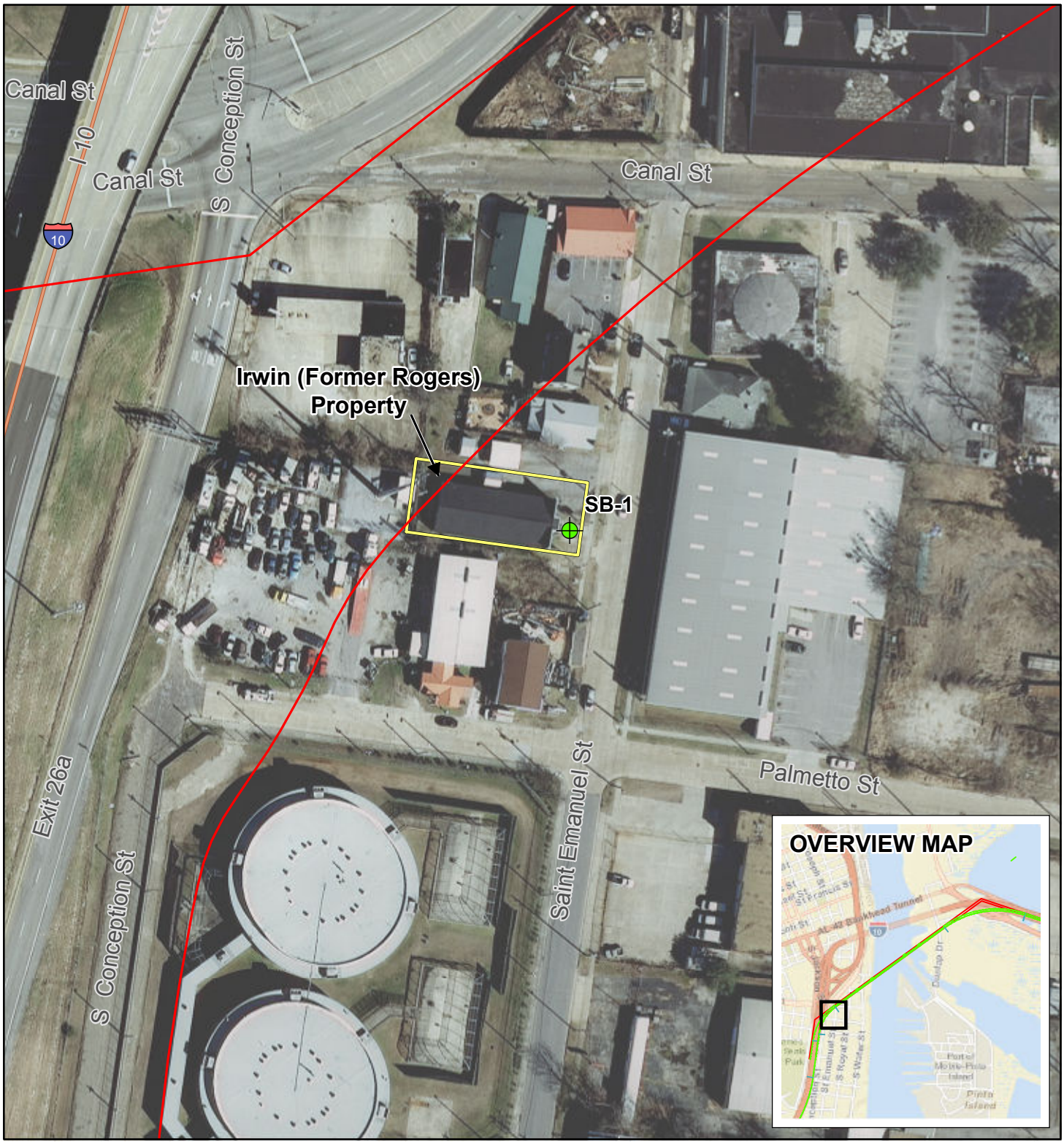
ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 2
AERIAL PHOTOGRAPH
IRWIN (Former Rogers) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-101\115-1101-0043 ALDOT - Mobile River Bridge - SO\hearn\GIS\MXD\IRWIN_FIG3.mxd



LEGEND

Soil Boring (SB)

Parcel Line*

Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

thompson ENGINEERING

FIGURE 3
BORING LOCATION PLAN
IRWIN (Former Rogers) PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-1101\15-1101-0043 ALDOT - Mobile River Bridge - SO\hearn\GIS\MXD\IRWIN_FIG3.mxd

APPENDIX B

IRWIN (FORMER ROGERS) PROPERTY
SOIL BORING LOGS

PROJECT NO.: 15-1101-0043

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 21, 2015 **GR. WATER DEPTH:** 4 ft. bgs

BORING NO.: SB-1 **LOCATION:** Irwin (Former Rogers) Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		ASPHALT and BRICK
		Light gray and gray fine SAND
5		saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

APPENDIX C

IRWIN (FORMER ROGERS) PROPERTY LABORATORY ANALYTICAL DATA WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105946-1
Client Project/Site: Irwin Property (Former Rogers)

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Mr. Steve O'Hearn

Authorized for release by:
6/23/2015 9:59:04 AM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Thompson Engineering Inc
Project/Site: Irwin Property (Former Rogers)

TestAmerica Job ID: 400-105946-1

Job ID: 400-105946-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105946-1

Comments
No additional comments.

Receipt
The sample was received on 5/21/2015 2:47 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259419 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-258556 and analytical batch 400-259419: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and 1,2-Dichlorobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259618 recovered outside acceptance criteria, low biased, for 4,6-Dinitro-2-methylphenol, 4-Nitrophenol and Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 7471A, 7471B: The matrix spike duplicate (MSD) recoveries for Prep Batch 258800 was outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 13:43
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105946-1
Matrix: Solid
Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
1,4-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
1-Methylnaphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2,4,5-Trichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2,4,6-Trichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2,4-Dichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2,4-Dimethylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2-Chlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2-Methylnaphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2-Methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2-Nitroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2-Nitrophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
3 & 4 Methylphenol	<780		780		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
3,3'-Dichlorobenzidine	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
4,6-Dinitro-2-methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
4-Bromophenyl phenyl ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
4-Chloro-3-methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
4-Chloroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
4-Chlorophenyl phenyl ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
4-Nitroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
4-Nitrophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Acenaphthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Acenaphthylene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Benzo[a]anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Benzo[a]pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Benzo[b]fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Benzo[g,h,i]perylene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Benzo[k]fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Bis(2-chloroethoxy)methane	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Bis(2-chloroethyl)ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Bis(2-ethylhexyl) phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Butyl benzyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Carbazole	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Chrysene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Di-n-butyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Di-n-octyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Dibenz(a,h)anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Dibenzofuran	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Diethyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Dimethyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Fluorene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Hexachlorobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Hexachlorobutadiene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Hexachlorocyclopentadiene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Hexachloroethane	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 13:43
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105946-1
Matrix: Solid
Percent Solids: 84.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Indeno[1,2,3-cd]pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Isophorone	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
N-Nitrosodi-n-propylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
N-Nitrosodimethylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
N-Nitrosodiphenylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Naphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Nitrobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Pentachlorophenol	<780		780		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Phenanthrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Phenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
1,2,4-Trichlorobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
1,2-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2,4-Dinitrotoluene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
2,6-Dinitrotoluene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1
Dinoseb	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*74*		*37 - 120*	*05/27/15 07:29*	*06/03/15 18:33*	*1*
Terphenyl-d14 (Surr)	*95*		*36 - 134*	*05/27/15 07:29*	*06/03/15 18:33*	*1*
2,4,6-Tribromophenol (Surr)	*58*		*32 - 133*	*05/27/15 07:29*	*06/03/15 18:33*	*1*
2-Fluorobiphenyl	*59*		*44 - 120*	*05/27/15 07:29*	*06/03/15 18:33*	*1*
2-Fluorophenol (Surr)	*62*		*25 - 120*	*05/27/15 07:29*	*06/03/15 18:33*	*1*
Nitrobenzene-d5 (Surr)	*60*		*27 - 120*	*05/27/15 07:29*	*06/03/15 18:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.58		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Aluminum	**3700**	**F1**	12		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Arsenic	<0.58		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Beryllium	<0.35		0.35		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Cadmium	<0.58		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Chromium	**4.0**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Copper	**1.3**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Nickel	**1.2**		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Lead	**4.0**		0.58		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Antimony	<5.8	F1	5.8		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1
Zinc	**3.1**		2.3		mg/Kg	☼	05/28/15 12:39	05/30/15 13:08	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.017		mg/Kg	☼	05/28/15 09:07	06/02/15 09:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Chlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzidine	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Carbazole	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Chrysene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenzofuran	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Diethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dimethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluorene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobutadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Isophorone	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Naphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Nitrobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pentachlorophenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenanthrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dinoseb	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Terphenyl-d14 (Surr)	*113*		*36 - 134*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 133*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorobiphenyl	*73*		*44 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorophenol (Surr)	*31*		*25 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Nitrobenzene-d5 (Surr)	*31*		*27 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	531	*	ug/Kg		53	58 - 120
1-Methylnaphthalene	1000	861		ug/Kg		86	66 - 120
2,4,5-Trichlorophenol	1000	933		ug/Kg		93	62 - 120
2,4,6-Trichlorophenol	1000	901		ug/Kg		90	59 - 120
2,4-Dichlorophenol	1000	930		ug/Kg		93	67 - 120
2,4-Dimethylphenol	1000	895		ug/Kg		89	65 - 120
2,4-Dinitrophenol	2610	2420		ug/Kg		93	23 - 124
2-Chlorophenol	1000	816		ug/Kg		82	60 - 120
2-Nitrophenol	1000	816		ug/Kg		82	56 - 120
Acenaphthene	1000	883		ug/Kg		88	62 - 120
Acenaphthylene	1000	913		ug/Kg		91	61 - 120
Anthracene	1000	983		ug/Kg		98	68 - 120
Benzo[a]anthracene	1000	958		ug/Kg		96	67 - 120
Benzo[a]pyrene	1000	997		ug/Kg		100	64 - 120
Benzo[b]fluoranthene	1000	1030		ug/Kg		103	58 - 121
Benzo[g,h,i]perylene	1000	833		ug/Kg		83	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	849		ug/Kg		85	60 - 120
Bis(2-chloroethyl)ether	1000	650		ug/Kg		65	55 - 120
Bis(2-ethylhexyl) phthalate	1000	946		ug/Kg		95	59 - 136
Butyl benzyl phthalate	1000	979		ug/Kg		98	55 - 135
Carbazole	1000	1100		ug/Kg		110	69 - 121
Chrysene	1000	923		ug/Kg		92	65 - 120
Di-n-butyl phthalate	1000	1000		ug/Kg		100	67 - 132
Di-n-octyl phthalate	1000	791		ug/Kg		79	58 - 132
Dibenz(a,h)anthracene	1000	848		ug/Kg		85	58 - 130
Dibenzofuran	1000	921		ug/Kg		92	65 - 120
Diethyl phthalate	1000	965		ug/Kg		96	62 - 124
Dimethyl phthalate	1000	949		ug/Kg		95	52 - 123
Fluoranthene	1000	973		ug/Kg		97	67 - 123
Fluorene	1000	976		ug/Kg		98	64 - 120
Hexachlorobenzene	1000	962		ug/Kg		96	57 - 131
Hexachlorobutadiene	1000	698		ug/Kg		70	56 - 120
Hexachlorocyclopentadiene	1000	867		ug/Kg		87	1 - 153
Hexachloroethane	1000	529		ug/Kg		53	53 - 120
Indeno[1,2,3-cd]pyrene	1000	854		ug/Kg		85	55 - 133
Isophorone	1000	847		ug/Kg		85	63 - 120
N-Nitrosodi-n-propylamine	1000	858		ug/Kg		86	34 - 150
N-Nitrosodimethylamine	1000	537		ug/Kg		54	26 - 140
N-Nitrosodiphenylamine	2000	1920		ug/Kg		96	16 - 160
Naphthalene	1000	755		ug/Kg		76	59 - 120
Nitrobenzene	1000	766		ug/Kg		77	53 - 125
Pentachlorophenol	2000	1830		ug/Kg		91	30 - 136
Phenanthrene	1000	953		ug/Kg		95	62 - 130
Phenol	1000	864		ug/Kg		86	54 - 120
Pyrene	1000	1050		ug/Kg		105	57 - 127
1,2,4-Trichlorobenzene	1000	728		ug/Kg		73	62 - 120
1,2-Dichlorobenzene	1000	575	*	ug/Kg		57	58 - 120
2,4-Dinitrotoluene	1000	981		ug/Kg		98	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*37 - 120*
Terphenyl-d14 (Surr)	*107*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*106*		*32 - 133*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*25 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Aluminum	<10		10		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Arsenic	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Beryllium	<0.30		0.30		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Cadmium	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Chromium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Copper	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Nickel	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Lead	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Antimony	<5.0		5.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Selenium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Thallium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Zinc	<2.0		2.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Lab Sample ID: LCS 400-258853/2-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	49.4	51.1		mg/Kg		103	80 - 120
Aluminum	989	1010		mg/Kg		102	80 - 120
Arsenic	98.9	97.5		mg/Kg		99	80 - 120
Beryllium	49.4	50.9		mg/Kg		103	80 - 120
Cadmium	49.4	47.9		mg/Kg		97	80 - 120
Chromium	98.9	101		mg/Kg		102	80 - 120
Copper	98.9	103		mg/Kg		104	80 - 120
Nickel	98.9	96.1		mg/Kg		97	80 - 120
Lead	98.9	97.1		mg/Kg		98	80 - 120
Antimony	98.9	97.8		mg/Kg		99	80 - 120
Selenium	98.9	95.3		mg/Kg		96	80 - 120
Thallium	98.9	97.6		mg/Kg		99	80 - 120
Zinc	98.9	101		mg/Kg		102	80 - 120

Lab Sample ID: 400-105946-1 MS
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: SB-1 0'-4'
Prep Type: Total/NA
Prep Batch: 258853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.58		57.3	57.8		mg/Kg	☼	101	75 - 125
Aluminum	3700	F1	1150	10900	F1	mg/Kg	☼	626	75 - 125
Arsenic	<0.58		115	108		mg/Kg	☼	95	75 - 125
Beryllium	<0.35		57.3	57.2		mg/Kg	☼	100	75 - 125
Cadmium	<0.58		57.3	54.4		mg/Kg	☼	95	75 - 125
Chromium	4.0		115	121		mg/Kg	☼	102	75 - 125
Copper	1.3		115	120		mg/Kg	☼	103	75 - 125
Nickel	1.2		115	117		mg/Kg	☼	101	75 - 125
Lead	4.0		115	120		mg/Kg	☼	101	75 - 125
Antimony	<5.8	F1	115	84.3	F1	mg/Kg	☼	74	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 400-105946-1 MS — **Client Sample ID: SB-1 0'-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259247 — **Prep Batch: 258853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Selenium	<1.2		115	105		mg/Kg	☼	92	75 - 125
Thallium	<1.2		115	112		mg/Kg	☼	98	75 - 125
Zinc	3.1		115	117		mg/Kg	☼	99	75 - 125

Lab Sample ID: 400-105946-1 MSD — **Client Sample ID: SB-1 0'-4'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259247 — **Prep Batch: 258853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	<0.58		56.8	57.4		mg/Kg	☼	101	75 - 125	1	20
Aluminum	3700	F1	1140	10500	F1	mg/Kg	☼	601	75 - 125	3	20
Arsenic	<0.58		114	106		mg/Kg	☼	93	75 - 125	2	20
Beryllium	<0.35		56.8	56.3		mg/Kg	☼	99	75 - 125	2	20
Cadmium	<0.58		56.8	53.1		mg/Kg	☼	93	75 - 125	2	20
Chromium	4.0		114	122		mg/Kg	☼	103	75 - 125	0	20
Copper	1.3		114	114		mg/Kg	☼	99	75 - 125	5	20
Nickel	1.2		114	115		mg/Kg	☼	100	75 - 125	2	20
Lead	4.0		114	117		mg/Kg	☼	100	75 - 125	2	20
Antimony	<5.8	F1	114	81.3	F1	mg/Kg	☼	71	75 - 125	4	20
Selenium	<1.2		114	104		mg/Kg	☼	91	75 - 125	1	20
Thallium	<1.2		114	112		mg/Kg	☼	98	75 - 125	0	20
Zinc	3.1		114	117		mg/Kg	☼	100	75 - 125	0	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-258800/14-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259475 — **Prep Batch: 258800**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		05/28/15 09:07	06/02/15 09:27	1

Lab Sample ID: LCS 400-258800/15-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 259475 — **Prep Batch: 258800**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0670	0.0714		mg/Kg		107	80 - 120

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Irwin Property (Former Rogers)

TestAmerica Job ID: 400-105946-1

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 13:43
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105946-1
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259618	06/03/15 18:33	AJR	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:08	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 09:58	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRON

400-105946 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com	COC No: 400-45621-21847.1
Company: Thompson Engineering Inc			Page: Page 1 of 1
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT		Job #:
City: Mobile	TAT Requested (days): Standard TAT		
State, Zip: AL, 36606			
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required		
Email: mmontgomery@thompsonengineering.com	WO #:		
Project Name: Thompson Engineering	Project #: 40003023		
Site: Irwin Property (Former Rogers)	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
SB-1 0'-4'	5/21/2015	1343	C	Solid	N	N	1	1					2	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:
Relinquished by: Melissa M. Montgomery	Date/Time: 5/21/2015 1447	Company: Thompson Eng.	Received by: Julia Dreyer Lane
Relinquished by:	Date/Time:	Company	Received by:
Relinquished by:	Date/Time:	Company	Received by:

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 400-105946

Cooler Temperature(s) °C and Other Remarks: 4.5° C 5592

Page 12 of 12

6/23/2015

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105946-2
Client Project/Site: Irwin Property (Former Rogers)

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
6/18/2015 3:15:12 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Thompson Engineering Inc
Project/Site: Irwin Property (Former Rogers)

TestAmerica Job ID: 400-105946-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: Thompson Engineering Inc
Project/Site: Irwin Property (Former Rogers)

TestAmerica Job ID: 400-105946-2

Job ID: 400-105946-2

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105946-2

Comments
No additional comments.

Receipt
The sample was received on 5/21/2015 2:47 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

GC/MS VOA
Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 400-258599 recovered above the upper control limit for 1,1-Dichloroethene. The sample associated with this CCV was non-detect for the affected analyte; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for batch preparation batch 400-258656 and analytical batch 400-258599 recovered outside control limits for several analytes. These analytes were biased high in the LCS and were not detected in the associated sample.
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Thompson Engineering Inc
Project/Site: Irwin Property (Former Rogers)

TestAmerica Job ID: 400-105946-2

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 13:43
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105946-1
Matrix: Solid
Percent Solids: 84.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,1,2,2-Tetrachloroethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,1,2-Trichloroethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,1-Dichloroethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,1-Dichloroethene	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,2-Dichlorobenzene	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,2-Dichloroethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,2-Dichloropropane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,3-Dichlorobenzene	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
1,4-Dichlorobenzene	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
2-Hexanone	<28		28		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Acetone	<28		28		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Benzene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Bromoform	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Bromomethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Carbon disulfide	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Carbon tetrachloride	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Chlorobenzene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Chlorodibromomethane	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Chloroethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Chloroform	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Chloromethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
cis-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
cis-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Dichlorobromomethane	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Ethylbenzene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
m-Xylene & p-Xylene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
2-Butanone (MEK)	<28		28		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Methylene Chloride	<17		17		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
o-Xylene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Styrene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Tetrachloroethene	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Toluene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
trans-1,2-Dichloroethene	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
trans-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Trichloroethene	<5.6	*	5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Vinyl chloride	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1
Xylenes, Total	<5.6		5.6		ug/Kg	☼	05/27/15 10:15	05/27/15 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*86*		*72 - 122*	*05/27/15 10:15*	*05/27/15 17:11*	*1*
Dibromofluoromethane	*110*		*79 - 123*	*05/27/15 10:15*	*05/27/15 17:11*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*05/27/15 10:15*	*05/27/15 17:11*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258656/1-A
Matrix: Solid
Analysis Batch: 258599

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258656

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
2-Hexanone	<25		25		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Acetone	<25		25		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Benzene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Bromoform	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Bromomethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Carbon disulfide	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Chlorobenzene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Chloroethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Chloroform	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Chloromethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Ethylbenzene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
2-Butanone (MEK)	<25		25		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Methylene Chloride	<15		15		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
o-Xylene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Styrene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Tetrachloroethene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Toluene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Trichloroethene	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Vinyl chloride	<5.0		5.0		ug/Kg		05/27/15 10:15	05/27/15 11:16	1
Xylenes, Total	<10		10		ug/Kg		05/27/15 10:15	05/27/15 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*85*		*72 - 122*	*05/27/15 10:15*	*05/27/15 11:16*	*1*
Dibromofluoromethane	*109*		*79 - 123*	*05/27/15 10:15*	*05/27/15 11:16*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*05/27/15 10:15*	*05/27/15 11:16*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258656/2-A
Matrix: Solid
Analysis Batch: 258599

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258656

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	54.3		ug/Kg		109	72 - 121
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/Kg		108	67 - 120
1,1,2-Trichloroethane	50.0	54.9		ug/Kg		110	75 - 118
1,1-Dichloroethane	50.0	61.7		ug/Kg		123	61 - 128
1,1-Dichloroethene	50.0	69.8	*	ug/Kg		140	62 - 130
1,2-Dichlorobenzene	50.0	65.8	*	ug/Kg		132	76 - 120
1,2-Dichloroethane	50.0	51.0		ug/Kg		102	70 - 125
1,2-Dichloropropane	50.0	51.2		ug/Kg		102	64 - 129
1,3-Dichlorobenzene	50.0	62.6	*	ug/Kg		125	78 - 118
1,4-Dichlorobenzene	50.0	61.9	*	ug/Kg		124	77 - 118
2-Hexanone	200	196		ug/Kg		98	54 - 140
Acetone	200	255		ug/Kg		128	43 - 150
Benzene	50.0	49.8		ug/Kg		100	74 - 119
Bromoform	50.0	66.3	*	ug/Kg		133	54 - 125
Bromomethane	50.0	32.7		ug/Kg		65	25 - 150
Carbon disulfide	50.0	69.1		ug/Kg		138	26 - 150
Carbon tetrachloride	50.0	45.0		ug/Kg		90	70 - 128
Chlorobenzene	50.0	57.5		ug/Kg		115	80 - 116
Chlorodibromomethane	50.0	66.8	*	ug/Kg		134	65 - 131
Chloroethane	50.0	48.3		ug/Kg		97	22 - 150
Chloroform	50.0	54.6		ug/Kg		109	74 - 119
Chloromethane	50.0	59.9		ug/Kg		120	36 - 147
cis-1,2-Dichloroethene	50.0	49.1		ug/Kg		98	68 - 126
cis-1,3-Dichloropropene	50.0	56.7		ug/Kg		113	68 - 125
Dichlorobromomethane	50.0	55.5		ug/Kg		111	68 - 128
Ethylbenzene	50.0	55.0		ug/Kg		110	78 - 120
m-Xylene & p-Xylene	50.0	52.4		ug/Kg		105	70 - 120
2-Butanone (MEK)	200	192		ug/Kg		96	62 - 126
4-Methyl-2-pentanone (MIBK)	200	204		ug/Kg		102	56 - 137
Methylene Chloride	50.0	70.3		ug/Kg		141	45 - 150
o-Xylene	50.0	53.0		ug/Kg		106	70 - 120
Styrene	50.0	56.5		ug/Kg		113	66 - 132
Tetrachloroethene	50.0	63.5	*	ug/Kg		127	74 - 126
Toluene	50.0	53.9		ug/Kg		108	76 - 120
trans-1,2-Dichloroethene	50.0	74.1	*	ug/Kg		148	65 - 130
trans-1,3-Dichloropropene	50.0	51.4		ug/Kg		103	65 - 126
Trichloroethene	50.0	63.7	*	ug/Kg		127	76 - 122
Vinyl chloride	50.0	53.4		ug/Kg		107	52 - 134
Xylenes, Total	100	105		ug/Kg		105	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*86*		*72 - 122*
Dibromofluoromethane	*116*		*79 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Irwin Property (Former Rogers)

TestAmerica Job ID: 400-105946-2

Client Sample ID: SB-1 0'-4'
Date Collected: 05/21/15 13:43
Date Received: 05/21/15 14:47

Lab Sample ID: 400-105946-1
Matrix: Solid
Percent Solids: 84.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			258656	05/27/15 10:15	BKM	TAL PEN
Total/NA	Analysis	8260B		1	258599	05/27/15 17:11	CAR	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRON

400-105946 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 1
Company: Thompson Engineering Inc				Job #:

Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT
City: Mobile	TAT Requested (days): Standard TAT
State, Zip: AL, 36606	
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required
Email: mmontgomery@thompsonengineering.com	WO #:
Project Name: Thompson Engineering	Project #: 40003023
Site: Irwin Property (Former Rogers)	SSOW#:

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	A	N	D	N		
SB-1 0'-4'	5/21/2015	1343	C	Solid	N	N	1	1					2	
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										
				Solid										

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Melissa M. Montgomery	5/21/2015 1447	Thompson Eng.	Julia Dreyer	5/21/15 1447	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No | Custody Seal No.: 400-105946 | Cooler Temperature(s) °C and Other Remarks: 4.5° C 5592

HARDEE PROPERTY

1.1 Project Background

The site is located at 363 Conception Street in Mobile, Alabama (Figures 1 and 2, Appendix A). The property is currently used as a vehicle tow and junk yard. A cell tower is located within the center of the property. Past uses of the site are unknown. The western portion of the site including the cell tower is located within the proposed I-10 Mobile River bridge project limits. Surface elevations at the project site are approximately 8 to 12 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on May 21, 2015. Three borings (B-1/TW-1 and SB-1 and SB-2) were advanced on-site via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 8 feet below ground surface (bgs) in soil borings SB-1 and SB-2 and to approximately 12 feet bgs in boring B-1/TW-1 by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from each boring from the ground surface to the top of the water table at approximately 5 to 7 feet bgs. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8082A), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, boring B-1 was advanced an additional four feet into the water table and temporary 1-inch diameter piezometer (TW-1) was installed with five feet of 1-inch diameter schedule 40 PVC with 0.010 inch slotted screen. Following temporary well installation, groundwater samples were collected with the use of a peristaltic pump after first developing and purging the well. During well development and purging, pH, temperature, specific conductivity, dissolved oxygen, and turbidity were collected after

each well volume and measurements were recorded in a bound field log book. The well was purged until the field parameters stabilized. The final well volume field measurements are included in Appendix B.

Groundwater samples were collected in appropriate laboratory supplied containers. After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the COC and the containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Groundwater samples were submitted to the laboratory to be analyzed for the following chemical analyses: VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), PCBs (EPA Method 8082A), and metals (EPA Methods 6010B/7470A).

Upon completion of groundwater sampling procedures, the temporary well was removed from the subsurface and all soil boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of sand. Soil boring logs and temporary well construction details are presented in Appendix C.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, PCBs, and metals for soil and groundwater is included in Appendix D (Log No.: 400-105952-1). The soil analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBs in all three soil samples collected. Chromium, lead, nickel, and zinc were reported in all three soil samples collected but at levels below the ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). Aluminum and arsenic were reported in soil boring SB-1 at levels above their respective residential PSVs and RSLs but below their respective commercial/industrial PSVs and RSLs. Aluminum was also reported in boring B-1 and soil boring SB-2 but at concentrations below the ADEM PSVs and EPA RSLs. Copper and mercury were reported in boring B-1 and soil boring SB-1 but at levels below their respective ADEM PSVs and EPA RSLs. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

The groundwater analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBs in the groundwater sample collected. Lead was reported in the groundwater sample from TW-1 but at a concentration below the ADEM PSV and the EPA Maximum Contaminant Level (MCL). The groundwater analytical results compared to the ADEM PSVs and EPA RSLs or MCLs (if available) are provided in Table 2.

1.4 Conclusions

- Detectable concentrations of chromium, copper, lead, mercury, nickel, and zinc were reported in one or more soil samples collected but at levels below their respective ADEM and EPA regulatory screening values.

- Detectable concentrations of aluminum were reported in all three soil samples collected. The aluminum concentration in soil boring SB-1 exceeded the residential ADEM PSV of 7,600 milligrams per kilogram (mg/kg) and the residential EPA RSL of 7,700 mg/kg; however, the reported concentration was below the industrial/commercial ADEM and EPA regulatory screening values. The United States Geological Survey (USGS) has reported an average concentration of aluminum for the conterminous United States as 72,000 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States; however, for Mobile County, aluminum values are determined on a percent by weight basis.

- The detectable concentration of arsenic in soil boring SB-1 at 1.6 mg/kg is above the EPA and ADEM regulatory screening values for residential soils. The United States Geological Survey (USGS) has reported an average concentration of arsenic for the conterminous United States as 7.2 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Groundwater was encountered at 5 to 7 feet below ground surface. Detectable concentrations of lead were reported in all seven groundwater samples collected but only exceeded ADEM and EPA regulatory screening values in temporary wells TW-5 and TW-7. Chromium, copper, nickel, and zinc were also reported in temporary wells TW-5 and TW-7; however only nickel and zinc in temporary well TW-5 exceeded EPA and ADEM regulatory screening values.

1.5 Recommendations

Based on review of the analytical results of the soil samples collected on May 21, 2015, Arsenic in soil has detectable concentrations above ADEM and EPA commercial/industrial regulatory screening values. The detected arsenic values in soil are within the range historically reported in Mobile County, Alabama. It is Thompson Engineering's opinion that no further investigation activities are required at this time.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
Hardee Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID		
							B-1 0'-7'	SB-1 0'-6'	SB-2 0'-5'
Volatile Organics GC/MS									
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0065	<0.0064	<0.0054
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0065	<0.0064	<0.0054
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0065	<0.0064	<0.0054
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0065	<0.0064	<0.0054
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0065	<0.0064	<0.0054
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0065	<0.0064	<0.0054
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0065	<0.0064	<0.0054
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0065	<0.0064	<0.0054
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0065	<0.0064	<0.0054
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0065	<0.0064	<0.0054
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.032	<0.032	<0.027
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<0.032	<0.032	<0.027
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0065	<0.0064	<0.0054
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0065	<0.0064	<0.0054
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0065	<0.0064	<0.0054
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0065	<0.0064	<0.0054
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0065	<0.0064	<0.0054
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0065	<0.0064	<0.0054
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0065	<0.0064	<0.0054
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0065	<0.0064	<0.0054
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0065	<0.0064	<0.0054
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0065	<0.0064	<0.0054
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0065	<0.0064	<0.0054
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0065	<0.0064	<0.0054
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0065	<0.0064	<0.0054
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0065	<0.0064	<0.0054
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0065	<0.0064	<0.0054
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.032	<0.032	<0.027
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.032	<0.032	<0.027
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.019	<0.019	<0.016
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0065	<0.0064	<0.0054
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0065	<0.0064	<0.0054
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0065	<0.0064	<0.0054
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0065	<0.0064	<0.0054
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0065	<0.0064	<0.0054
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0065	<0.0064	<0.0054
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0065	<0.0064	<0.0054
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0065	<0.0064	<0.0054
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.0065	<0.0064	<0.0054

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
Hardee Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID		
							B-1 0'-7'	SB-1 0'-6'	SB-2 0'-5'
Semivolatile Organics									
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.400	<0.380	<0.390
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.400	<0.380	<0.390
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.400	<0.380	<0.390
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.380	<0.390
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.400	<0.380	<0.390
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.380	<0.390
Benzo[g,h,i]perylene	191-24-2	mg/kg	None	None	228	4950	<0.400	<0.380	<0.390
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.400	<0.380	<0.390
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.400	<0.380	<0.390
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.400	<0.380	<0.390
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.400	<0.380	<0.390
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.400	<0.380	<0.390
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.400	<0.380	<0.390
1-Methylnapthalene	90-12-0	mg/kg	18	73	None	None	<0.400	<0.380	<0.390
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.400	<0.380	<0.390
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.400	<0.380	<0.390
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.400	<0.380	<0.390
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.400	<0.380	<0.390
Benzidine	92-87-5	mg/kg	0.00052	0.01	0.0021	0.0075	<1.2	<1.2	<1.2
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.400	<0.380	<0.390
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.400	<0.380	<0.390
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.400	<0.380	<0.390
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.400	<0.380	<0.390
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.400	<0.380	<0.390
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.400	<0.380	<0.390
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.400	<0.380	<0.390
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.400	<0.380	<0.390
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.400	<0.380	<0.390
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.400	<0.380	<0.390
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.400	<0.380	<0.390
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.400	<0.380	<0.390
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.400	<0.380	<0.390
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.400	<0.380	<0.390
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.400	<0.380	<0.390
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.400	<0.380	<0.390
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.400	<0.380	<0.390
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.400	<0.380	<0.390
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.400	<0.380	<0.390
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.400	<0.380	<0.390
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.400	<0.380	<0.390
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.400	<0.380	<0.390
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.400	<0.380	<0.390
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.400	<0.380	<0.390
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.400	<0.380	<0.390
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.400	<0.380	<0.390
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.810	<0.770	<0.770
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.400	<0.380	<0.390
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.400	<0.380	<0.390
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.810	<0.770	<0.770
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.400	<0.380	<0.390
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.400	<0.380	<0.390
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.400	<0.380	<0.390
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.2	<1.2	<1.2
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.400	<0.380	<0.390
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.400	<0.380	<0.390
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.400	<0.380	<0.390
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.400	<0.380	<0.390
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.400	<0.380	<0.390
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.400	<0.380	<0.390
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.400	<0.380	<0.390
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.400	<0.380	<0.390
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.400	<0.380	<0.390
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.400*	<0.380*	<0.390*
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.400*	<0.380*	<0.390*
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.400*	<0.380*	<0.390*

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

*= LCS or LCSD is outside acceptance limits.

Table 1c
Soil Analytical Results
PCB Arochlors
Hardee Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID		
							B-1 0'-7'	SB-1 0'-6'	SB-2 0'-5'
PCB Arochlors									
PCB-1016	12674-11-2	mg/kg	0.41	5.1	0.39	21	<0.010	<0.0099	<0.0099
PCB-1221	11104-28-2	mg/kg	0.20	0.83	0.22	0.74	<0.010	<0.0099	<0.0099
PCB-1232	11141-16-5	mg/kg	0.17	0.72	0.22	0.74	<0.010	<0.0099	<0.0099
PCB-1242	53469-21-9	mg/kg	0.23	0.95	0.22	0.74	<0.010	<0.0099	<0.0099
PCB-1248	12672-29-6	mg/kg	0.23	0.95	0.22	0.74	<0.010	<0.0099	<0.0099
PCB-1254	11097-69-1	mg/kg	0.12	0.97	0.22	0.74	<0.010	<0.0099	<0.0099
PCB-1260	11096-82-5	mg/kg	0.24	0.99	0.22	0.74	<0.010	<0.0099	<0.0099

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil
(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil
(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.
(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.
mg/kg indicates milligrams per kilogram.

Table 1d
Soil Analytical Results
Metals
Hardee Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID		
							B-1 0'-7'	SB-1 0'-6'	SB-2 0'-5'
Metals									
Aluminum	7429-90-5	mg/kg	7,700	110,000	7,600	100,000	7,400	**8,400**	4,600
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<6.0	<5.4	<5.6
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	<0.60	**1.6**	<0.56
Beryllium	7440-41-7	mg/kg	16	230	15	190	<0.36	<0.33	<0.33
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.60	<0.54	<0.56
Chromium	7440-47-3	mg/kg	None	None	30	64	5.7	6.8	3.7
Copper	7440-50-8	mg/kg	310	4,700	310	4,100	1.9	2.2	<1.1
Lead	7439-92-1	mg/kg	400	800	400	800	6.0	12	2.8
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	0.02	0.041	<0.018
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	2.4	2.3	1.3
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.2	<1.1	<1.1
Silver	7440-22-4	mg/kg	39	580	39	510	<0.60	<0.54	<0.56
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.2	<1.1	<1.1
Zinc	7440-66-6	mg/kg	2,300	35,000	2,300	100,000	5.4	12	3.0

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) EPA Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008.

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008.

mg/kg indicates milligrams per kilogram.

Bold and shaded values indicates concentration exceeds screening level.

Table 2a
Groundwater Analytical Results
Volatile Organic Compounds
Hardee Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Volatile Organics GC/MS					
1,1,1-Trichloroethane	71-55-6	ug/L	200[3]	200	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.076	0.055	<1.0
1,1,2-Trichloroethane	79-00-5	ug/L	5[3]	5	<5.0
1,1-Dichloroethane	75-34-3	ug/L	2.8	81	<1.0
1,1-Dichloroethene	75-35-4	ug/L	7[3]	7	<1.0
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<1.0
1,2-Dichloroethane	107-06-2	ug/L	5[3]	5	<1.0
1,2-Dichloropropane	78-87-5	ug/L	5[3]	5	<1.0
1,3-Dichlorobenzene	541-73-1	ug/L	None	18	<1.0
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<1.0
2-Hexanone	591-78-6	ug/L	3.8[3]	None	<25
Acetone	67-64-1	ug/L	1400	550	<25
Benzene	71-43-2	ug/L	5[3]	5	<1.0
Bromoform	75-25-2	ug/L	80[3]	80	<5.0
Bromomethane	74-83-9	ug/L	0.75	0.87	<1.0
Carbon disulfide	75-15-0	ug/L	81	100	<1.0
Carbon tetrachloride	56-23-5	ug/L	5[3]	5	<1.0
Chlorobenzene	108-90-7	ug/L	100[3]	100	<1.0
Chlorodibromomethane	124-48-1	ug/L	80[3]	None	<1.0
Chloroethane	75-00-3	ug/L	2100	4.6	<1.0
Chloroform	67-66-3	ug/L	80[3]	80	<1.0
Chloromethane	74-87-3	ug/L	19	1.6	<1.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70[3]	70	<1.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0
Dichlorobromomethane	75-27-4	ug/L	80[3]	None	<1.0
Ethylbenzene	100-41-4	ug/L	700[3]	700	<1.0
m-Xylene & p-Xylene	1330-20-7	ug/L	10000[3]	10000	<5.0
2-Butanone (MEK)	78-93-3	ug/L	560	700	<25
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	630	200	<25
Methylene chloride	75-09-2	ug/L	5.0[3]	5	<5.0
o-Xylene	95-47-6	ug/L	19	19	<5.0
Styrene	100-42-5	ug/L	100[3]	100	<1.0
Tetrachloroethene	127-18-4	ug/L	5.0[3]	5	<1.0
Toluene	108-88-3	ug/L	100[3]	1000	<1.0
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100[3]	100	<1.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0
Trichloroethene (TCE)	79-01-6	ug/L	5.0[3]	5	<1.0
Vinyl chloride	75-01-4	ug/L	2.0[3]	2	<1.0
Xylenes (Total)	1330-20-7	ug/L	10000[3]	10000	<1.0

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.

Table 2b
Groundwater Analytical Results
Semi-Volatile Organic Compounds
Hardee Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Semivolatile Organics					
Acenaphthene	83-32-9	ug/L	53	37	<11
Acenaphthylene	208-96-8	ug/L	None	93.9	<11
Anthracene	120-12-7	ug/L	180	180	<11
Benzidine	92-87-5	ug/L	0.0001	0.00029	<28*
Benzo(a)anthracene	56-55-3	ug/L	0.012	0.092	<11
Benzo(a)pyrene	50-32-8	ug/L	0.2[3]	0.2	<11
Benzo(b)fluoranthene	205-99-2	ug/L	0.034	0.092	<11
Benzo(g,h,i)perylene	191-24-2	ug/L	None	46.9	<11
Benzo(k)fluoranthene	207-08-9	ug/L	0.34	0.92	<11
bis(2-chloroethoxy)methane	111-91-1	ug/L	5.9	46	<11
bis(2-chloroethyl)ether	111-44-4	ug/L	0.014	None	<11
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0[3]	6.0	<11
4-Bromophenyl phenyl ether	101-55-3	ug/L	None	None	<11
Butyl benzyl phthalate	85-68-7	ug/L	16	730	<11
Carbazole	86-74-8	ug/L	None	3.4	<11
4-Chloroaniline	106-47-8	ug/L	0.37	15	<11
4-Chloro-3-methylphenol	59-50-7	ug/L	140	None	<11
2-Chlorophenol	95-57-8	ug/L	9.1	3	<11
4-Chlorophenyl phenyl ether	7005-72-3	ug/L	None	None	<11
Chrysene	218-01-9	ug/L	3.4	9.2	<11
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0034	0.0092	<11
Dibenzofuran	132-64-9	ug/L	0.79	1.2	<11
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.13	0.15	<11
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<11
1,3-Dichlorobenzene	541-73-1	ug/L	None	None	<11
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<11
2,4-Dichlorophenol	120-83-2	ug/L	4.6	11	<11
Diethyl phthalate	84-66-2	ug/L	1500	2900	<11
2,4-Dimethylphenol	105-67-9	ug/L	36	73	<11
Dimthyl phthalate	131-11-3	ug/L	None	36000	<11
Di-n-butyl phthalate	84-74-2	ug/L	90	360	<11
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	0.15	None	<11
2,4-Dinitrophenol	51-28-5	ug/L	3.9	7.3	<33
2,4-Dinitrotoluene	121-14-2	ug/L	0.24	7.3	<11
2,6-Dinitrotoluene	606-20-2	ug/L	0.049	3.6	<11
Di-n-octyl phthalate	117-84-0	ug/L	20	150	<11
Dinoseb[2]	88-85-7	ug/L	7.0[3]	None	<11
Fluoranthene	206-44-0	ug/L	80	150	<11
Fluorene	86-73-7	ug/L	29	24	<11
Hexachlorobenzene	118-74-1	ug/L	1.0[3]	1	<11
Hexachlorobutadiene	87-68-3	ug/L	0.14	0.86	<11
Hexachlorocyclopentadiene	77-47-4	ug/L	50[3]	50	<22
Hexachloroethane	67-72-1	ug/L	0.33	4.8	<11
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.034	0.092	<11
Isophorone	78-59-1	ug/L	78	71	<11
1-Methylnaphthalene	90-12-0	ug/L	1.1[3]	None	<11
2-Methylnaphthalene	91-57-6	ug/L	3.6	6.26	<11
2-Methylphenol	95-48-7	ug/L	93	180	<11
3 & 4 Methylphenol	106-44-5	ug/L	190	18	<11
Naphthalene	91-20-3	ug/L	0.17	0.62	<11
2-Nitroaniline	88-74-4	ug/L	19	11	<11
4-Nitroaniline	100-01-6	ug/L	3.8	None	<11
Nitrobenzene	98-95-3	ug/L	0.14	0.34	<11
2-Nitrophenol	88-75-5	ug/L	None	None	<11
4-Nitrophenol	100-02-7	ug/L	None	12.5	<11*
N-Nitrosodimethylamine	62-75-9	ug/L	0.00011	0.0013	<11
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.011	0.0096	<11
N-Nitrosodiphenylamine	86-30-6	ug/L	12	14	<11
Pentachlorophenol	87-86-5	ug/L	1.0[3]	1.0	<22
Phenanthrene	85-01-8	ug/L	None	46.9	<11
Phenol	108-95-2	ug/L	580	1100	<11
Pyrene	129-00-0	ug/L	12	18	<11
1,2,4-Trichlorobenzene	120-82-1	ug/L	7.0[3]	70.0	<11
2,4,5-Trichlorophenol	95-95-4	ug/L	120	360	<11
2,4,6-Trichlorophenol	88-06-2	ug/L	1.2	0.36	<11

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.
* = RPD of the LCS and LCSD exceeds the control limits.

Table 2c
Groundwater Analytical Results
PCB Arochlors
Hardee Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID
					TW-1
PCB Arochlors					
PCB-1016	12674-11-2	ug/L	0.14	0.96	<0.53
PCB-1221	11104-28-2	ug/L	0.0047	0.034	<0.53
PCB-1232	1141-16-5	ug/L	0.0047	0.034	<0.53
PCB-1242	53469-21-9	ug/L	0.0078	0.034	<0.53
PCB-1248	12672-29-6	ug/L	0.0078	0.034	<0.53
PCB-1254	11097-69-1	ug/L	0.0078	0.034	<0.53
PCB-1260	11096-82-5	ug/L	0.0078	0.034	<0.53

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
ug/L indicates micrograms per liter.

Table 2d
Groundwater Analytical Results
Metals
Hardee Property
Preliminary Investigation
15-1101-0043

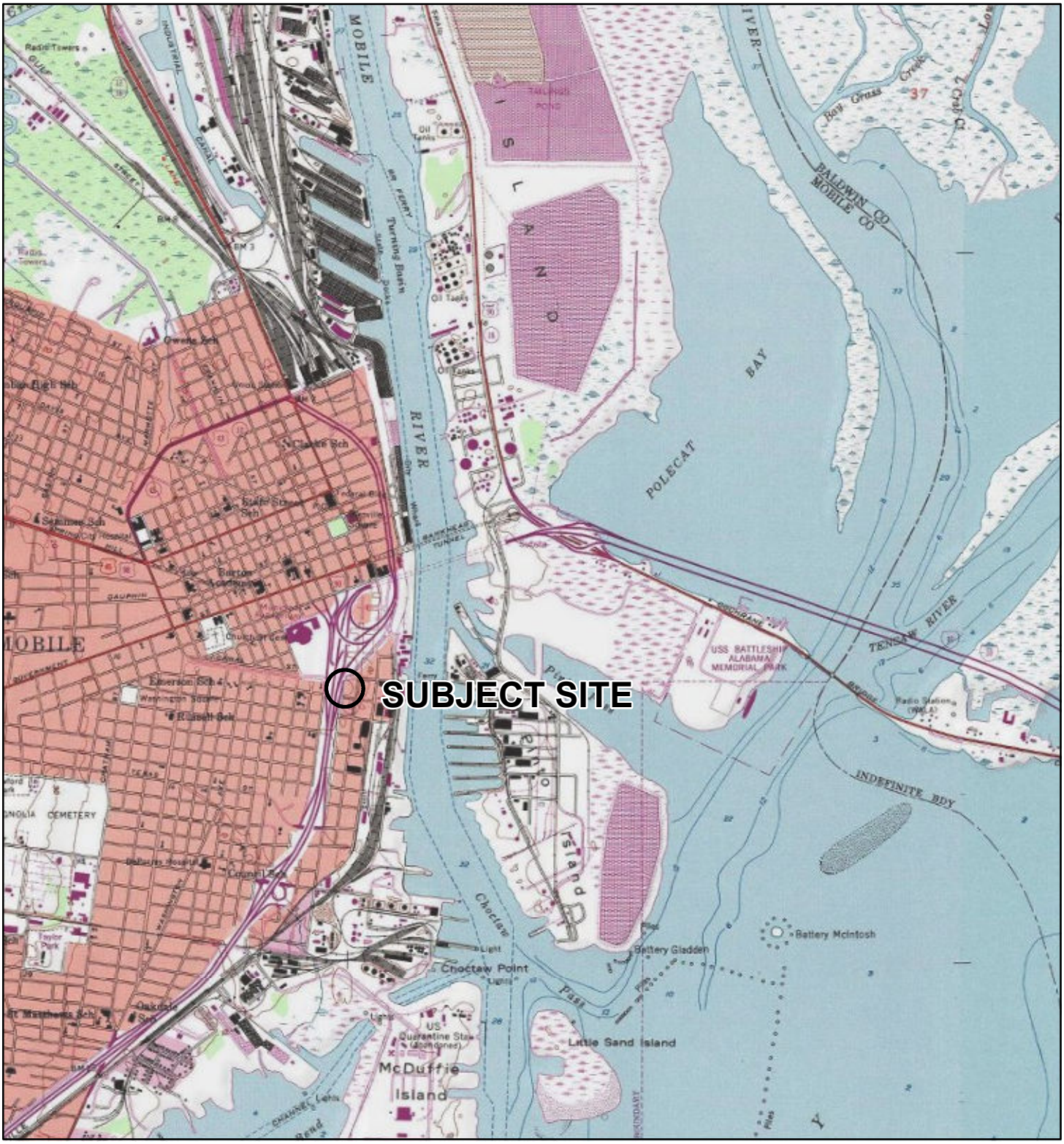
CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Metals					
Antimony	7440-36-0	mg/L	0.006[3]	0.006	<0.050
Arsenic	7440-38-2	mg/L	0.01[3]	0.01	<0.0050
Beryllium	7440-41-7	mg/L	0.004[3]	0.004	<0.0030
Cadmium	7440-43-9	mg/L	0.005[3]	0.005	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.1[3]	0.10	<0.010
Copper	7440-50-8	mg/L	1.3[3]	1.30	<0.010
Lead	7439-92-1	mg/L	0.015[3]	0.015	0.0081
Mercury	7487-94-7	mg/L	0.002[3]	0.002	<0.20
Nickel	7440-02-0	mg/L	0.039	0.1	<0.0050
Selenium	7782-49-2	mg/L	0.005[3]	0.005	<0.010
Silver	7440-22-4	mg/L	0.0094	0.0018	<0.0050
Thallium	7440-28-0	mg/L	0.002[3]	0.002	<0.010
Zinc	7440-66-6	mg/L	0.6	1.1	<0.020

The data presented is a summary of the results of samples collected on May 21, 2015. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
mg/L indicates milligrams per liter.

APPENDIX A

HARDEE PROPERTY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

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ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 1
SITE VICINITY MAP
HARDEE PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

Parcel Line*

Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

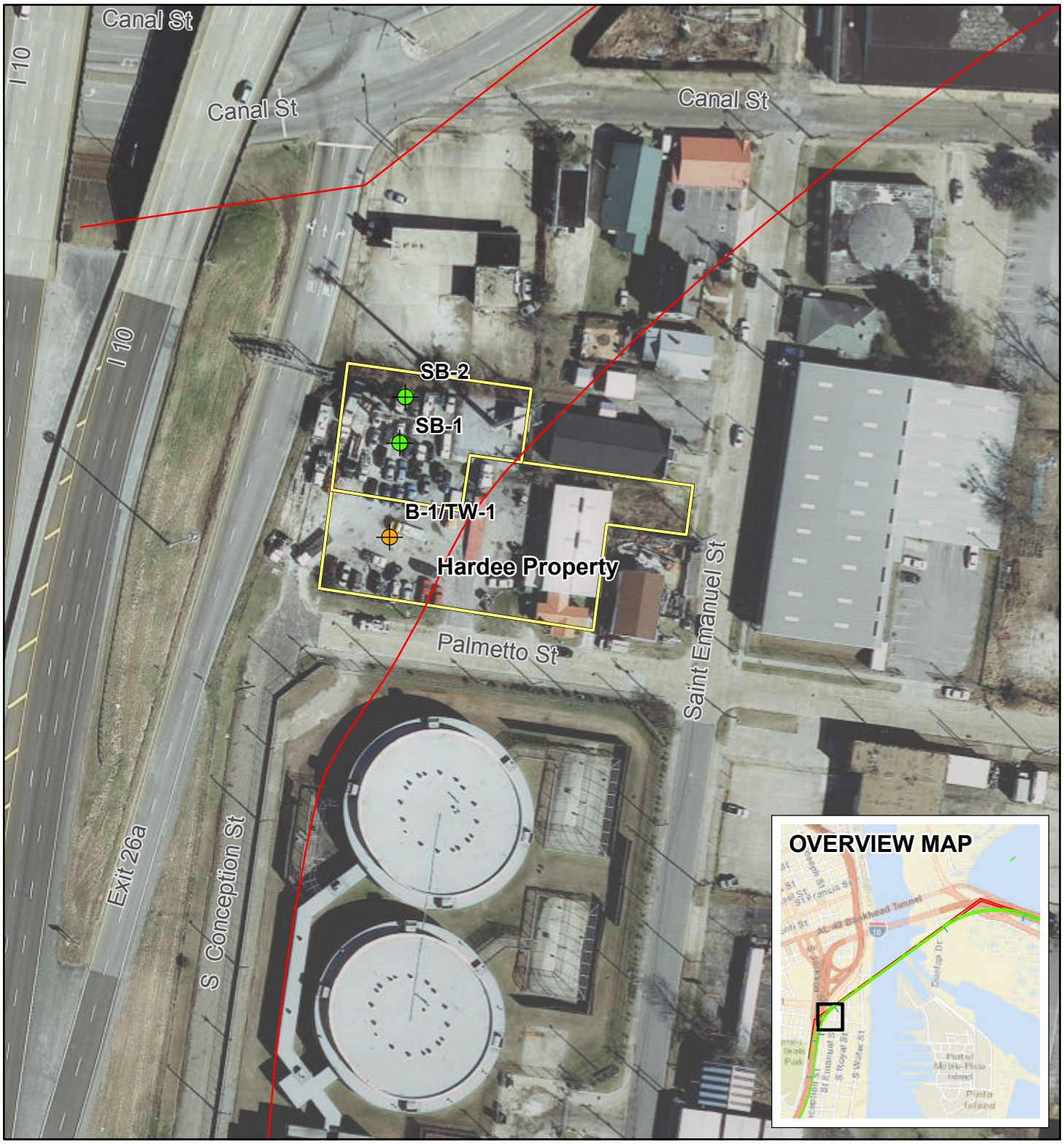
ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 2
AERIAL PHOTOGRAPH
HARDEE PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-101\115-1101-0043 ALDOT - Mobile River Bridge - SO\hearn\GIS\MXD\HARDEE_FIG3.mxd



LEGEND

- Soil Boring (SB)
- Boring /Temporary Well (B/TW)
- Parcel Line*
- Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1Ft. Resolution
*Mobile Revenue Commission Parcel Data - May 2016 - NOT A SURVEY
- Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
HARDEE PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-1101\15-1101-0043 ALDOT - Mobile River Bridge - SO\hearn\GIS\MXD\HARDEE_FIG3.mxd

APPENDIX B

HARDEE PROPERTY
GROUNDWATER FIELD PARAMETER DATA

PROJECT NO.: 15-1101-0043

Groundwater Field Parameter Data

Hardee Property
Preliminary Investigation
15-1101-0043

Well I.D.	Total Depth (feet)	Depth to Water Level (feet)	Well Volume (gallon)	Volume Evacuated (gallon)	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	12.8	5.25	0.31	1.55	5.2	26.5	0.239	3.03	56.8

Notes:
1. Measurements presented are the final well volume.
2. Total depth and depth to water level are measured from top of well casing.
3. S.U. - Standard Units
4. oC - Degrees Celcius
5. uS - micro Siemens per Centimeter
6. mg/L-milligrams per liter
7. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

APPENDIX C

HARDEE PROPERTY
SOIL BORING LOGS AND
TEMPORARY WELL CONSTRUCTION DDETAILS

PROJECT NO.: 15-1101-0043

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 21, 2015 **GR. WATER DEPTH:** 7 ft. bgs

BORING NO.: B-1/TW-1 **LOCATION:** Hardee Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		GRAVEL	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake): Flush-threaded joints with bottom cap.		
		Red fine SAND (FILL)			
		Brown and gray fine SAND			
5		saturated			
10		B.T. @ 12 ft bgs			
15					
20					
25					
30					
35					

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AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 21, 2015 **GR. WATER DEPTH:** 3.5 ft. bgs

BORING NO.: SB-1 **LOCATION:** Hardee Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		GRAVEL
		Black fine SAND
		Light gray fine SAND
5		saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

thompson ENGINEERING

AASHTO R18

SOIL BORING LOG

CLIENT: Alabama Department of Transportation

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

GROUND ELEVATION: N/A

JOB NO.: 15-1101-0043 **DATE DRILLED:** May 21, 2015 **GR. WATER DEPTH:** 3.5 ft. bgs

BORING NO.: SB-2 **LOCATION:** Hardee Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION
0		Black fine SAND
		Light gray fine SAND
5		saturated
		B.T. @ 8 ft bgs
10		
15		
20		
25		
30		
35		

APPENDIX D

HARDEE PROPERTY
LABORATORY ANALYTICAL DATA
WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-105952-1
Client Project/Site: Hardee Property

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Mr. Steve O'Hearn

Authorized for release by:
6/9/2015 5:27:28 PM

Mike Nance, Service Center Manager
(251)666-6633
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Thompson Engineering Inc
Project/Site: Hardee Property

TestAmerica Job ID: 400-105952-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client: Thompson Engineering Inc
Project/Site: Hardee Property

TestAmerica Job ID: 400-105952-1

Job ID: 400-105952-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-105952-1

Comments
No additional comments.

Receipt
The samples were received on 5/21/2015 3:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.1º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 258628 recovered outside control limits for the flagged analytes.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259419 recovered outside acceptance criteria, low biased, for Bis(2-chloroethyl)ether, Benzo[g,h,i]perylene, Di-n-octyl phthalate, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCS associated with preparation batch 400-258556 and analytical batch 400-259419: 1,3-Dichlorobenzene, 1,4-Dichlorobenzene and 1,2-Dichlorobenzene. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-259618 recovered outside acceptance criteria, low biased, for 4,6-Dinitro-2-methylphenol, 4-Nitrophenol and Dinoseb. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: B-1 0'-7'
Date Collected: 05/21/15 12:34
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-1
Matrix: Solid
Percent Solids: 80.9

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,1,2,2-Tetrachloroethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,1,2-Trichloroethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,1-Dichloroethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,1-Dichloroethene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,2-Dichlorobenzene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,2-Dichloroethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,2-Dichloropropane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,3-Dichlorobenzene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
1,4-Dichlorobenzene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
2-Hexanone	<32		32		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Acetone	<32		32		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Benzene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Bromoform	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Bromomethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Carbon disulfide	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Carbon tetrachloride	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Chlorobenzene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Chlorodibromomethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Chloroethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Chloroform	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Chloromethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
cis-1,2-Dichloroethene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
cis-1,3-Dichloropropene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Dichlorobromomethane	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Ethylbenzene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
m-Xylene & p-Xylene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
2-Butanone (MEK)	<32		32		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
4-Methyl-2-pentanone (MIBK)	<32		32		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Methylene Chloride	<19		19		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
o-Xylene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Styrene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Tetrachloroethene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Toluene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
trans-1,2-Dichloroethene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
trans-1,3-Dichloropropene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Trichloroethene	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Vinyl chloride	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1
Xylenes, Total	<6.5		6.5		ug/Kg	☼	06/02/15 11:57	06/02/15 21:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*06/02/15 11:57*	*06/02/15 21:53*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 21:53*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*	*06/02/15 11:57*	*06/02/15 21:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
1,4-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1

Client: Thompson Engineering Inc
Project/Site: Hardee Property

TestAmerica Job ID: 400-105952-1

Client Sample ID: B-1 0'-7'
Date Collected: 05/21/15 12:34
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-1
Matrix: Solid
Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2-Chlorophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2-Methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
3 & 4 Methylphenol	<810		810		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
3,3'-Dichlorobenzidine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
4,6-Dinitro-2-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
4-Chloroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
4-Nitroaniline	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
4-Nitrophenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Acenaphthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Acenaphthylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Carbazole	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Chrysene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Dibenzofuran	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Diethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Dimethyl phthalate	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Fluoranthene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Fluorene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Hexachlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Hexachloroethane	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Isophorone	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1

Client Sample ID: B-1 0'-7'
Date Collected: 05/21/15 12:34
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-1
Matrix: Solid
Percent Solids: 80.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Naphthalene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Nitrobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Pentachlorophenol	<810		810		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Phenanthrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Phenol	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Pyrene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
1,2-Dichlorobenzene	<400	*	400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1
Dinoseb	<400		400		ug/Kg	☼	05/27/15 07:29	06/03/15 19:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*72*		*37 - 120*	*05/27/15 07:29*	*06/03/15 19:11*	*1*
Terphenyl-d14 (Surr)	*104*		*36 - 134*	*05/27/15 07:29*	*06/03/15 19:11*	*1*
2,4,6-Tribromophenol (Surr)	*59*		*32 - 133*	*05/27/15 07:29*	*06/03/15 19:11*	*1*
2-Fluorobiphenyl	*48*		*44 - 120*	*05/27/15 07:29*	*06/03/15 19:11*	*1*
2-Fluorophenol (Surr)	*56*		*25 - 120*	*05/27/15 07:29*	*06/03/15 19:11*	*1*
Nitrobenzene-d5 (Surr)	*51*		*27 - 120*	*05/27/15 07:29*	*06/03/15 19:11*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<10		10		ug/Kg	☼	05/22/15 14:03	05/27/15 13:35	1
PCB-1221	<10		10		ug/Kg	☼	05/22/15 14:03	05/27/15 13:35	1
PCB-1232	<10		10		ug/Kg	☼	05/22/15 14:03	05/27/15 13:35	1
PCB-1242	<10		10		ug/Kg	☼	05/22/15 14:03	05/27/15 13:35	1
PCB-1248	<10		10		ug/Kg	☼	05/22/15 14:03	05/27/15 13:35	1
PCB-1254	<10		10		ug/Kg	☼	05/22/15 14:03	05/27/15 13:35	1
PCB-1260	<10		10		ug/Kg	☼	05/22/15 14:03	05/27/15 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*77*		*30 - 150*	*05/22/15 14:03*	*05/27/15 13:35*	*1*
Tetrachloro-m-xylene	*75*		*43 - 142*	*05/22/15 14:03*	*05/27/15 13:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Aluminum	**7400**		12		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Arsenic	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Beryllium	<0.36		0.36		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Cadmium	<0.60		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Chromium	**5.7**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Copper	**1.9**		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Nickel	**2.4**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Lead	**6.0**		0.60		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Antimony	<6.0		6.0		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Selenium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1
Thallium	<1.2		1.2		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1

Client Sample ID: B-1 0'-7'

Lab Sample ID: 400-105952-1
Date Collected: 05/21/15 12:34
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 80.9

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	5.4		2.4		mg/Kg	☼	05/28/15 12:39	05/30/15 13:54	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.020		0.020		mg/Kg	☼	05/28/15 09:07	06/02/15 10:00	1

Client Sample ID: TW-1

Lab Sample ID: 400-105952-2
Date Collected: 05/21/15 14:18
Matrix: Water
Date Received: 05/21/15 15:40

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			06/04/15 01:20	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			06/04/15 01:20	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			06/04/15 01:20	1
1,1-Dichloroethane	<1.0		1.0		ug/L			06/04/15 01:20	1
1,1-Dichloroethene	<1.0		1.0		ug/L			06/04/15 01:20	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			06/04/15 01:20	1
1,2-Dichloroethane	<1.0		1.0		ug/L			06/04/15 01:20	1
1,2-Dichloropropane	<1.0		1.0		ug/L			06/04/15 01:20	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			06/04/15 01:20	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			06/04/15 01:20	1
2-Hexanone	<25		25		ug/L			06/04/15 01:20	1
Acetone	<25		25		ug/L			06/04/15 01:20	1
Benzene	<1.0		1.0		ug/L			06/04/15 01:20	1
Bromoform	<5.0		5.0		ug/L			06/04/15 01:20	1
Bromomethane	<1.0		1.0		ug/L			06/04/15 01:20	1
Carbon disulfide	<1.0		1.0		ug/L			06/04/15 01:20	1
Carbon tetrachloride	<1.0		1.0		ug/L			06/04/15 01:20	1
Chlorobenzene	<1.0		1.0		ug/L			06/04/15 01:20	1
Chlorodibromomethane	<1.0		1.0		ug/L			06/04/15 01:20	1
Chloroethane	<1.0		1.0		ug/L			06/04/15 01:20	1
Chloroform	<1.0		1.0		ug/L			06/04/15 01:20	1
Chloromethane	<1.0		1.0		ug/L			06/04/15 01:20	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			06/04/15 01:20	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			06/04/15 01:20	1
Dichlorobromomethane	<1.0		1.0		ug/L			06/04/15 01:20	1
Ethylbenzene	<1.0		1.0		ug/L			06/04/15 01:20	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/04/15 01:20	1
2-Butanone (MEK)	<25		25		ug/L			06/04/15 01:20	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			06/04/15 01:20	1
Methylene Chloride	<5.0		5.0		ug/L			06/04/15 01:20	1
o-Xylene	<5.0		5.0		ug/L			06/04/15 01:20	1
Styrene	<1.0		1.0		ug/L			06/04/15 01:20	1
Tetrachloroethene	<1.0		1.0		ug/L			06/04/15 01:20	1
Toluene	<1.0		1.0		ug/L			06/04/15 01:20	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			06/04/15 01:20	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			06/04/15 01:20	1
Trichloroethene	<1.0		1.0		ug/L			06/04/15 01:20	1
Vinyl chloride	<1.0		1.0		ug/L			06/04/15 01:20	1

Client: Thompson Engineering Inc
Project/Site: Hardee Property

TestAmerica Job ID: 400-105952-1

Client Sample ID: TW-1
Date Collected: 05/21/15 14:18
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<5.0		5.0		ug/L			06/04/15 01:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*78 - 118*		*06/04/15 01:20*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*06/04/15 01:20*	*1*
Toluene-d8 (Surr)	*100*		*80 - 120*		*06/04/15 01:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
1,4-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
1-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2,4,5-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2,4,6-Trichlorophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2,4-Dichlorophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2,4-Dimethylphenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2,4-Dinitrophenol	<33		33		ug/L		05/27/15 11:27	06/02/15 19:21	1
2-Chlorophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2-Methylnaphthalene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2-Methylphenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2-Nitrophenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
3 & 4 Methylphenol	<22		22		ug/L		05/27/15 11:27	06/02/15 19:21	1
3,3'-Dichlorobenzidine	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
4-Bromophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
4-Chloro-3-methylphenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
4-Chloroaniline	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
4-Nitroaniline	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
4-Nitrophenol	<11	*	11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Acenaphthene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Acenaphthylene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Anthracene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Benzidine	<28	*	28		ug/L		05/27/15 11:27	06/02/15 19:21	1
Benzo[a]anthracene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Benzo[a]pyrene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Benzo[b]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Benzo[g,h,i]perylene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Benzo[k]fluoranthene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Bis(2-chloroethyl)ether	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Butyl benzyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Carbazole	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Chrysene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Di-n-butyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Di-n-octyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Dibenz(a,h)anthracene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Dibenzofuran	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1

Client Sample ID: TW-1
Date Collected: 05/21/15 14:18
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Dimethyl phthalate	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Fluoranthene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Fluorene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Hexachlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Hexachlorobutadiene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Hexachlorocyclopentadiene	<22		22		ug/L		05/27/15 11:27	06/02/15 19:21	1
Hexachloroethane	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Isophorone	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
N-Nitrosodimethylamine	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
N-Nitrosodiphenylamine	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Naphthalene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Nitrobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Pentachlorophenol	<22		22		ug/L		05/27/15 11:27	06/02/15 19:21	1
Phenanthrene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Phenol	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Pyrene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
1,2,4-Trichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
1,2-Dichlorobenzene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2,4-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
2,6-Dinitrotoluene	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1
Dinoseb	<11		11		ug/L		05/27/15 11:27	06/02/15 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*50*		*10 - 120*	*05/27/15 11:27*	*06/02/15 19:21*	*1*
Terphenyl-d14 (Surr)	*68*		*53 - 125*	*05/27/15 11:27*	*06/02/15 19:21*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*15 - 135*	*05/27/15 11:27*	*06/02/15 19:21*	*1*
2-Fluorobiphenyl	*63*		*34 - 120*	*05/27/15 11:27*	*06/02/15 19:21*	*1*
2-Fluorophenol (Surr)	*44*		*10 - 120*	*05/27/15 11:27*	*06/02/15 19:21*	*1*
Nitrobenzene-d5 (Surr)	*67*		*27 - 120*	*05/27/15 11:27*	*06/02/15 19:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 17:55	1
PCB-1221	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 17:55	1
PCB-1232	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 17:55	1
PCB-1242	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 17:55	1
PCB-1248	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 17:55	1
PCB-1254	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 17:55	1
PCB-1260	<0.53		0.53		ug/L		05/26/15 14:10	05/27/15 17:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*10 - 125*	*05/26/15 14:10*	*05/27/15 17:55*	*1*
Tetrachloro-m-xylene	*87*		*46 - 150*	*05/26/15 14:10*	*05/27/15 17:55*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		05/23/15 10:35	05/26/15 16:06	1

Client Sample ID: TW-1

Lab Sample ID: 400-105952-2
Date Collected: 05/21/15 14:18
Matrix: Water
Date Received: 05/21/15 15:40

Method: 6010B - Metals (ICP) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:06	1
Beryllium	<0.0030		0.0030		mg/L		05/23/15 10:35	05/26/15 16:06	1
Cadmium	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:06	1
Chromium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:06	1
Copper	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:06	1
Lead	**0.0081**		0.0050		mg/L		05/23/15 10:35	05/26/15 16:06	1
Nickel	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:06	1
Selenium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:06	1
Silver	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 16:06	1
Thallium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 16:06	1
Zinc	<0.020		0.020		mg/L		05/23/15 10:35	05/26/15 16:06	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/26/15 15:21	05/28/15 13:28	1

Client Sample ID: SB-1 0'-6'

Lab Sample ID: 400-105952-3
Date Collected: 05/21/15 13:00
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,1,2,2-Tetrachloroethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,1,2-Trichloroethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,1-Dichloroethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,1-Dichloroethene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,2-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,2-Dichloroethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,2-Dichloropropane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,3-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
1,4-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
2-Hexanone	<32		32		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Acetone	<32		32		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Benzene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Bromoform	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Bromomethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Carbon disulfide	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Carbon tetrachloride	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Chlorobenzene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Chlorodibromomethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Chloroethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Chloroform	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Chloromethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
cis-1,2-Dichloroethene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
cis-1,3-Dichloropropene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Dichlorobromomethane	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Ethylbenzene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
m-Xylene & p-Xylene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
2-Butanone (MEK)	<32		32		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1

Client Sample ID: SB-1 0'-6'
Date Collected: 05/21/15 13:00
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-3
Matrix: Solid
Percent Solids: 85.2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<32		32		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Methylene Chloride	<19		19		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
o-Xylene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Styrene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Tetrachloroethene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Toluene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
trans-1,2-Dichloroethene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
trans-1,3-Dichloropropene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Trichloroethene	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Vinyl chloride	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1
Xylenes, Total	<6.4		6.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 122*	*06/02/15 11:57*	*06/02/15 22:18*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 22:18*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 22:18*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<380	*	380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
1,4-Dichlorobenzene	<380	*	380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
1-Methylnaphthalene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2,4,5-Trichlorophenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2,4,6-Trichlorophenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2,4-Dichlorophenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2,4-Dimethylphenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2-Chlorophenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2-Methylnaphthalene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2-Methylphenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2-Nitroaniline	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2-Nitrophenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
3 & 4 Methylphenol	<770		770		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
3,3'-Dichlorobenzidine	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
4,6-Dinitro-2-methylphenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
4-Bromophenyl phenyl ether	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
4-Chloro-3-methylphenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
4-Chloroaniline	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
4-Chlorophenyl phenyl ether	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
4-Nitroaniline	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
4-Nitrophenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Acenaphthene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Acenaphthylene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Anthracene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Benzo[a]anthracene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Benzo[a]pyrene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Benzo[b]fluoranthene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Benzo[g,h,i]perylene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Benzo[k]fluoranthene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1

Client: Thompson Engineering Inc
Project/Site: Hardee Property

TestAmerica Job ID: 400-105952-1

Client Sample ID: SB-1 0'-6'
Date Collected: 05/21/15 13:00
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-3
Matrix: Solid
Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Bis(2-chloroethyl)ether	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Bis(2-ethylhexyl) phthalate	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Butyl benzyl phthalate	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Carbazole	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Chrysene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Di-n-butyl phthalate	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Di-n-octyl phthalate	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Dibenz(a,h)anthracene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Dibenzofuran	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Diethyl phthalate	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Dimethyl phthalate	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Fluoranthene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Fluorene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Hexachlorobenzene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Hexachlorobutadiene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Hexachlorocyclopentadiene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Hexachloroethane	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Indeno[1,2,3-cd]pyrene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Isophorone	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
N-Nitrosodi-n-propylamine	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
N-Nitrosodimethylamine	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
N-Nitrosodiphenylamine	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Naphthalene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Nitrobenzene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Pentachlorophenol	<770		770		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Phenanthrene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Phenol	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Pyrene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
1,2,4-Trichlorobenzene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
1,2-Dichlorobenzene	<380	*	380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2,4-Dinitrotoluene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
2,6-Dinitrotoluene	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1
Dinoseb	<380		380		ug/Kg	☼	05/27/15 07:29	06/03/15 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*70*		*37 - 120*	*05/27/15 07:29*	*06/03/15 19:49*	*1*
Terphenyl-d14 (Surr)	*86*		*36 - 134*	*05/27/15 07:29*	*06/03/15 19:49*	*1*
2,4,6-Tribromophenol (Surr)	*56*		*32 - 133*	*05/27/15 07:29*	*06/03/15 19:49*	*1*
2-Fluorobiphenyl	*59*		*44 - 120*	*05/27/15 07:29*	*06/03/15 19:49*	*1*
2-Fluorophenol (Surr)	*57*		*25 - 120*	*05/27/15 07:29*	*06/03/15 19:49*	*1*
Nitrobenzene-d5 (Surr)	*58*		*27 - 120*	*05/27/15 07:29*	*06/03/15 19:49*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:02	1
PCB-1221	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:02	1
PCB-1232	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:02	1
PCB-1242	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:02	1
PCB-1248	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:02	1

Client Sample ID: SB-1 0'-6'

Lab Sample ID: 400-105952-3
Date Collected: 05/21/15 13:00
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 85.2

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:02	1
PCB-1260	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*79*		*30 - 150*	*05/22/15 14:03*	*05/27/15 14:02*	*1*
Tetrachloro-m-xylene	*67*		*43 - 142*	*05/22/15 14:03*	*05/27/15 14:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.54		0.54		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Aluminum	**8400**		11		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Arsenic	**1.6**		0.54		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Beryllium	<0.33		0.33		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Cadmium	<0.54		0.54		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Chromium	**6.8**		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Copper	**2.2**		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Nickel	**2.3**		0.54		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Lead	**12**		0.54		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Antimony	<5.4		5.4		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Selenium	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Thallium	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1
Zinc	**12**		2.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:01	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.018		mg/Kg	☼	05/28/15 09:07	06/02/15 10:01	1

Client Sample ID: SB-2 0'-5'

Lab Sample ID: 400-105952-4
Date Collected: 05/21/15 13:11
Matrix: Solid
Date Received: 05/21/15 15:40
Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,1,2,2-Tetrachloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,1,2-Trichloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,1-Dichloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,1-Dichloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,2-Dichlorobenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,2-Dichloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,2-Dichloropropane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,3-Dichlorobenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
1,4-Dichlorobenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
2-Hexanone	<27		27		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Acetone	<27		27		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Benzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Bromoform	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Bromomethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Carbon disulfide	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Carbon tetrachloride	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1

Client Sample ID: SB-2 0'-5'
Date Collected: 05/21/15 13:11
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-4
Matrix: Solid
Percent Solids: 85.6

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Chlorodibromomethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Chloroethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Chloroform	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Chloromethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
cis-1,2-Dichloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
cis-1,3-Dichloropropene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Dichlorobromomethane	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Ethylbenzene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
m-Xylene & p-Xylene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
2-Butanone (MEK)	<27		27		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
4-Methyl-2-pentanone (MIBK)	<27		27		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Methylene Chloride	<16		16		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
o-Xylene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Styrene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Tetrachloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Toluene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
trans-1,2-Dichloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
trans-1,3-Dichloropropene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Trichloroethene	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Vinyl chloride	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1
Xylenes, Total	<5.4		5.4		ug/Kg	☼	06/02/15 11:57	06/02/15 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*105*		*72 - 122*	*06/02/15 11:57*	*06/02/15 22:43*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 22:43*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*06/02/15 11:57*	*06/02/15 22:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
1,4-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
1-Methylnaphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2,4,5-Trichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2,4,6-Trichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2,4-Dichlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2,4-Dimethylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2-Chlorophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2-Methylnaphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2-Methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2-Nitroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2-Nitrophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
3 & 4 Methylphenol	<770		770		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
3,3'-Dichlorobenzidine	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
4,6-Dinitro-2-methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
4-Bromophenyl phenyl ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
4-Chloro-3-methylphenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
4-Chloroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
4-Chlorophenyl phenyl ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1

Client Sample ID: SB-2 0'-5'
Date Collected: 05/21/15 13:11
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-4
Matrix: Solid
Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
4-Nitrophenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Acenaphthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Acenaphthylene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Benzidine	<1200		1200		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Benzo[a]anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Benzo[a]pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Benzo[b]fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Benzo[g,h,i]perylene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Benzo[k]fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Bis(2-chloroethoxy)methane	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Bis(2-chloroethyl)ether	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Bis(2-ethylhexyl) phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Butyl benzyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Carbazole	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Chrysene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Di-n-butyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Di-n-octyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Dibenz(a,h)anthracene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Dibenzofuran	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Diethyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Dimethyl phthalate	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Fluoranthene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Fluorene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Hexachlorobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Hexachlorobutadiene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Hexachlorocyclopentadiene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Hexachloroethane	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Indeno[1,2,3-cd]pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Isophorone	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
N-Nitrosodi-n-propylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
N-Nitrosodimethylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
N-Nitrosodiphenylamine	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Naphthalene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Nitrobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Pentachlorophenol	<770		770		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Phenanthrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Phenol	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Pyrene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
1,2,4-Trichlorobenzene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
1,2-Dichlorobenzene	<390	*	390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2,4-Dinitrotoluene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
2,6-Dinitrotoluene	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1
Dinoseb	<390		390		ug/Kg	☼	05/27/15 07:29	06/03/15 20:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*70*		*37 - 120*	*05/27/15 07:29*	*06/03/15 20:27*	*1*
Terphenyl-d14 (Surr)	*97*		*36 - 134*	*05/27/15 07:29*	*06/03/15 20:27*	*1*
2,4,6-Tribromophenol (Surr)	*53*		*32 - 133*	*05/27/15 07:29*	*06/03/15 20:27*	*1*

Client Sample ID: SB-2 0'-5'
Date Collected: 05/21/15 13:11
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-4
Matrix: Solid
Percent Solids: 85.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*51*		*44 - 120*	*05/27/15 07:29*	*06/03/15 20:27*	*1*
2-Fluorophenol (Surr)	*55*		*25 - 120*	*05/27/15 07:29*	*06/03/15 20:27*	*1*
Nitrobenzene-d5 (Surr)	*51*		*27 - 120*	*05/27/15 07:29*	*06/03/15 20:27*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:28	1
PCB-1221	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:28	1
PCB-1232	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:28	1
PCB-1242	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:28	1
PCB-1248	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:28	1
PCB-1254	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:28	1
PCB-1260	<9.9		9.9		ug/Kg	☼	05/22/15 14:03	05/27/15 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*84*		*30 - 150*	*05/22/15 14:03*	*05/27/15 14:28*	*1*
Tetrachloro-m-xylene	*72*		*43 - 142*	*05/22/15 14:03*	*05/27/15 14:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.56		0.56		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Aluminum	**4600**		11		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Arsenic	<0.56		0.56		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Beryllium	<0.33		0.33		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Cadmium	<0.56		0.56		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Chromium	**3.7**		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Copper	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Nickel	**1.3**		0.56		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Lead	**2.8**		0.56		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Antimony	<5.6		5.6		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Selenium	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Thallium	<1.1		1.1		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1
Zinc	**3.0**		2.2		mg/Kg	☼	05/28/15 12:39	05/30/15 14:14	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	05/28/15 09:07	06/02/15 10:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-259530/1-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 259530

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Hexanone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Acetone	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Benzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromoform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Bromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon disulfide	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorobenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloroform	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Chloromethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Ethylbenzene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
2-Butanone (MEK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Methylene Chloride	<15		15		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
o-Xylene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Styrene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Tetrachloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Toluene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Trichloroethene	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Vinyl chloride	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1
Xylenes, Total	<5.0		5.0		ug/Kg		06/02/15 11:57	06/02/15 12:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*104*		*72 - 122*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*06/02/15 11:57*	*06/02/15 12:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 120*	*06/02/15 11:57*	*06/02/15 12:53*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259530/2-A
Matrix: Solid
Analysis Batch: 259476

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 259530

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.7		ug/Kg		99	72 - 121
1,1,2,2-Tetrachloroethane	50.0	48.5		ug/Kg		97	67 - 120
1,1,2-Trichloroethane	50.0	48.2		ug/Kg		96	75 - 118
1,1-Dichloroethane	50.0	47.4		ug/Kg		95	61 - 128
1,1-Dichloroethene	50.0	48.7		ug/Kg		97	62 - 130
1,2-Dichlorobenzene	50.0	46.8		ug/Kg		94	76 - 120
1,2-Dichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,2-Dichloropropane	50.0	48.8		ug/Kg		98	64 - 129
1,3-Dichlorobenzene	50.0	46.9		ug/Kg		94	78 - 118
1,4-Dichlorobenzene	50.0	46.5		ug/Kg		93	77 - 118
2-Hexanone	200	203		ug/Kg		102	54 - 140
Acetone	200	193		ug/Kg		96	43 - 150
Benzene	50.0	48.6		ug/Kg		97	74 - 119
Bromoform	50.0	48.2		ug/Kg		96	54 - 125
Bromomethane	50.0	55.9		ug/Kg		112	25 - 150
Carbon disulfide	50.0	44.4		ug/Kg		89	26 - 150
Carbon tetrachloride	50.0	49.8		ug/Kg		100	70 - 128
Chlorobenzene	50.0	47.9		ug/Kg		96	80 - 116
Chlorodibromomethane	50.0	50.2		ug/Kg		100	65 - 131
Chloroethane	50.0	51.2		ug/Kg		102	22 - 150
Chloroform	50.0	48.9		ug/Kg		98	74 - 119
Chloromethane	50.0	50.3		ug/Kg		101	36 - 147
cis-1,2-Dichloroethene	50.0	48.4		ug/Kg		97	68 - 126
cis-1,3-Dichloropropene	50.0	49.4		ug/Kg		99	68 - 125
Dichlorobromomethane	50.0	49.2		ug/Kg		98	68 - 128
Ethylbenzene	50.0	49.3		ug/Kg		99	78 - 120
m-Xylene & p-Xylene	50.0	48.8		ug/Kg		98	70 - 120
2-Butanone (MEK)	200	205		ug/Kg		103	62 - 126
4-Methyl-2-pentanone (MIBK)	200	199		ug/Kg		99	56 - 137
Methylene Chloride	50.0	45.4		ug/Kg		91	45 - 150
o-Xylene	50.0	49.3		ug/Kg		99	70 - 120
Styrene	50.0	49.0		ug/Kg		98	66 - 132
Tetrachloroethene	50.0	47.1		ug/Kg		94	74 - 126
Toluene	50.0	47.8		ug/Kg		96	76 - 120
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	65 - 130
trans-1,3-Dichloropropene	50.0	50.2		ug/Kg		100	65 - 126
Trichloroethene	50.0	48.6		ug/Kg		97	76 - 122
Vinyl chloride	50.0	52.1		ug/Kg		104	52 - 134
Xylenes, Total	100	98.1		ug/Kg		98	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*101*		*79 - 123*
Toluene-d8 (Surr)	*100*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-259739/4
Matrix: Water
Analysis Batch: 259739

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			06/03/15 18:02	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			06/03/15 18:02	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			06/03/15 18:02	1
1,1-Dichloroethane	<1.0		1.0		ug/L			06/03/15 18:02	1
1,1-Dichloroethene	<1.0		1.0		ug/L			06/03/15 18:02	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			06/03/15 18:02	1
1,2-Dichloroethane	<1.0		1.0		ug/L			06/03/15 18:02	1
1,2-Dichloropropane	<1.0		1.0		ug/L			06/03/15 18:02	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			06/03/15 18:02	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			06/03/15 18:02	1
2-Hexanone	<25		25		ug/L			06/03/15 18:02	1
Acetone	<25		25		ug/L			06/03/15 18:02	1
Benzene	<1.0		1.0		ug/L			06/03/15 18:02	1
Bromoform	<5.0		5.0		ug/L			06/03/15 18:02	1
Bromomethane	<1.0		1.0		ug/L			06/03/15 18:02	1
Carbon disulfide	<1.0		1.0		ug/L			06/03/15 18:02	1
Carbon tetrachloride	<1.0		1.0		ug/L			06/03/15 18:02	1
Chlorobenzene	<1.0		1.0		ug/L			06/03/15 18:02	1
Chlorodibromomethane	<1.0		1.0		ug/L			06/03/15 18:02	1
Chloroethane	<1.0		1.0		ug/L			06/03/15 18:02	1
Chloroform	<1.0		1.0		ug/L			06/03/15 18:02	1
Chloromethane	<1.0		1.0		ug/L			06/03/15 18:02	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			06/03/15 18:02	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			06/03/15 18:02	1
Dichlorobromomethane	<1.0		1.0		ug/L			06/03/15 18:02	1
Ethylbenzene	<1.0		1.0		ug/L			06/03/15 18:02	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			06/03/15 18:02	1
2-Butanone (MEK)	<25		25		ug/L			06/03/15 18:02	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			06/03/15 18:02	1
Methylene Chloride	<5.0		5.0		ug/L			06/03/15 18:02	1
o-Xylene	<5.0		5.0		ug/L			06/03/15 18:02	1
Styrene	<1.0		1.0		ug/L			06/03/15 18:02	1
Tetrachloroethene	<1.0		1.0		ug/L			06/03/15 18:02	1
Toluene	<1.0		1.0		ug/L			06/03/15 18:02	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			06/03/15 18:02	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			06/03/15 18:02	1
Trichloroethene	<1.0		1.0		ug/L			06/03/15 18:02	1
Vinyl chloride	<1.0		1.0		ug/L			06/03/15 18:02	1
Xylenes, Total	<5.0		5.0		ug/L			06/03/15 18:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*78 - 118*		*06/03/15 18:02*	*1*
Dibromofluoromethane	*99*		*81 - 121*		*06/03/15 18:02*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*06/03/15 18:02*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-259739/1002
Matrix: Water
Analysis Batch: 259739

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	66 - 130
1,1,2,2-Tetrachloroethane	50.0	56.1		ug/L		112	68 - 132
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	80 - 120
1,1-Dichloroethane	50.0	47.6		ug/L		95	75 - 126
1,1-Dichloroethene	50.0	46.9		ug/L		94	50 - 134
1,2-Dichlorobenzene	50.0	50.0		ug/L		100	80 - 121
1,2-Dichloroethane	50.0	47.6		ug/L		95	69 - 128
1,2-Dichloropropane	50.0	47.3		ug/L		95	77 - 126
1,3-Dichlorobenzene	50.0	50.4		ug/L		101	77 - 124
1,4-Dichlorobenzene	50.0	49.1		ug/L		98	79 - 120
2-Hexanone	200	253		ug/L		127	60 - 150
Acetone	200	209		ug/L		105	24 - 150
Benzene	50.0	45.6		ug/L		91	79 - 120
Bromoform	50.0	53.6		ug/L		107	65 - 121
Bromomethane	50.0	44.2		ug/L		88	10 - 150
Carbon disulfide	50.0	45.9		ug/L		92	41 - 140
Carbon tetrachloride	50.0	47.6		ug/L		95	46 - 141
Chlorobenzene	50.0	50.3		ug/L		101	80 - 120
Chlorodibromomethane	50.0	52.3		ug/L		105	63 - 125
Chloroethane	50.0	50.3		ug/L		101	37 - 150
Chloroform	50.0	47.8		ug/L		96	73 - 122
Chloromethane	50.0	42.8		ug/L		86	49 - 141
cis-1,2-Dichloroethene	50.0	48.4		ug/L		97	78 - 122
cis-1,3-Dichloropropene	50.0	50.4		ug/L		101	70 - 122
Dichlorobromomethane	50.0	49.2		ug/L		98	75 - 127
Ethylbenzene	50.0	50.6		ug/L		101	80 - 120
m-Xylene & p-Xylene	50.0	50.5		ug/L		101	70 - 130
2-Butanone (MEK)	200	223		ug/L		112	62 - 137
4-Methyl-2-pentanone (MIBK)	200	231		ug/L		116	63 - 150
Methylene Chloride	50.0	45.3		ug/L		91	70 - 130
o-Xylene	50.0	51.5		ug/L		103	70 - 130
Styrene	50.0	51.7		ug/L		103	79 - 124
Tetrachloroethene	50.0	50.0		ug/L		100	76 - 124
Toluene	50.0	49.5		ug/L		99	80 - 120
trans-1,2-Dichloroethene	50.0	45.6		ug/L		91	70 - 126
trans-1,3-Dichloropropene	50.0	55.0		ug/L		110	64 - 120
Trichloroethene	50.0	45.7		ug/L		91	77 - 120
Vinyl chloride	50.0	45.1		ug/L		90	60 - 128
Xylenes, Total	100	102		ug/L		102	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*99*		*81 - 121*
Toluene-d8 (Surr)	*104*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,4-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dichlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dimethylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrophenol	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Chlorophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylnaphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3 & 4 Methylphenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chloroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitroaniline	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
4-Nitrophenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Acenaphthylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzidine	<990		990		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[a]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[b]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Benzo[k]fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Butyl benzyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Carbazole	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Chrysene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-butyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Di-n-octyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dibenzofuran	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Diethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dimethyl phthalate	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluoranthene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Fluorene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorobutadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258556/24-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258556

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachloroethane	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Isophorone	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodimethylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Naphthalene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Nitrobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pentachlorophenol	<660		660		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenanthrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Phenol	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Pyrene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
1,2-Dichlorobenzene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,4-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
2,6-Dinitrotoluene	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1
Dinoseb	<330		330		ug/Kg		05/27/15 07:29	06/02/15 14:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*67*		*37 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Terphenyl-d14 (Surr)	*113*		*36 - 134*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2,4,6-Tribromophenol (Surr)	*75*		*32 - 133*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorobiphenyl	*73*		*44 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
2-Fluorophenol (Surr)	*31*		*25 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*
Nitrobenzene-d5 (Surr)	*31*		*27 - 120*	*05/27/15 07:29*	*06/02/15 14:53*	*1*

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	1000	531	*	ug/Kg		53	58 - 120
1-Methylnaphthalene	1000	861		ug/Kg		86	66 - 120
2,4,5-Trichlorophenol	1000	933		ug/Kg		93	62 - 120
2,4,6-Trichlorophenol	1000	901		ug/Kg		90	59 - 120
2,4-Dichlorophenol	1000	930		ug/Kg		93	67 - 120
2,4-Dimethylphenol	1000	895		ug/Kg		89	65 - 120
2,4-Dinitrophenol	2610	2420		ug/Kg		93	23 - 124
2-Chlorophenol	1000	816		ug/Kg		82	60 - 120
2-Nitrophenol	1000	816		ug/Kg		82	56 - 120
Acenaphthene	1000	883		ug/Kg		88	62 - 120
Acenaphthylene	1000	913		ug/Kg		91	61 - 120
Anthracene	1000	983		ug/Kg		98	68 - 120
Benzo[a]anthracene	1000	958		ug/Kg		96	67 - 120
Benzo[a]pyrene	1000	997		ug/Kg		100	64 - 120
Benzo[b]fluoranthene	1000	1030		ug/Kg		103	58 - 121
Benzo[g,h,i]perylene	1000	833		ug/Kg		83	49 - 151
Benzo[k]fluoranthene	1000	1020		ug/Kg		102	61 - 123

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258556/23-A
Matrix: Solid
Analysis Batch: 259419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258556

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-chloroethoxy)methane	1000	849		ug/Kg		85	60 - 120
Bis(2-chloroethyl)ether	1000	650		ug/Kg		65	55 - 120
Bis(2-ethylhexyl) phthalate	1000	946		ug/Kg		95	59 - 136
Butyl benzyl phthalate	1000	979		ug/Kg		98	55 - 135
Carbazole	1000	1100		ug/Kg		110	69 - 121
Chrysene	1000	923		ug/Kg		92	65 - 120
Di-n-butyl phthalate	1000	1000		ug/Kg		100	67 - 132
Di-n-octyl phthalate	1000	791		ug/Kg		79	58 - 132
Dibenz(a,h)anthracene	1000	848		ug/Kg		85	58 - 130
Dibenzofuran	1000	921		ug/Kg		92	65 - 120
Diethyl phthalate	1000	965		ug/Kg		96	62 - 124
Dimethyl phthalate	1000	949		ug/Kg		95	52 - 123
Fluoranthene	1000	973		ug/Kg		97	67 - 123
Fluorene	1000	976		ug/Kg		98	64 - 120
Hexachlorobenzene	1000	962		ug/Kg		96	57 - 131
Hexachlorobutadiene	1000	698		ug/Kg		70	56 - 120
Hexachlorocyclopentadiene	1000	867		ug/Kg		87	1 - 153
Hexachloroethane	1000	529		ug/Kg		53	53 - 120
Indeno[1,2,3-cd]pyrene	1000	854		ug/Kg		85	55 - 133
Isophorone	1000	847		ug/Kg		85	63 - 120
N-Nitrosodi-n-propylamine	1000	858		ug/Kg		86	34 - 150
N-Nitrosodimethylamine	1000	537		ug/Kg		54	26 - 140
N-Nitrosodiphenylamine	2000	1920		ug/Kg		96	16 - 160
Naphthalene	1000	755		ug/Kg		76	59 - 120
Nitrobenzene	1000	766		ug/Kg		77	53 - 125
Pentachlorophenol	2000	1830		ug/Kg		91	30 - 136
Phenanthrene	1000	953		ug/Kg		95	62 - 130
Phenol	1000	864		ug/Kg		86	54 - 120
Pyrene	1000	1050		ug/Kg		105	57 - 127
1,2,4-Trichlorobenzene	1000	728		ug/Kg		73	62 - 120
1,2-Dichlorobenzene	1000	575	*	ug/Kg		57	58 - 120
2,4-Dinitrotoluene	1000	981		ug/Kg		98	59 - 128

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*90*		*37 - 120*
Terphenyl-d14 (Surr)	*107*		*36 - 134*
2,4,6-Tribromophenol (Surr)	*106*		*32 - 133*
2-Fluorobiphenyl	*87*		*44 - 120*
2-Fluorophenol (Surr)	*77*		*25 - 120*
Nitrobenzene-d5 (Surr)	*76*		*27 - 120*

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,4-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4,5-Trichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4,6-Trichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dichlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dimethylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dinitrophenol	<30		30		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Chlorophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Methylnaphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Nitroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2-Nitrophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
3 & 4 Methylphenol	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
3,3'-Dichlorobenzidine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Bromophenyl phenyl ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chloro-3-methylphenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chloroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Nitroaniline	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
4-Nitrophenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Acenaphthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Acenaphthylene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzidine	<25		25		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[a]anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[a]pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[b]fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[g,h,i]perylene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Benzo[k]fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-chloroethyl)ether	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Butyl benzyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Carbazole	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Chrysene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Di-n-butyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Di-n-octyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dibenz(a,h)anthracene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dibenzofuran	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Diethyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dimethyl phthalate	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Fluoranthene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Fluorene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorobutadiene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachlorocyclopentadiene	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
Hexachloroethane	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-258628/1-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258628

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodimethylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
N-Nitrosodiphenylamine	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Naphthalene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Nitrobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Pentachlorophenol	<20		20		ug/L		05/27/15 11:27	05/28/15 18:24	1
Phenanthrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Phenol	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Pyrene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,2,4-Trichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
1,2-Dichlorobenzene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,4-Dinitrotoluene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
2,6-Dinitrotoluene	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1
Dinoseb	<10		10		ug/L		05/27/15 11:27	05/28/15 18:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5 (Surr)	*81*		*10 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
Terphenyl-d14 (Surr)	*115*		*53 - 125*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2,4,6-Tribromophenol (Surr)	*101*		*15 - 135*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2-Fluorobiphenyl	*89*		*34 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
2-Fluorophenol (Surr)	*71*		*10 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*
Nitrobenzene-d5 (Surr)	*92*		*27 - 120*	*05/27/15 11:27*	*05/28/15 18:24*	*1*

Lab Sample ID: LCS 400-258628/2-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	30.0	18.6		ug/L		62	51 - 120
1-Methylnaphthalene	30.0	25.9		ug/L		86	59 - 120
2,4,5-Trichlorophenol	30.0	27.4		ug/L		91	53 - 130
2,4,6-Trichlorophenol	30.0	27.1		ug/L		90	52 - 131
2,4-Dichlorophenol	30.0	27.6		ug/L		92	52 - 125
2,4-Dimethylphenol	30.0	25.0		ug/L		83	52 - 121
2,4-Dinitrophenol	78.4	76.1		ug/L		97	22 - 146
2-Chlorophenol	30.0	22.9		ug/L		76	45 - 120
2-Nitrophenol	30.0	25.6		ug/L		85	47 - 129
Acenaphthene	30.0	26.7		ug/L		89	57 - 125
Acenaphthylene	30.0	27.1		ug/L		90	59 - 125
Anthracene	30.0	28.1		ug/L		94	65 - 128
Benzo[a]anthracene	30.0	26.2		ug/L		87	63 - 126
Benzo[a]pyrene	30.0	26.9		ug/L		90	61 - 125
Benzo[b]fluoranthene	30.0	26.9		ug/L		90	49 - 140
Benzo[g,h,i]perylene	30.0	26.8		ug/L		89	51 - 149
Benzo[k]fluoranthene	30.0	26.4		ug/L		88	56 - 138
Bis(2-chloroethoxy)methane	30.0	26.5		ug/L		88	54 - 123
Bis(2-chloroethyl)ether	30.0	24.7		ug/L		82	47 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-258628/2-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	30.0	26.8		ug/L		89	62 - 140
Butyl benzyl phthalate	30.0	25.2		ug/L		84	51 - 150
Carbazole	30.0	32.4		ug/L		108	57 - 136
Chrysene	30.0	26.0		ug/L		87	60 - 126
Di-n-butyl phthalate	30.0	27.8		ug/L		93	59 - 144
Di-n-octyl phthalate	30.0	26.1		ug/L		87	55 - 140
Dibenz(a,h)anthracene	30.0	27.0		ug/L		90	57 - 133
Dibenzofuran	30.0	27.4		ug/L		91	62 - 124
Diethyl phthalate	30.0	26.9		ug/L		90	55 - 140
Dimethyl phthalate	30.0	27.5		ug/L		92	50 - 133
Fluoranthene	30.0	29.1		ug/L		97	66 - 131
Fluorene	30.0	28.2		ug/L		94	60 - 132
Hexachlorobenzene	30.0	27.7		ug/L		92	60 - 138
Hexachlorobutadiene	30.0	20.1		ug/L		67	48 - 126
Hexachlorocyclopentadiene	30.0	13.2	J	ug/L		44	1 - 139
Hexachloroethane	30.0	16.2		ug/L		54	46 - 121
Indeno[1,2,3-cd]pyrene	30.0	27.5		ug/L		92	55 - 135
Isophorone	30.0	26.2		ug/L		87	57 - 122
N-Nitrosodi-n-propylamine	30.0	25.5		ug/L		85	41 - 143
N-Nitrosodimethylamine	30.0	21.4		ug/L		71	21 - 134
N-Nitrosodiphenylamine	60.0	55.4		ug/L		92	10 - 185
Naphthalene	30.0	23.6		ug/L		79	55 - 125
Nitrobenzene	30.0	25.3		ug/L		84	52 - 128
Pentachlorophenol	60.0	56.9		ug/L		95	38 - 138
Phenanthrene	30.0	27.1		ug/L		90	64 - 133
Phenol	30.0	23.2		ug/L		77	37 - 120
Pyrene	30.0	25.0		ug/L		83	55 - 142
1,2,4-Trichlorobenzene	30.0	21.7		ug/L		72	57 - 120
1,2-Dichlorobenzene	30.0	19.5		ug/L		65	53 - 120
2,4-Dinitrotoluene	30.0	28.4		ug/L		95	54 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5 (Surr)	*82*		*10 - 120*
Terphenyl-d14 (Surr)	*91*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*112*		*15 - 135*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol (Surr)	*58*		*10 - 120*
Nitrobenzene-d5 (Surr)	*88*		*27 - 120*

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dichlorobenzene	30.0	20.8		ug/L		69	51 - 120	11	30
1-Methylnaphthalene	30.0	26.2		ug/L		87	59 - 120	1	30
2,4,5-Trichlorophenol	30.0	26.0		ug/L		87	53 - 130	5	30
2,4,6-Trichlorophenol	30.0	25.8		ug/L		86	52 - 131	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4-Dichlorophenol			30.0	25.9		ug/L		86	52 - 125	7	30
2,4-Dimethylphenol			30.0	22.9		ug/L		76	52 - 121	9	30
2,4-Dinitrophenol			78.4	67.9		ug/L		87	22 - 146	11	30
2-Chlorophenol			30.0	22.6		ug/L		75	45 - 120	2	30
2-Nitrophenol			30.0	24.5		ug/L		82	47 - 129	5	30
Acenaphthene			30.0	26.5		ug/L		88	57 - 125	1	30
Acenaphthylene			30.0	26.8		ug/L		89	59 - 125	1	30
Anthracene			30.0	27.6		ug/L		92	65 - 128	2	30
Benzo[a]anthracene			30.0	26.1		ug/L		87	63 - 126	0	30
Benzo[a]pyrene			30.0	26.4		ug/L		88	61 - 125	2	30
Benzo[b]fluoranthene			30.0	27.1		ug/L		90	49 - 140	1	30
Benzo[g,h,i]perylene			30.0	25.9		ug/L		86	51 - 149	3	30
Benzo[k]fluoranthene			30.0	26.8		ug/L		89	56 - 138	1	30
Bis(2-chloroethoxy)methane			30.0	25.3		ug/L		84	54 - 123	4	30
Bis(2-chloroethyl)ether			30.0	22.6		ug/L		75	47 - 120	9	30
Bis(2-ethylhexyl) phthalate			30.0	27.7		ug/L		92	62 - 140	3	30
Butyl benzyl phthalate			30.0	25.8		ug/L		86	51 - 150	2	30
Carbazole			30.0	31.2		ug/L		104	57 - 136	4	30
Chrysene			30.0	25.7		ug/L		86	60 - 126	1	30
Di-n-butyl phthalate			30.0	27.7		ug/L		92	59 - 144	1	30
Di-n-octyl phthalate			30.0	25.6		ug/L		85	55 - 140	2	30
Dibenz(a,h)anthracene			30.0	26.2		ug/L		87	57 - 133	3	30
Dibenzofuran			30.0	27.1		ug/L		90	62 - 124	1	30
Diethyl phthalate			30.0	26.0		ug/L		87	55 - 140	3	30
Dimethyl phthalate			30.0	26.2		ug/L		87	50 - 133	5	30
Fluoranthene			30.0	28.1		ug/L		94	66 - 131	4	30
Fluorene			30.0	27.7		ug/L		92	60 - 132	2	30
Hexachlorobenzene			30.0	28.1		ug/L		94	60 - 138	1	30
Hexachlorobutadiene			30.0	23.4		ug/L		78	48 - 126	15	30
Hexachlorocyclopentadiene			30.0	12.1	J	ug/L		40	1 - 139	8	30
Hexachloroethane			30.0	19.1		ug/L		64	46 - 121	16	30
Indeno[1,2,3-cd]pyrene			30.0	26.5		ug/L		88	55 - 135	4	30
Isophorone			30.0	25.5		ug/L		85	57 - 122	2	30
N-Nitrosodi-n-propylamine			30.0	24.9		ug/L		83	41 - 143	3	30
N-Nitrosodimethylamine			30.0	19.3		ug/L		64	21 - 134	10	30
N-Nitrosodiphenylamine			60.0	54.2		ug/L		90	10 - 185	2	30
Naphthalene			30.0	24.1		ug/L		80	55 - 125	2	30
Nitrobenzene			30.0	24.6		ug/L		82	52 - 128	3	30
Pentachlorophenol			60.0	55.3		ug/L		92	38 - 138	3	30
Phenanthrene			30.0	26.8		ug/L		89	64 - 133	1	30
Phenol			30.0	19.1		ug/L		64	37 - 120	19	30
Pyrene			30.0	25.8		ug/L		86	55 - 142	3	30
1,2,4-Trichlorobenzene			30.0	23.5		ug/L		78	57 - 120	8	30
1,2-Dichlorobenzene			30.0	21.4		ug/L		71	53 - 120	9	30
2,4-Dinitrotoluene			30.0	27.4		ug/L		91	54 - 141	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Phenol-d5 (Surr)	*66*		*10 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-258628/3-A
Matrix: Water
Analysis Batch: 258908

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258628

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*93*		*53 - 125*
2,4,6-Tribromophenol (Surr)	*103*		*15 - 135*
2-Fluorobiphenyl	*91*		*34 - 120*
2-Fluorophenol (Surr)	*64*		*10 - 120*
Nitrobenzene-d5 (Surr)	*84*		*27 - 120*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-258140/19-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258140

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1221	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1232	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1242	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1248	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1254	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1
PCB-1260	<8.5		8.5		ug/Kg		05/22/15 08:08	05/27/15 03:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*67*		*30 - 150*	*05/22/15 08:08*	*05/27/15 03:44*	*1*
Tetrachloro-m-xylene	*53*		*43 - 142*	*05/22/15 08:08*	*05/27/15 03:44*	*1*

Lab Sample ID: LCS 400-258140/18-A
Matrix: Solid
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258140

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	176		ug/Kg		105	54 - 126
PCB-1260	167	205		ug/Kg		123	56 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*123*		*30 - 150*
Tetrachloro-m-xylene	*99*		*43 - 142*

Lab Sample ID: MB 400-258405/1-A
Matrix: Water
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1221	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1232	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1242	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1248	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 400-258405/1-A
Matrix: Water
Analysis Batch: 258518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258405

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1
PCB-1260	<0.50		0.50		ug/L		05/26/15 08:19	05/27/15 16:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*10 - 125*	*05/26/15 08:19*	*05/27/15 16:38*	*1*
Tetrachloro-m-xylene	*89*		*46 - 150*	*05/26/15 08:19*	*05/27/15 16:38*	*1*

Lab Sample ID: LCS 400-258405/4-A
Matrix: Water
Analysis Batch: 258518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258405

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			5.00	5.11		ug/L		102	54 - 126		
PCB-1260			5.00	4.88		ug/L		98	56 - 139		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*48*		*10 - 125*
Tetrachloro-m-xylene	*92*		*46 - 150*

Lab Sample ID: LCSD 400-258405/5-A
Matrix: Water
Analysis Batch: 258518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 258405

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			5.00	4.92		ug/L		98	54 - 126	4	40
PCB-1260			5.00	4.90		ug/L		98	56 - 139	0	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*55*		*10 - 125*
Tetrachloro-m-xylene	*86*		*46 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aluminum	<10		10		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Arsenic	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Beryllium	<0.30		0.30		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Cadmium	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Chromium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Copper	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Nickel	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Lead	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Antimony	<5.0		5.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 400-258853/1-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258853

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.50		0.50		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Selenium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Thallium	<1.0		1.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1
Zinc	<2.0		2.0		mg/Kg		05/28/15 12:39	05/30/15 13:01	1

Lab Sample ID: LCS 400-258853/2-A
Matrix: Solid
Analysis Batch: 259247

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258853

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aluminum	989	1010		mg/Kg		102	80 - 120
Arsenic	98.9	97.5		mg/Kg		99	80 - 120
Beryllium	49.4	50.9		mg/Kg		103	80 - 120
Cadmium	49.4	47.9		mg/Kg		97	80 - 120
Chromium	98.9	101		mg/Kg		102	80 - 120
Copper	98.9	103		mg/Kg		104	80 - 120
Nickel	98.9	96.1		mg/Kg		97	80 - 120
Lead	98.9	97.1		mg/Kg		98	80 - 120
Antimony	98.9	97.8		mg/Kg		99	80 - 120
Silver	49.4	51.1		mg/Kg		103	80 - 120
Selenium	98.9	95.3		mg/Kg		96	80 - 120
Thallium	98.9	97.6		mg/Kg		99	80 - 120
Zinc	98.9	101		mg/Kg		102	80 - 120

Lab Sample ID: MB 400-258303/1-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 258303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Beryllium	<0.0030		0.0030		mg/L		05/23/15 10:35	05/26/15 15:19	1
Cadmium	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Chromium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Copper	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Nickel	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Lead	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Antimony	<0.050		0.050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Silver	<0.0050		0.0050		mg/L		05/23/15 10:35	05/26/15 15:19	1
Selenium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Thallium	<0.010		0.010		mg/L		05/23/15 10:35	05/26/15 15:19	1
Zinc	<0.020		0.020		mg/L		05/23/15 10:35	05/26/15 15:19	1

Lab Sample ID: LCS 400-258303/2-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.10		mg/L		110	80 - 120
Beryllium	0.500	0.541		mg/L		108	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-258303/2-A
Matrix: Water
Analysis Batch: 258567

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 258303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.541		mg/L		108	80 - 120
Chromium	1.00	1.08		mg/L		108	80 - 120
Copper	1.00	1.11		mg/L		111	80 - 120
Nickel	1.00	1.07		mg/L		107	80 - 120
Lead	1.00	1.07		mg/L		107	80 - 120
Antimony	1.00	1.08		mg/L		108	80 - 120
Silver	0.500	0.544		mg/L		109	80 - 120
Selenium	1.00	1.10		mg/L		110	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Zinc	1.00	1.15		mg/L		115	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-258506/13-A
Matrix: Water
Analysis Batch: 258898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258506

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/26/15 15:12	05/28/15 13:24	1

Lab Sample ID: LCS 400-258506/14-A
Matrix: Water
Analysis Batch: 258898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258506

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	1.01	1.11		ug/L		110	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 400-258800/14-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 258800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		05/28/15 09:07	06/02/15 09:27	1

Lab Sample ID: LCS 400-258800/15-A
Matrix: Solid
Analysis Batch: 259475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 258800

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0670	0.0714		mg/Kg		107	80 - 120

Client Sample ID: B-1 0'-7'

Lab Sample ID: 400-105952-1

Date Collected: 05/21/15 12:34

Matrix: Solid

Date Received: 05/21/15 15:40

Percent Solids: 80.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 21:53	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259618	06/03/15 19:11	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 14:03	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 13:35	MAM	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 13:54	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 10:00	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Client Sample ID: TW-1

Lab Sample ID: 400-105952-2

Date Collected: 05/21/15 14:18

Matrix: Water

Date Received: 05/21/15 15:40

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	259739	06/04/15 01:20	CLN	TAL PEN
Total/NA	Prep	3520C			258628	05/27/15 11:27	KH1	TAL PEN
Total/NA	Analysis	8270D		1	259419	06/02/15 19:21	AJR	TAL PEN
Total/NA	Prep	3520C			258405	05/26/15 14:10	KH1	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 17:55	MAM	TAL PEN
Total Recoverable	Prep	3005A			258303	05/23/15 10:35	DN1	TAL PEN
Total Recoverable	Analysis	6010B		1	258567	05/26/15 16:06	SLM	TAL PEN
Total/NA	Prep	7470A			258506	05/26/15 15:21	JAP	TAL PEN
Total/NA	Analysis	7470A		1	258898	05/28/15 13:28	JAP	TAL PEN

Client Sample ID: SB-1 0'-6'

Lab Sample ID: 400-105952-3

Date Collected: 05/21/15 13:00

Matrix: Solid

Date Received: 05/21/15 15:40

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 22:18	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259618	06/03/15 19:49	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 14:03	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 14:02	MAM	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 14:01	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 10:01	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Hardee Property

TestAmerica Job ID: 400-105952-1

Client Sample ID: SB-2 0'-5'

Date Collected: 05/21/15 13:11
Date Received: 05/21/15 15:40

Lab Sample ID: 400-105952-4

Matrix: Solid
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			259530	06/02/15 11:57	LRC	TAL PEN
Total/NA	Analysis	8260B		1	259476	06/02/15 22:43	LRC	TAL PEN
Total/NA	Prep	3550C			258556	05/27/15 07:29	RDT	TAL PEN
Total/NA	Analysis	8270D		1	259618	06/03/15 20:27	AJR	TAL PEN
Total/NA	Prep	3550C			258140	05/22/15 14:03	RDT	TAL PEN
Total/NA	Analysis	8082A		1	258518	05/27/15 14:28	MAM	TAL PEN
Total/NA	Prep	3050B			258853	05/28/15 12:39	KWN	TAL PEN
Total/NA	Analysis	6010B		1	259247	05/30/15 14:14	SLM	TAL PEN
Total/NA	Prep	7471B			258800	05/28/15 09:07	JAP	TAL PEN
Total/NA	Analysis	7471B		1	259475	06/02/15 10:02	JAP	TAL PEN
Total/NA	Analysis	Moisture		1	258583	05/27/15 08:37	TMP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

400-105952 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-45621-21847.1
Client Contact: Ms. Melissa Montgomery	Phone: (251) 665-5979	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 1
Company: Thompson Engineering Inc				Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard TAT			
City: Mobile	TAT Requested (days): Standard TAT			
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			
Email: mmontgomery@thompsonengineering.com	WO #:			
Project Name: Thompson Engineering	Project #: 40003023			
Site: Hardee Property	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270D - Target Compound List, PCBs	6010B, 7471A, 8260B	8260B - VOC tcl list of compounds	8270D - SVOCsTarget Compound List	6010B, 7470A	8082A - TCL PCBs by 8082A							Total Number of containers	Special Instructions/Note:
Preservation Code:							N	N	A	N	D	N								
B-1 0'-7'	5/21/15	1334	C	Solid	N	N	1	1											2	
TW-1	5/21/15	1418	G	Solid Water	N	N			3	2	1	1							7	
SB-1 0'-6'	5/21/15	1300	C	Solid	N	N	1	1											2	
SB-2 0'-5'	5/21/15	1311	C	Solid	N	N	1	1											2	
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																
				Solid																

Possible Hazard Identification
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Melissa M. Montgomery	5/21/15 1320	Thompson Eng.		5/21/15 1320	TE
2		5/21/15 1540	THOMPSON		5-21-15 15:40	
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 5-21-15 17:60	TA

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 4.1 °C #5592

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6/9/2015

C.E. LLC PROPERTIES

1.1 Project Background

The C.E. LLC properties include several unoccupied parcels and a leased vehicle tow and junk yard located between Madison Street, Royal Street, Canal Street, and Water Street in Mobile, Alabama (Figures 1 and 2, Appendix A). The southeastern portion of the properties was once owned and operated by National Linen Service. The northern portion of the properties was once owned by Bender Shipbuilding and was used for storage and office space. The properties are located within the current proposed I-10 Mobile River bridge project limits. Surface elevations at the project sites are approximately 10 to 25 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on December 12 and 13, 2016. Eleven borings (B-1/TW-1 through B5/TW-6 and SB-1 through SB-5) were advanced on-site via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 8 feet below ground surface (bgs) in boring B-6, 12 feet bgs in boring B-5 and soil borings SB-1, SB-2, SB-3, SB-4, and SB-5, 16 feet bgs in borings B-1, B-3, and B-4, and 24 feet bgs in boring B-2 by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from each boring from the ground surface to the top of the water table. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8082A), and metals (EPA Methods 6010B/7471B). It should be noted that PCBs were not analyzed in the soil sample collected from soil boring B-6.

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, six borings (B-1 through B-6) were advanced an additional four feet into the water table and temporary 1-inch diameter piezometer (TW-1 through TW-6) were installed with five feet of 1-inch diameter schedule 40 PVC with 0.010 inch slotted screen. Following temporary well installation, groundwater samples were collected with the use of a peristaltic pump after first developing and purging the well. During well development and purging, pH, temperature, specific conductivity, dissolved oxygen, and turbidity were collected after each well volume and measurements were recorded in a bound field log book. The well was purged until the field parameters stabilized. The final well volume field measurements are included in Appendix B.

Groundwater samples were collected in appropriate laboratory supplied containers. After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the COC and the containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Groundwater samples were submitted to the laboratory to be analyzed for the following chemical analyses: VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), PCBs (EPA Method 8082A), and metals (EPA Methods 6010B/7470A). It should be noted that PCBs were not analyzed in the groundwater sample collected from groundwater TW-6.

Upon completion of groundwater sampling procedures, the temporary wells were removed from the subsurface and the boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of sands and clays. Soil boring logs and temporary well construction details are presented in Appendix C.

A copy of the laboratory analytical reports for the chemical analyses of VOCs, SVOCs, PCBs, and metals for soil and groundwater are included in Appendix D (Log Nos.: 400-131381-1 and 400-131420-1). The soil analytical results indicated non-detectable concentrations of SVOCs and PCBs in all soil samples collected. Acetone was reported in soil samples collected from soil borings SB-3 and SB-5 but at levels below the ADEM Preliminary Screening Values (PSVs) and U.S. EPA Regional Screening Levels (RSLs). Chromium, copper, lead, nickel, and zinc were reported in all eleven soil samples collected but at levels below their ADEM PSVs and EPA RSLs. Arsenic was reported in all eleven soil samples collected at levels above the ADEM and EPA residential screening levels and above the ADEM commercial screening level. Arsenic was reported above the EPA industrial/commercial screening level in soil samples collected from borings B-1, B-2, B-3, and B-4 and soil borings SB-1, SB-2, SB-4, and SB-5. Beryllium was reported in borings B-1, B-2, B-3, and B-4 at concentrations below the ADEM PSVs and EPA RSLs. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

The groundwater analytical results indicated non-detectable concentrations of VOCs, SVOCs, and PCBs in the groundwater samples collected. Arsenic was reported in the groundwater samples collected from temporary wells TW-1 and TW-2 but at concentrations

below the ADEM PSV and EPA Maximum Contaminant Level (MCL). Arsenic was also reported in the groundwater sample collected from temporary well TW-6 but at a concentration above the ADEM PSV and EPA MCL. Chromium and zinc were reported in the groundwater samples collected from temporary wells TW-1, TW-2, TW-3, TW-4, and TW-6 but at concentrations below their ADEM and EPA screening values. Copper was reported in temporary wells TW-1, TW-4, and TW-6 at concentrations below the ADEM PSV and EPA MCL. Lead was reported below the ADEM PSV and EPA MCL in temporary wells TW-2, TW-3, TW-4, and TW-6 but above the ADEM PSV and EPA MCL in temporary well TW-1. Nickel was reported in temporary wells TW-1 and TW-6 but at concentrations below the ADEM PSV and EPA RSL. The groundwater analytical results compared to the ADEM PSVs and EPA RSLs or MCLs (if available) are provided in Table 2.

1.4 Conclusions

- Detectable concentrations of beryllium, chromium, copper, lead, nickel, and zinc were reported in one or more soil samples collected but at levels below their respective ADEM and EPA regulatory screening values.

- The detectable concentrations of arsenic in all eleven soil samples collected were reported above the EPA residential and ADEM residential and commercial regulatory screening values. The detectable concentrations of arsenic in borings B-1, B-2, B-3, B-4 and soil borings SB-1, SB-2, SB-4, and SB-5 were reported above the EPA regulatory screening value for industrial soils. The detectable arsenic concentrations reported in soils ranged from 1.9 mg/kg to 9.2 mg/kg. The United States Geological Survey (USGS) has reported an average concentration of arsenic for the conterminous United States as 7.2 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Groundwater was encountered at 7.5 to 23 feet below ground surface. Detectable concentrations of lead were reported in five of the groundwater samples collected but only exceeded ADEM and EPA regulatory screening values in temporary well TW-1. Detectable concentrations of arsenic were reported in three groundwater samples collected but only exceeded ADEM and EPA regulatory screening values in temporary well TW-6. Detectable concentrations of chromium, copper, nickel, and zinc were reported in one or more groundwater samples collected but at levels below their respective ADEM and EPA regulatory screening values.

1.5 Recommendations

Based on review of the analytical results of the soil and groundwater samples collected on December 12 and 13, 2016, some metals specifically arsenic in soil and arsenic and lead in

groundwater have detectable concentrations above ADEM and EPA commercial/industrial regulatory screening values. The detected arsenic values in soils are within the range historically reported in Mobile County, Alabama. The groundwater results suggest that elevated turbidity, i.e., fines and sediment inherent to the sample, contribute to a portion of the data results and not entirely the dissolved fraction of inorganics in groundwater. Nevertheless, if groundwater is encountered during subsurface work should not be used for potable purposes.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
C.E. LLC Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID										
							B-1 0'-13'	B-2 0'-22'	B-3 0'-14'	B-4 0'-16'	B-5 0'-12'	B-6 0'-7'	SB-1 0'-11'	SB-2 0'-10'	SB-3 0'-12'	SB-4 0'-12'	SB-5 0'-11'
Volatile Organics GC/MS																	
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<0.032	<0.033	<0.031	<0.033	<0.031	<0.005	<0.031	<0.030	<0.028	<0.030	<0.029
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<0.032	<0.033	<0.031	<0.033	<0.031	<0.005	<0.031	<0.030	0.045	<0.030	0.029
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Bromoform	75-25-2	mg/kg	19	86	62	220	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Chloromethane	74-87-3	mg/kg	11	46	47	160	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<0.032	<0.033	<0.031	<0.033	<0.031	<0.025	<0.031	<0.030	<0.028	<0.030	<0.029
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<0.032	<0.033	<0.031	<0.033	<0.031	<0.025	<0.031	<0.030	<0.028	<0.030	<0.029
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<0.019	<0.020	<0.018	<0.020	<0.019	<0.015	<0.019	<0.018	<0.017	<0.018	<0.017
o-Xylene	95-47-6	mg/kg	65	280	None	None	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Toluene	108-88-3	mg/kg	490	4700	520	520	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<0.0064	<0.0066	<0.0061	<0.0067	<0.0063	<0.005	<0.0062	<0.0060	<0.0057	<0.0059	<0.0058
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	<0.013	<0.013	<0.012	<0.013	<0.013	<0.010	<0.012	<0.012	<0.011	<0.012	<0.012

The data presented is a summary of the results of samples collected on December 12, 2016. See Appendix D for complete analytical report.

(1) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008

mg/kg indicates milligrams per kilogram.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
C.E. LLC Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID										
							B-1 0'-12'	B-2 0'-22'	B-3 0'-14'	B-4 0'-16'	B-5 0'-12'	B-6 0'-7'	SB-1 0'-11'	SB-2 0'-10'	SB-3 0'-12'	SB-4 0'-12'	SB-5 0'-11'
Semivolatile Organics																	
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Atrazine	1912-24-9	mg/kg	2.4	10	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Acetophenone	98-86-2	mg/kg	780	12000	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Benzaldehyde	100-52-7	mg/kg	170	820	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.840	<0.880	<0.840	<0.830	<0.840	<0.730	<0.830	<0.810	<0.730	<0.700	<0.780
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.840	<0.880	<0.840	<0.830	<0.840	<0.730	<0.830	<0.810	<0.730	<0.700	<0.780
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.3	<1.3	<1.3	<1.2	<1.3	<1.1	<1.2	<1.2	<1.1	<1.1	<1.2
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.420	<0.440	<0.420	<0.410	<0.420	<0.360	<0.420	<0.410	<0.370	<0.350	<0.390

The data presented is a summary of the results of samples collected on December 12, 2016. See Appendix D for complete analytical report.

(1) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008

mg/kg indicates milligrams per kilogram.

* = LCS or LCSD is outside acceptance limits.

Table 1c
Soil Analytical Results
PCB Arochlors
C.E. LLC Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID										
							B-1 0'-12'	B-2 0'-22'	B-3 0'-14'	B-4 0'-16'	B-5 0'-12'	B-6 0'-7'	SB-1 0'-11'	SB-2 0'-10'	SB-3 0'-12'	SB-4 0'-12'	SB-5 0'-11'
PCB Arochlors																	
PCB-1016	12674-11-2	mg/kg	0.41	5.1	0.39	21	<0.021	<0.023	<0.022	<0.022	<0.021	NA	<0.021	<0.021	<0.019	<0.018	<0.020
PCB-1221	11104-28-2	mg/kg	0.20	0.83	0.22	0.74	<0.021	<0.023	<0.022	<0.022	<0.021	NA	<0.021	<0.021	<0.019	<0.018	<0.020
PCB-1232	11141-16-5	mg/kg	0.17	0.72	0.22	0.74	<0.021	<0.023	<0.022	<0.022	<0.021	NA	<0.021	<0.021	<0.019	<0.018	<0.020
PCB-1242	53469-21-9	mg/kg	0.23	0.95	0.22	0.74	<0.021	<0.023	<0.022	<0.022	<0.021	NA	<0.021	<0.021	<0.019	<0.018	<0.020
PCB-1248	12672-29-6	mg/kg	0.23	0.95	0.22	0.74	<0.021	<0.023	<0.022	<0.022	<0.021	NA	<0.021	<0.021	<0.019	<0.018	<0.020
PCB-1254	11097-69-1	mg/kg	0.12	0.97	0.22	0.74	<0.021	<0.023	<0.022	<0.022	<0.021	NA	<0.021	<0.021	<0.019	<0.018	<0.020
PCB-1260	11096-82-5	mg/kg	0.24	0.99	0.22	0.74	<0.021	<0.023	<0.022	<0.022	<0.021	NA	<0.021	<0.021	<0.019	<0.018	<0.020

The data presented is a summary of the results of samples collected on December 12, 2016. See Appendix D for complete analytical report.

(1) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008

mg/kg indicates milligrams per kilogram.

NA indicates sample was not analyzed for PCBs.

Table 1d
Soil Analytical Results
Metals
C.E. LLC Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID										
							B-1 0'-13'	B-2 0'-22'	B-3 0'-14'	B-4 0'-16'	B-5 0'-12'	B-6 0'-7'	SB-1 0'-11'	SB-2 0'-10'	SB-3 0'-12'	SB-4 0'-12'	SB-5 0'-11'
Metals																	
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<5.7	<6.2	<6.0	<5.9	<6.0	<5.2	<6.0	<5.7	<5.2	<4.9	<5.7
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	**4.2**	**3.4**	**6.8**	**3.7**	**1.9**	**1.9**	**6.0**	**3.5**	**2.5**	**9.2**	**3.6**
Beryllium	7440-41-7	mg/kg	16	230	15	190	0.39	0.74	0.59	0.47	<0.36	<0.31	0.48	0.58	<0.31	<0.29	<0.34
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.57	<0.62	<0.60	<0.59	<0.60	<0.52	<0.60	<0.57	<0.52	<0.49	<0.57
Chromium	7440-47-3	mg/kg	None	None	30	64	8.8	10	12	10	12	7.5	8.5	8.9	5.7	8.7	9.3
Copper	7440-50-8	mg/kg	310	4700	310	4100	3.7	5.4	6.6	4.2	5.3	5.9	3.2	9.6	2.1	2.9	4.3
Lead	7439-92-1	mg/kg	400	800	400	800	5.1	8.3	6.6	4.7	6.2	9.0	4.6	64	3.4	4.4	4.9
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	<0.020	0.021	<0.020	<0.020	0.023	<0.018	<0.020	0.026	<0.018	<0.017	<0.018
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	6.4	7.4	8.0	4.6	3.6	1.6	7.1	5.5	3.4	4.4	5.1
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.1	<1.2	<1.2	<1.2	<1.2	<1.0	<1.2	<1.1	<1.0	<0.98	<1.1
Silver	7440-22-4	mg/kg	39	580	39	510	<0.57	<0.62	<0.60	<0.59	<0.60	<0.52	<0.60	<0.57	<0.52	<0.49	<0.57
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.1	<1.2	<1.2	<1.2	<1.2	<1.0	<1.2	<1.1	<1.0	<0.98	<1.1
Zinc	7440-66-6	mg/kg	2300	35000	2,300	100000	20	27	30	25	9.7	4.4	37	46	13	37	21

The data presented is a summary of the results of samples collected on December 12, 2016. See Appendix D for complete analytical report.

(1) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008

mg/kg indicates milligrams per kilogram.

Bold and shaded values indicates concentration exceeds screening level.

Table 2a
Groundwater Analytical Results
Volatile Organic Compounds
C.E. LLC Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID					
					TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
Volatile Organics GC/MS										
1,1,1-Trichloroethane	71-55-6	ug/L	200[3]	200	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.076	0.055	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	ug/L	5[3]	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1-Dichloroethane	75-34-3	ug/L	2.8	81	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	ug/L	7[3]	7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	ug/L	None	18	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Hexanone	591-78-6	ug/L	3.8[3]	None	<25	<25	<25	<25	<25	<25
Acetone	67-64-1	ug/L	1400	550	<25	<25	<25	<25	<25	<25
Benzene	71-43-2	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	75-25-2	ug/L	80[3]	80	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bromomethane	74-83-9	ug/L	0.75	0.87	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	75-15-0	ug/L	81	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	56-23-5	ug/L	5[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	ug/L	80[3]	None	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75-00-3	ug/L	2100	4.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	67-66-3	ug/L	80[3]	80	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	74-87-3	ug/L	19	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70[3]	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dichlorobromomethane	75-27-4	ug/L	80[3]	None	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	ug/L	700[3]	700	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
m-Xylene & p-Xylene	1330-20-7	ug/L	10000[3]	10000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	78-93-3	ug/L	560	700	<25	<25	<25	<25	<25	<25
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	630	200	<25	<25	<25	<25	<25	<25
Methylene chloride	75-09-2	ug/L	5.0[3]	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
o-Xylene	95-47-6	ug/L	19	19	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Styrene	100-42-5	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	ug/L	5.0[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	108-88-3	ug/L	100[3]	1000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100[3]	100	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Trichloroethene (TCE)	79-01-6	ug/L	5.0[3]	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	ug/L	2.0[3]	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	1330-20-7	ug/L	10000[3]	10000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

The data presented is a summary of the results of samples collected on December 12 and 13, 2016. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, May 2016.
ug/L indicates micrograms per liter.

Table 2b
Groundwater Analytical Results
Semi-Volatile Organic Compounds
C.E. LLC Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID					
					TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
Semivolatile Organics										
Acenaphthene	83-32-9	ug/L	53	37	<11	<10	<9.3	<11	<10	<23
Acenaphthylene	208-96-8	ug/L	None	93.9	<11	<10	<9.3	<11	<10	<23
Acetophenone	98-86-2	ug/L	190	None	<11*	<10*	<9.3*	<11*	<10*	<23*
Anthracene	120-12-7	ug/L	180	180	<11	<10	<9.3	<11	<10	<23
Atrazine	1912-24-9	ug/L	3.0[3]	3.0	<11	<10	<9.3	<11	<10	<23
Benzaldehyde	100-52-7	ug/L	19	None	<11	<10	<9.3	<11	<10	<23
Benzo(a)anthracene	56-55-3	ug/L	0.012	0.092	<11	<10	<9.3	<11	<10	<23
Benzo(a)pyrene	50-32-8	ug/L	0.2[3]	0.2	<11	<10	<9.3	<11	<10	<23
Benzo(b)fluoranthene	205-99-2	ug/L	0.034	0.092	<11	<10	<9.3	<11	<10	<23
Benzo(g,h,i)perylene	191-24-2	ug/L	None	46.9	<11	<10	<9.3	<11	<10	<23
Benzo(k)fluoranthene	207-08-9	ug/L	0.34	0.92	<11	<10	<9.3	<11	<10	<23
1,1'-Biphenyl	92-52-4	ug/L	0.0083	None	<11	<10	<9.3	<11	<10	<23
bis(2-chloroethoxy)methane	111-91-1	ug/L	5.9	46	<11	<10	<9.3	<11	<10	<23
bis(2-chloroethyl)ether	111-44-4	ug/L	0.014	None	<11	<10	<9.3	<11	<10	<23
bis(2-chloroisopropyl)ether	108-60-1	ug/L	71	0.027	<11	<10	<9.3	<11	<10	<23
bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0[3]	6.0	<11	<10	<9.3	<11	<10	<23
4-Bromophenyl phenyl ether	101-55-3	ug/L	None	None	<11	<10	<9.3	<11	<10	<23
Butyl benzyl phthalate	85-68-7	ug/L	16	730	<11	<10	<9.3	<11	<10	<23
Caprolactam	105-60-2	ug/L	990	None	<11	<10	<9.3	<11	<10	<23
Carbazole	86-74-8	ug/L	None	3.4	<11	<10	<9.3	<11	<10	<23
4-Chloroaniline	106-47-8	ug/L	0.37	15	<11	<10	<9.3	<11	<10	<23
4-Chloro-3-methylphenol	59-50-7	ug/L	140	None	<11	<10	<9.3	<11	<10	<23
2-Chloronaphthalene	91-58-7	ug/L	75	49	<11	<10	<9.3	<11	<10	<23
2-Chlorophenol	95-57-8	ug/L	9.1	3	<11	<10	<9.3	<11	<10	<23
4-Chlorophenyl phenyl ether	7005-72-3	ug/L	None	None	<11	<10	<9.3	<11	<10	<23
Chrysene	218-01-9	ug/L	3.4	9.2	<11	<10	<9.3	<11	<10	<23
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0034	0.0092	<11	<10	<9.3	<11	<10	<23
Dibenzofuran	132-64-9	ug/L	0.79	1.2	<11	<10	<9.3	<11	<10	<23
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.13	0.15	<11	<10	<9.3	<11	<10	<23
2,4-Dichlorophenol	120-83-2	ug/L	4.6	11	<11	<10	<9.3	<11	<10	<23
Diethyl phthalate	84-66-2	ug/L	1500	2900	<11	<10	<9.3	<11	<10	<23
2,4-Dimethylphenol	105-67-9	ug/L	36	73	<11	<10	<9.3	<11	<10	<23
Dimthyl phthalate	131-11-3	ug/L	None	36000	<11	<10	<9.3	<11	<10	<23
Di-n-butyl phthalate	84-74-2	ug/L	90	360	<11	<10	<9.3	<11	<10	<23
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	0.15	None	<11	<10	<9.3	<11	<10	<23
2,4-Dinitrophenol	51-28-5	ug/L	3.9	7.3	<34	<30	<28	<33	<31	<70
2,4-Dinitrotoluene	121-14-2	ug/L	0.24	7.3	<11	<10	<9.3	<11	<10	<23
2,6-Dinitrotoluene	606-20-2	ug/L	0.049	3.6	<11	<10	<9.3	<11	<10	<23
Di-n-octyl phthalate	117-84-0	ug/L	20	150	<11	<10	<9.3	<11	<10	<23
Fluoranthene	206-44-0	ug/L	80	150	<11	<10	<9.3	<11	<10	<23
Fluorene	86-73-7	ug/L	29	24	<11	<10	<9.3	<11	<10	<23
Hexachlorobenzene	118-74-1	ug/L	1.0[3]	1	<11	<10	<9.3	<11	<10	<23
Hexachlorobutadiene	87-68-3	ug/L	0.14	0.86	<11	<10	<9.3	<11	<10	<23
Hexachlorocyclopentadiene	77-47-4	ug/L	50[3]	50	<23	<20	<19	<22	<20	<47
Hexachloroethane	67-72-1	ug/L	0.33	4.8	<11	<10	<9.3	<11	<10	<23
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.034	0.092	<11	<10	<9.3	<11	<10	<23
Isophorone	78-59-1	ug/L	78	71	<11	<10	<9.3	<11	<10	<23
2-Methylnaphthalene	91-57-6	ug/L	3.6	6.26	<11	<10	<9.3	<11	<10	<23
2-Methylphenol	95-48-7	ug/L	93	180	<11	<10	<9.3	<11	<10	<23
3 & 4 Methylphenol	106-44-5	ug/L	190	18	<23	<20	<19	<22	<20	<47
Naphthalene	91-20-3	ug/L	0.17	0.62	<11	<10	<9.3	<11	<10	<23
2-Nitroaniline	88-74-4	ug/L	19	11	<11	<10	<9.3	<11	<10	<23
3-Nitroaniline	99-09-2	ug/L	None	None	<11	<10	<9.3	<11	<10	<23
4-Nitroaniline	100-01-6	ug/L	3.8	None	<11	<10	<9.3	<11	<10	<23
Nitrobenzene	98-95-3	ug/L	0.14	0.34	<11	<10	<9.3	<11	<10	<23
2-Nitrophenol	88-75-5	ug/L	None	None	<11	<10	<9.3	<11	<10	<23
4-Nitrophenol	100-02-7	ug/L	None	12.5	<11	<10	<9.3	<11	<10	<23
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.011	0.0096	<11	<10	<9.3	<11	<10	<23
N-Nitrosodiphenylamine	86-30-6	ug/L	12	14	<11	<10	<9.3	<11	<10	<23
Pentachlorophenol	87-86-5	ug/L	1.0[3]	1.0	<23	<20	<19	<22	<20	<47
Phenanthrene	85-01-8	ug/L	None	46.9	<11	<10	<9.3	<11	<10	<23
Phenol	108-95-2	ug/L	580	1100	<11	<10	<9.3	<11	<10	<23
Pyrene	129-00-0	ug/L	12	18	<11	<10	<9.3	<11	<10	<23
2,4,5-Trichlorophenol	95-95-4	ug/L	120	360	<11	<10	<9.3	<11	<10	<23
2,4,6-Trichlorophenol	88-06-2	ug/L	1.2	0.36	<11	<10	<9.3	<11	<10	<23

The data presented is a summary of the results of samples collected on December 12 and 13, 2016. See Appendix D for complete analytical report
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, May 2016.
ug/L indicates micrograms per liter.
* = RPD of the LCS and LCSD exceeds the control limits.

Table 2c
Groundwater Analytical Results
PCB Arochlors
C.E. LLC Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID				
					TW-1	TW-2	TW-3	TW-4	TW-5
PCB Arochlors									
PCB-1016	12674-11-2	ug/L	0.14	0.96	<0.48	<0.51	<0.46	<0.49	<0.51
PCB-1221	11104-28-2	ug/L	0.0047	0.034	<0.48	<0.51	<0.46	<0.49	<0.51
PCB-1232	11141-16-5	ug/L	0.0047	0.034	<0.48	<0.51	<0.46	<0.49	<0.51
PCB-1242	53469-21-9	ug/L	0.0078	0.034	<0.48	<0.51	<0.46	<0.49	<0.51
PCB-1248	12672-29-6	ug/L	0.0078	0.034	<0.48	<0.51	<0.46	<0.49	<0.51
PCB-1254	11097-69-1	ug/L	0.0078	0.034	<0.48	<0.51	<0.46	<0.49	<0.51
PCB-1260	11096-82-5	ug/L	0.0078	0.034	<0.48	<0.51	<0.46	<0.49	<0.51

The data presented is a summary of the results of samples collected on December 12 and 13, 2016. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
ug/L indicates micrograms per liter.

Table 2d
Groundwater Analytical Results
Metals
C.E. LLC Properties
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID					
					TW-1	TW-2	TW-3	TW-4	TW-5	TW-6
Metals										
Antimony	7440-36-0	mg/L	0.006[3]	0.006	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Arsenic	7440-38-2	mg/L	0.01[3]	0.01	0.0083	0.0056	<0.0050	<0.0050	<0.0050	**0.014**
Beryllium	7440-41-7	mg/L	0.004[3]	0.004	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030	<0.0030
Cadmium	7440-43-9	mg/L	0.005[3]	0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.1[3]	0.10	0.018	0.017	0.022	0.025	<0.010	0.046
Copper	7440-50-8	mg/L	1.3[3]	1.30	0.023	<0.010	<0.010	0.023	<0.010	0.022
Lead	7439-92-1	mg/L	0.015[3]	0.015	**0.023**	0.01	0.0089	0.0089	<0.0050	0.026
Mercury	7487-94-7	mg/L	0.002[3]	0.002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	7440-02-0	mg/L	0.039	0.1	0.0079	<0.0050	<0.0050	<0.0050	<0.0050	0.021
Selenium	7782-49-2	mg/L	0.005[3]	0.005	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Silver	7440-22-4	mg/L	0.0094	0.0018	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Thallium	7440-28-0	mg/L	0.002[3]	0.002	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Zinc	7440-66-6	mg/L	0.6	1.1	0.068	0.024	<0.020	0.02	<0.020	0.12

The data presented is a summary of the results of samples collected on December 12 and 13, 2016. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.

(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.

(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, May 2016.

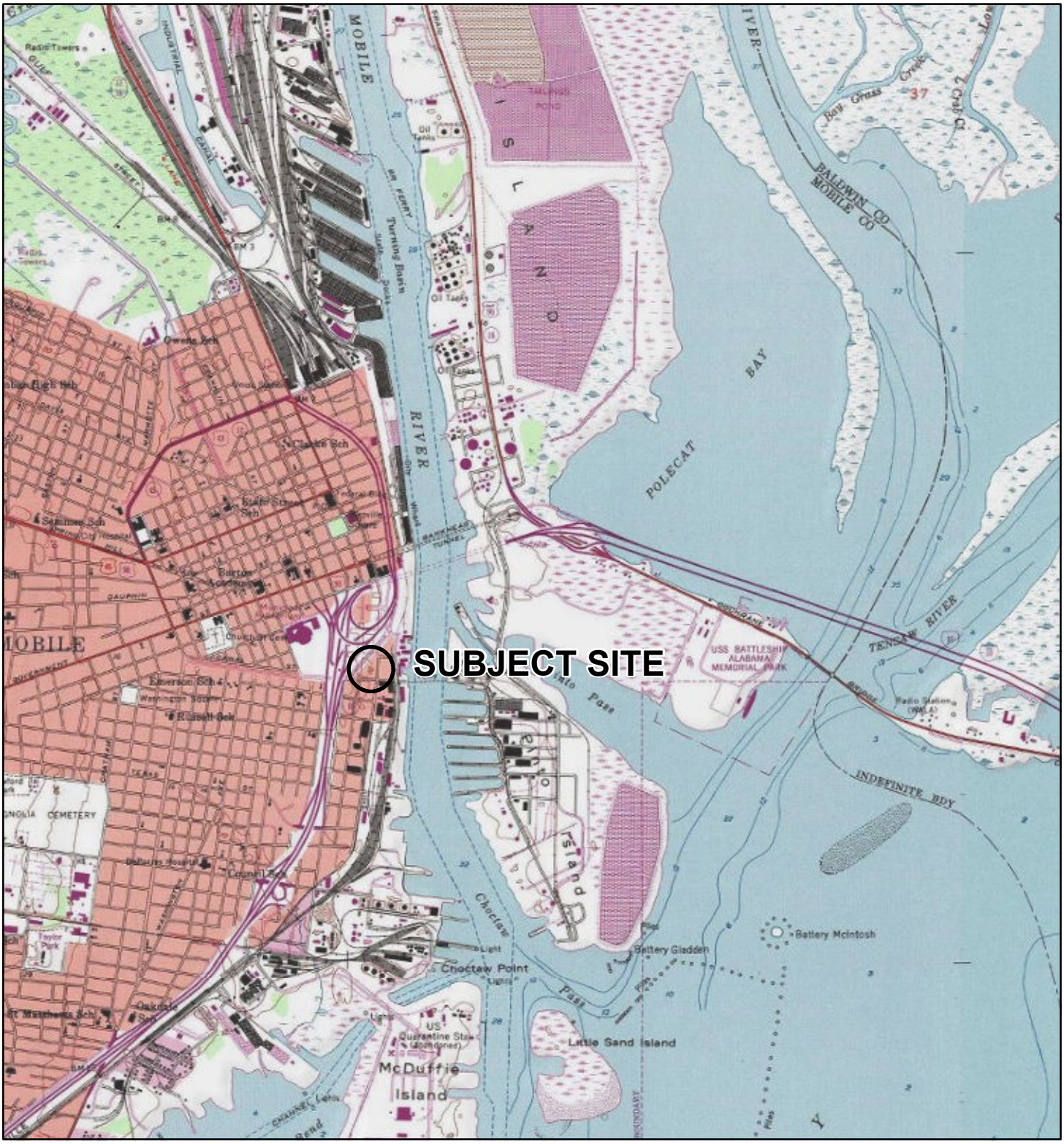
mg/L indicates milligrams per liter.

Bold and shaded values indicates concentration exceeds screening level.

APPENDIX A

C.E. LLC PROPERTIES
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

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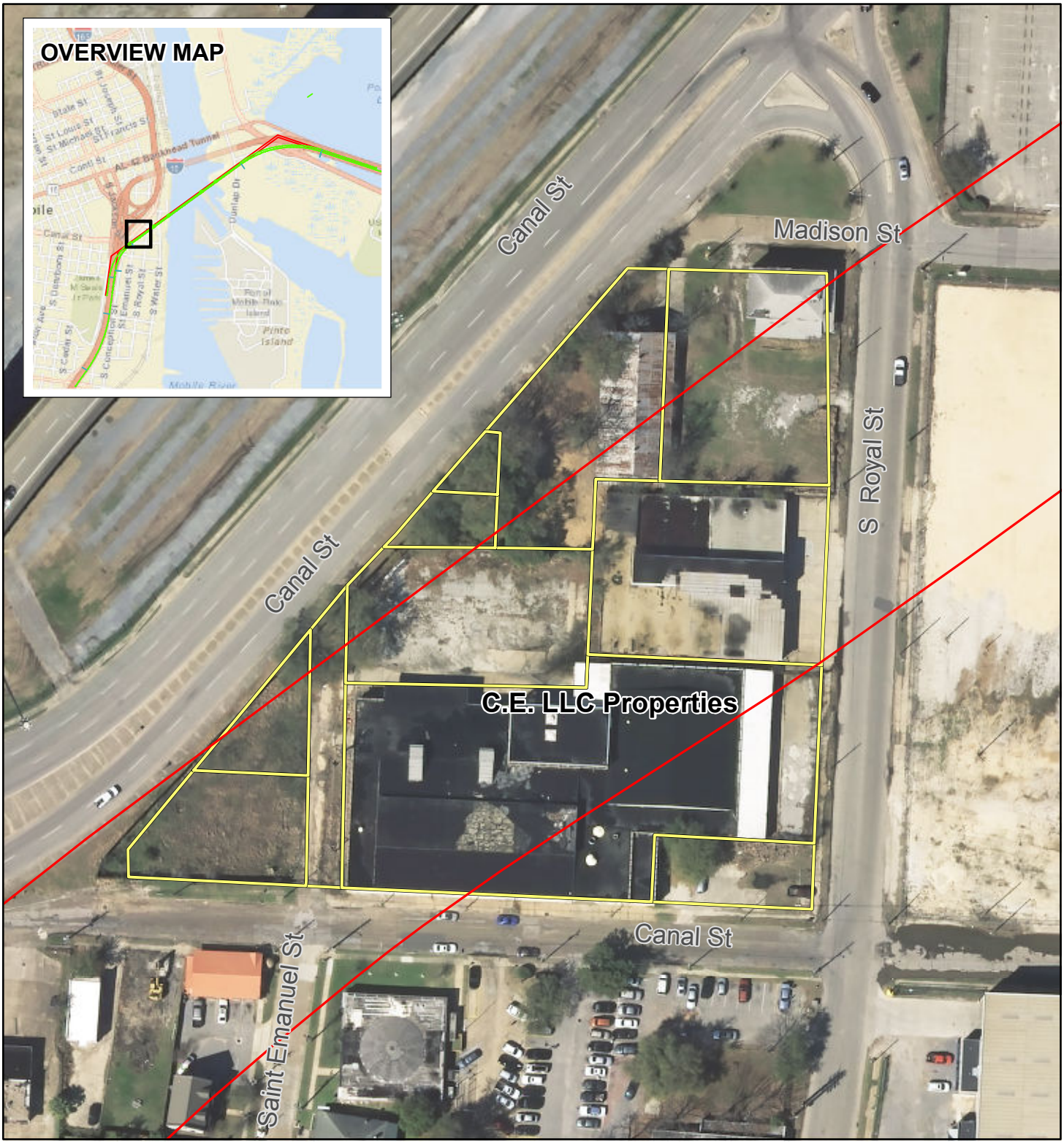
ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 1
SITE VICINITY MAP
C.E. L.L.C. PROPERTIES

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

Parcel Line

Project Limit

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2014 Imagery - 1FT Resolution
Mobile County Revenue Commissioner's Parcel - May 2016
Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

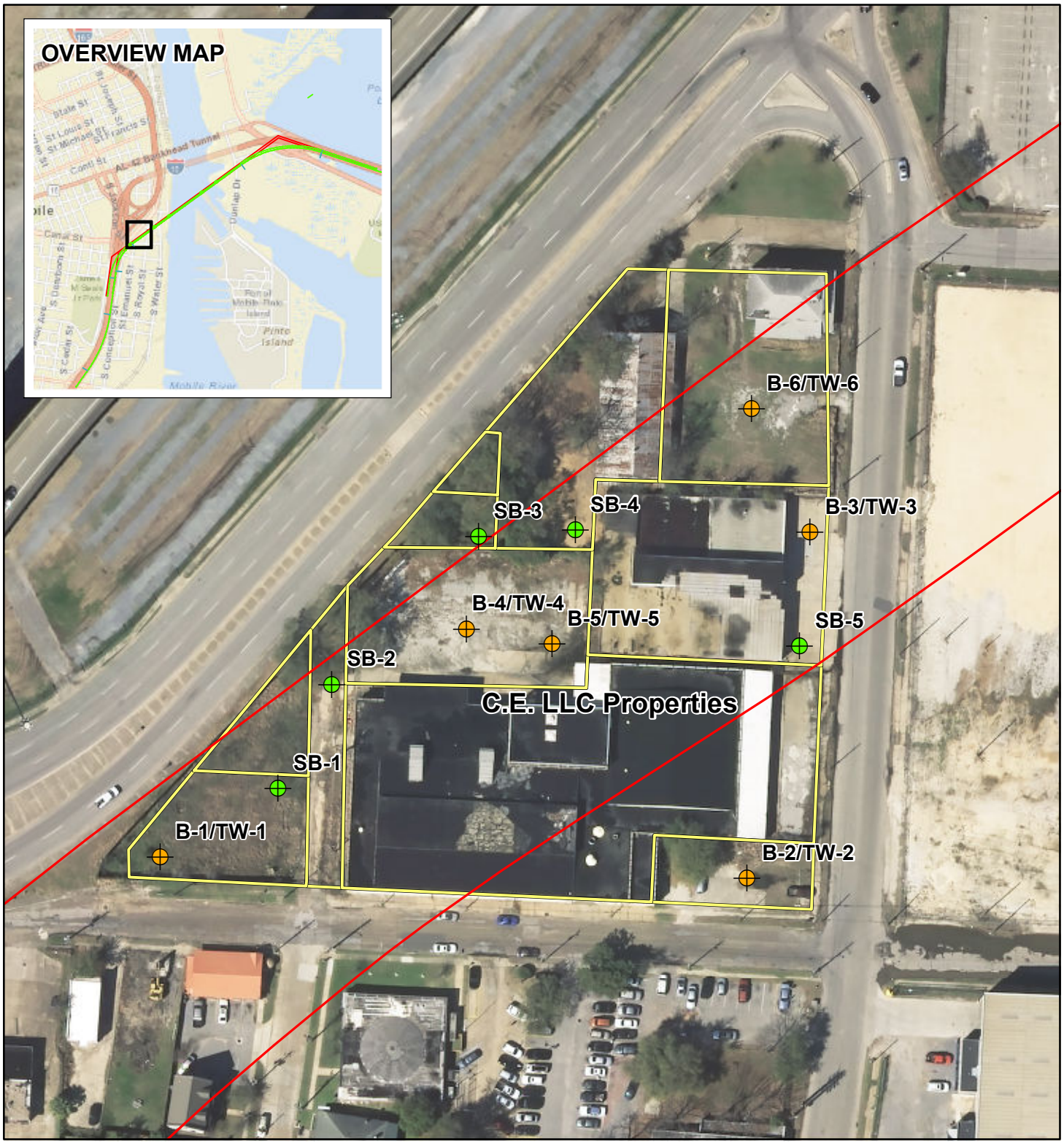
ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 2
AERIAL PHOTOGRAPH
C.E. L.L.C. PROPERTIES

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\CE_LLC_PROP_FIG2.mxd



LEGEND

- Soil Boring (SB)
- Boring /Temporary Well (B/TW)
- Project Limit
- Parcel Line

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2014 Imagery - 1FT Resolution
Mobile County Revenue Commissioner's Parcel Data - May 2016
Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORINIG LOCATION PLAN
C.E. L.L.C. PROPERTIES

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\CE_LLC_PROP_FIG3.mxd

APPENDIX B

C.E. LLC PROPERTIES
GROUNDWATER FIELD PARAMETER DATA

PROJECT NO.: 15-1101-0043

Groundwater Field Parameter Data

C.E. LLC Properties
Preliminary Investigation
15-1101-0043

Well I.D.	Total Depth (feet)	Depth to Water Level (feet)	Well Volume (gallon)	Volume Evacuated (gallon)	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	16.1	7.42	0.20	0.6	5.2	24.2	0.277	0.92	>1000
TW-2	27.0	6.05	0.48	8	5.2	24.2	0.173	0.12	301
TW-3	18.5	6.98	0.26	3	5.1	24.8	0.261	0.09	682
TW-4	20.0	6.47	0.31	7.5	5.4	25.0	0.243	0.1	444
TW-5	20.7	7.65	0.28	7	5.0	25.4	0.265	0.11	53.2
TW-6	20.5	6.8	0.32	8	5.2	25.3	0.271	0.06	238

Notes:
1. Measurements presented are the final well volume.
2. Total depth and depth to water level are measured from top of well casing.
3. S.U. - Standard Units
4. oC - Degrees Celcius
5. uS - micro Siemens per Centimeter
6. mg/L-milligrams per liter
7. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

APPENDIX C

C.E. LLC PROPERTIES
SOIL BORING LOGS AND
TEMPORARY WELL CONSTRUCTION DETAILS

PROJECT NO.: 15-1101-0043

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TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** December 12, 2016 **GR. WATER DEPTH:** 13.3 ft. bgs

BORING NO.: B-1/TW-1 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Red SANDY CLAY	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Light gray to tan fine SAND			
5		Dark gray to gray CLAYEY SAND, moist			
		Dark gray to gray CLAYEY SAND with clay lenses			
10		WOOD			
		Dark gray fine SAND, saturated			
15		B.T. @ 18 ft bgs			
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** December 12, 2016 **GR. WATER DEPTH:** 22 ft. bgs

BORING NO.: B-2/TW-2 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black TOPSOIL	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Brown, orange, and red SILTY SAND			
5		yellowish brown to brown, moist			
		Dark gray CLAYEY SAND with some CLAY lenses, moist			
10		Dark gray fine SAND, moist			
		Dark gray CLAY			
15					
20					
		Light gray, orange, and yellow fine SAND, saturated			
25					
		B.T. @ 26 ft bgs			
30					
35					

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TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** December 12, 2016 **GR. WATER DEPTH:** 14 ft. bgs

BORING NO.: B-3/TW-3 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Light gray and orangish brown fine SAND			
5		Dark gray to gray SILTY SAND, moist			
10		Dark gray CLAY			
		Dark gray CLAY with ORGANICS			
		Dark gray CLAY			
15		Orange and light tan to white fine SAND, saturated			
		B.T. @ 18 ft bgs			
20					
25					
30					
35					



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TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** December 12, 2016 **GR. WATER DEPTH:** 16 ft. bgs

BORING NO.: B-4/TW-4 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		White fine SAND			
5		Light gray SILTY SAND			
		Gray CLAYEY SAND			
10		Gray CLAYEY SAND with some sandy clay and clay lenses			
		Gray CLAY			
15		Orange fine SAND, saturated			
		Light gray to white fine SAND, saturated			
20		B.T. @ 20 ft bgs			
25					
30					
35					

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TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** December 12, 2016 **GR. WATER DEPTH:** 12.5 ft. bgs

BORING NO.: B-5/TW-5 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap.		
		Brown SILTY SAND			
5		Dark gray CLAYEY SAND			
		WOOD			
10		Dark gray CLAYEY SAND with some sandy clay lenses moist			
		Light gray to white fine SAND saturated			
15					
		B.T. @ 18 ft bgs			
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** December 12, 2016 **GR. WATER DEPTH:** 7 ft. bgs

BORING NO.: B-6/TW-6 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		TOPSOIL	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake): Flush-threaded joints with bottom cap.		
		Light brown to brown fine SAND			
5		saturated			
		Dark gray CLAY			
10					
15		Dark gray CLAY with ORGANICS			
		B.T. @ 16 ft bgs			
20					
25					
30					
35					



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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** 12/12/2016 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: SB-1 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Brown, tan, and white fine SAND			
5		Dark gray to gray CLAYEY SAND, moist			
		with CLAY lenses			
10		Dark gray to gray fine SAND, saturated			
		B.T. @ 12 ft bgs			
15					
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** 12/12/2016 **GR. WATER DEPTH:** 10 ft. bgs

BORING NO.: SB-2 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black TOPSOIL			
		Dark gray and brown to light brown fine SILTY SAND			
		Light brown, tan, orange and red fine SAND			
5		Gray CLAYEY SAND, moist			
10		Dark gray to gray fine SAND, saturated			
		B.T. @ 12 ft bgs			
15					
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** 12/12/2016 **GR. WATER DEPTH:** 12 ft. bgs

BORING NO.: SB-3 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black TOPSOIL			
		Gray and brown fine SAND			
5		light gray, brown, and orangish brown			
		orange			
10		Dark gray to gray CLAYEY SAND			
		moist			
15		Gray to light gray fine SILTY SAND, saturated			
		B.T. @ 16 ft bgs			
20					
25					
30					
35					

thompson ENGINEERING

AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** 12/12/2016 **GR. WATER DEPTH:** 12 ft. bgs

BORING NO.: SB-4 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black TOPSOIL			
		Dark brown fine SAND			
		light brown to tan			
5					
		orange			
		light brown to tan			
		Dark gray to gray CLAYEY SAND			
10		moist			
15		Gray to light gray fine SILTY SAND, saturated			
		Light gray CLAY			
20		Orange and white fine SAND, saturated.			
		B.T. @ 20 ft bgs			
25					
30					
35					

thompson ENGINEERING

AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** 12/12/2016 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: SB-5 **LOCATION:** C.E. LLC Properties **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE			
		Light gray fine SAND			
5		Dark gray to gray SILTY SAND, moist			
		Dark gray CLAY			
10		gray and orange			
		White fine SAND, saturated			
		B.T. @ 12 ft bgs			
15					
20					
25					
30					
35					

APPENDIX D

C.E. LLC PROPERTIES
LABORATORY ANALYTICAL DATA
WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-131381-1
Client Project/Site: C.E. LLC.

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
12/30/2016 3:06:20 PM

Mike Nance, Service Center Manager
(251)706-3210
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-131381-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-131381-1

Comments
No additional comments.

Receipt
The samples were received on 12/12/2016 4:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-336079 recovered above the upper control limit for Hexachlorocyclopentadiene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: B-5 0'-12' (400-131381-1), B-4 0'-16' (400-131381-2), B-1 0'-13' (400-131381-3), SB-01 0'-11' (400-131381-4), SB-02 0'-10' (400-131381-5), B-02 0'-22' (400-131381-6), SB-5 0'-11' (400-131381-7), B-3 0'-14' (400-131381-8), B-6 0'-7' (400-131381-9), SB-3 0'-12' (400-131381-10), SB-4 0'-12' (400-131381-11) and (MB 400-335798/15-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8082A: The continuing calibration verification (CCV) associated with batch 400-336077 recovered above the upper control limit for PCB-1260. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: B-5 0'-12' (400-131381-1), B-4 0'-16' (400-131381-2), B-1 0'-13' (400-131381-3), SB-01 0'-11' (400-131381-4), SB-02 0'-10' (400-131381-5), B-02 0'-22' (400-131381-6), SB-5 0'-11' (400-131381-7), B-3 0'-14' (400-131381-8), SB-3 0'-12' (400-131381-10), SB-4 0'-12' (400-131381-11), (400-131381-C-1-A MS) and (400-131381-C-1-B MSD).

Method(s) 8082A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-336238 and analytical batch 400-336638 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010B: The post digestion spike % recovery for Nickel associated with batch 400-336250 was outside of control limits.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 400-335767 and analytical batch 400-336250 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
400-131381-1	B-5 0'-12'	Solid	12/12/16 09:35	12/12/16 16:25
400-131381-2	B-4 0'-16'	Solid	12/12/16 10:09	12/12/16 16:25
400-131381-3	B-1 0'-13'	Solid	12/12/16 10:48	12/12/16 16:25
400-131381-4	SB-01 0'-11'	Solid	12/12/16 11:06	12/12/16 16:25
400-131381-5	SB-02 0'-10'	Solid	12/12/16 11:22	12/12/16 16:25
400-131381-6	B-02 0'-22'	Solid	12/12/16 12:50	12/12/16 16:25
400-131381-7	SB-5 0'-11'	Solid	12/12/16 13:30	12/12/16 16:25
400-131381-8	B-3 0'-14'	Solid	12/12/16 13:55	12/12/16 16:25
400-131381-9	B-6 0'-7'	Solid	12/12/16 14:15	12/12/16 16:25
400-131381-10	SB-3 0'-12'	Solid	12/12/16 14:50	12/12/16 16:25
400-131381-11	SB-4 0'-12'	Solid	12/12/16 15:05	12/12/16 16:25

Client Sample ID: B-5 0'-12'
Date Collected: 12/12/16 09:35
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-1
Matrix: Solid
Percent Solids: 78.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,1,2,2-Tetrachloroethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,1,2-Trichloroethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,1-Dichloroethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,1-Dichloroethene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,2-Dichlorobenzene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,2-Dichloroethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,2-Dichloropropane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,3-Dichlorobenzene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
1,4-Dichlorobenzene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
2-Hexanone	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Acetone	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Benzene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Bromoform	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Bromomethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Carbon disulfide	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Carbon tetrachloride	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Chlorobenzene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Chlorodibromomethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Chloroethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Chloroform	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Chloromethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
cis-1,2-Dichloroethene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
cis-1,3-Dichloropropene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Dichlorobromomethane	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Ethylbenzene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
m-Xylene & p-Xylene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
2-Butanone (MEK)	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Methylene Chloride	<19		19		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
o-Xylene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Styrene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Tetrachloroethene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Toluene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
trans-1,2-Dichloroethene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
trans-1,3-Dichloropropene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Trichloroethene	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Vinyl chloride	<6.3		6.3		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1
Xylenes, Total	<13		13		ug/Kg	☼	12/15/16 07:18	12/15/16 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*12/15/16 07:18*	*12/15/16 09:17*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*12/15/16 07:18*	*12/15/16 09:17*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*12/15/16 07:18*	*12/15/16 09:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2-Chlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: B-5 0'-12'
Date Collected: 12/12/16 09:35
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-1
Matrix: Solid
Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2-Methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
3 & 4 Methylphenol	<840		840		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2-Nitrophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
4-Nitrophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Pentachlorophenol	<840		840		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Phenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Acenaphthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Acenaphthylene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Acetophenone	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Benzaldehyde	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Caprolactam	<420		420		ug/Kg	☼	12/15/16 07:59	12/16/16 14:10	1
Carbazole	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
4-Chloroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2-Chloronaphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Chrysene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Dibenzofuran	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Diethyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Dimethyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
1,1'-Biphenyl	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Fluorene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Hexachlorobenzene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Hexachloroethane	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1

Client Sample ID: B-5 0'-12'
Date Collected: 12/12/16 09:35
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-1
Matrix: Solid
Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Naphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
3-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
4-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Nitrobenzene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Phenanthrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
bis (2-chloroisopropyl) ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
2-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 18:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*10 - 150*	*12/15/16 07:59*	*12/16/16 14:10*	*1*
2,4,6-Tribromophenol (Surr)	*93*		*10 - 150*	*12/20/16 14:50*	*12/22/16 18:21*	*1*
2-Fluorobiphenyl	*59*		*27 - 127*	*12/15/16 07:59*	*12/16/16 14:10*	*1*
2-Fluorobiphenyl	*77*		*27 - 127*	*12/20/16 14:50*	*12/22/16 18:21*	*1*
2-Fluorophenol (Surr)	*60*		*25 - 128*	*12/15/16 07:59*	*12/16/16 14:10*	*1*
2-Fluorophenol (Surr)	*78*		*25 - 128*	*12/20/16 14:50*	*12/22/16 18:21*	*1*
Nitrobenzene-d5 (Surr)	*54*		*15 - 136*	*12/15/16 07:59*	*12/16/16 14:10*	*1*
Nitrobenzene-d5 (Surr)	*75*		*15 - 136*	*12/20/16 14:50*	*12/22/16 18:21*	*1*
Phenol-d5 (Surr)	*60*		*29 - 130*	*12/15/16 07:59*	*12/16/16 14:10*	*1*
Phenol-d5 (Surr)	*77*		*29 - 130*	*12/20/16 14:50*	*12/22/16 18:21*	*1*
Terphenyl-d14 (Surr)	*66*		*24 - 146*	*12/15/16 07:59*	*12/16/16 14:10*	*1*
Terphenyl-d14 (Surr)	*75*		*24 - 146*	*12/20/16 14:50*	*12/22/16 18:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<21	F1	21		ug/Kg	☼	12/23/16 07:24	12/28/16 13:25	1
PCB-1221	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 13:25	1
PCB-1232	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 13:25	1
PCB-1242	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 13:25	1
PCB-1248	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 13:25	1
PCB-1254	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 13:25	1
PCB-1260	<21	F1	21		ug/Kg	☼	12/23/16 07:24	12/28/16 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*26 - 129*	*12/23/16 07:24*	*12/28/16 13:25*	*1*
Tetrachloro-m-xylene	*37*		*31 - 122*	*12/23/16 07:24*	*12/28/16 13:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<6.0	F1	6.0		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Arsenic	**1.9**		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Beryllium	<0.36		0.36		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Cadmium	<0.60		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Chromium	**12**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Copper	**5.3**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: B-5 0'-12'
Date Collected: 12/12/16 09:35
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-1
Matrix: Solid
Percent Solids: 78.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.2		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Nickel	3.6		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Selenium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Silver	<0.60		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Zinc	9.7		2.4		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1
Thallium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:25	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.023		0.020		mg/Kg	☼	12/29/16 14:02	12/30/16 09:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	21.8		0.1		%			12/18/16 17:16	1

Client Sample ID: B-4 0'-16'
Date Collected: 12/12/16 10:09
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-2
Matrix: Solid
Percent Solids: 78.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,1,2,2-Tetrachloroethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,1,2-Trichloroethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,1-Dichloroethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,1-Dichloroethene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,2-Dichlorobenzene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,2-Dichloroethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,2-Dichloropropane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,3-Dichlorobenzene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
1,4-Dichlorobenzene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
2-Hexanone	<33		33		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Acetone	<33		33		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Benzene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Bromoform	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Bromomethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Carbon disulfide	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Carbon tetrachloride	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Chlorobenzene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Chlorodibromomethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Chloroethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Chloroform	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Chloromethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
cis-1,2-Dichloroethene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
cis-1,3-Dichloropropene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Dichlorobromomethane	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Ethylbenzene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
m-Xylene & p-Xylene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
2-Butanone (MEK)	<33		33		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
4-Methyl-2-pentanone (MIBK)	<33		33		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Methylene Chloride	<20		20		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
o-Xylene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Styrene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Tetrachloroethene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Toluene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
trans-1,2-Dichloroethene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
trans-1,3-Dichloropropene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Trichloroethene	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Vinyl chloride	<6.7		6.7		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1
Xylenes, Total	<13		13		ug/Kg	☼	12/15/16 07:18	12/15/16 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*12/15/16 07:18*	*12/15/16 10:58*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*12/15/16 07:18*	*12/15/16 10:58*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*12/15/16 07:18*	*12/15/16 10:58*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2-Chlorophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1

Client Sample ID: B-4 0'-16'
Date Collected: 12/12/16 10:09
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-2
Matrix: Solid
Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2,4-Dimethylphenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
4,6-Dinitro-2-methylphenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2-Methylphenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
3 & 4 Methylphenol	<830		830		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2-Nitrophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
4-Nitrophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Pentachlorophenol	<830		830		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Phenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Acenaphthene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Acenaphthylene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Acetophenone	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Anthracene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Benzaldehyde	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Benzo[a]anthracene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Benzo[a]pyrene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Benzo[b]fluoranthene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Butyl benzyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Caprolactam	<420		420		ug/Kg	☼	12/15/16 07:59	12/16/16 14:43	1
Carbazole	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
4-Chloroaniline	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2-Chloronaphthalene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Chrysene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Dibenzofuran	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Di-n-butyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Di-n-octyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
3,3'-Dichlorobenzidine	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Diethyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Dimethyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
1,1'-Biphenyl	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Bis(2-ethylhexyl) phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Fluoranthene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Fluorene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Hexachlorobenzene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Hexachlorobutadiene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Hexachloroethane	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Indeno[1,2,3-cd]pyrene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1

Client Sample ID: B-4 0'-16'
Date Collected: 12/12/16 10:09
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-2
Matrix: Solid
Percent Solids: 78.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Naphthalene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2-Methylnaphthalene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
3-Nitroaniline	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
4-Nitroaniline	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Nitrobenzene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Phenanthrene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Pyrene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
bis (2-chloroisopropyl) ether	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
2-Nitroaniline	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1
Benzo[g,h,i]perylene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 150*	*12/15/16 07:59*	*12/16/16 14:43*	*1*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*	*12/20/16 14:50*	*12/22/16 18:51*	*1*
2-Fluorobiphenyl	*60*		*27 - 127*	*12/15/16 07:59*	*12/16/16 14:43*	*1*
2-Fluorobiphenyl	*71*		*27 - 127*	*12/20/16 14:50*	*12/22/16 18:51*	*1*
2-Fluorophenol (Surr)	*62*		*25 - 128*	*12/15/16 07:59*	*12/16/16 14:43*	*1*
2-Fluorophenol (Surr)	*70*		*25 - 128*	*12/20/16 14:50*	*12/22/16 18:51*	*1*
Nitrobenzene-d5 (Surr)	*52*		*15 - 136*	*12/15/16 07:59*	*12/16/16 14:43*	*1*
Nitrobenzene-d5 (Surr)	*66*		*15 - 136*	*12/20/16 14:50*	*12/22/16 18:51*	*1*
Phenol-d5 (Surr)	*58*		*29 - 130*	*12/15/16 07:59*	*12/16/16 14:43*	*1*
Phenol-d5 (Surr)	*69*		*29 - 130*	*12/20/16 14:50*	*12/22/16 18:51*	*1*
Terphenyl-d14 (Surr)	*67*		*24 - 146*	*12/15/16 07:59*	*12/16/16 14:43*	*1*
Terphenyl-d14 (Surr)	*73*		*24 - 146*	*12/20/16 14:50*	*12/22/16 18:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<22		22		ug/Kg	☼	12/23/16 07:24	12/28/16 12:59	1
PCB-1221	<22		22		ug/Kg	☼	12/23/16 07:24	12/28/16 12:59	1
PCB-1232	<22		22		ug/Kg	☼	12/23/16 07:24	12/28/16 12:59	1
PCB-1242	<22		22		ug/Kg	☼	12/23/16 07:24	12/28/16 12:59	1
PCB-1248	<22		22		ug/Kg	☼	12/23/16 07:24	12/28/16 12:59	1
PCB-1254	<22		22		ug/Kg	☼	12/23/16 07:24	12/28/16 12:59	1
PCB-1260	<22		22		ug/Kg	☼	12/23/16 07:24	12/28/16 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*26 - 129*	*12/23/16 07:24*	*12/28/16 12:59*	*1*
Tetrachloro-m-xylene	*45*		*31 - 122*	*12/23/16 07:24*	*12/28/16 12:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.9		5.9		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Arsenic	**3.7**		0.59		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Beryllium	**0.47**		0.36		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Cadmium	<0.59		0.59		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Chromium	**10**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Copper	**4.2**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: B-4 0'-16'
Date Collected: 12/12/16 10:09
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-2
Matrix: Solid
Percent Solids: 78.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.7**		0.59		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Nickel	**4.6**		0.59		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Selenium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Silver	<0.59		0.59		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Zinc	**25**		2.4		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1
Thallium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:41	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	12/29/16 14:02	12/30/16 09:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.8**		0.1		%			12/18/16 16:53	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: B-1 0'-13'
Date Collected: 12/12/16 10:48
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-3
Matrix: Solid
Percent Solids: 78.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,1,2,2-Tetrachloroethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,1,2-Trichloroethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,1-Dichloroethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,1-Dichloroethene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,2-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,2-Dichloroethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,2-Dichloropropane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,3-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
1,4-Dichlorobenzene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
2-Hexanone	<32		32		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Acetone	<32		32		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Benzene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Bromoform	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Bromomethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Carbon disulfide	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Carbon tetrachloride	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Chlorobenzene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Chlorodibromomethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Chloroethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Chloroform	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Chloromethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
cis-1,2-Dichloroethene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
cis-1,3-Dichloropropene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Dichlorobromomethane	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Ethylbenzene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
m-Xylene & p-Xylene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
2-Butanone (MEK)	<32		32		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
4-Methyl-2-pentanone (MIBK)	<32		32		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Methylene Chloride	<19		19		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
o-Xylene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Styrene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Tetrachloroethene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Toluene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
trans-1,2-Dichloroethene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
trans-1,3-Dichloropropene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Trichloroethene	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Vinyl chloride	<6.4		6.4		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1
Xylenes, Total	<13		13		ug/Kg	☼	12/15/16 07:18	12/15/16 11:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*12/15/16 07:18*	*12/15/16 11:23*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*12/15/16 07:18*	*12/15/16 11:23*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*12/15/16 07:18*	*12/15/16 11:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2-Chlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1

Client Sample ID: B-1 0'-13'
Date Collected: 12/12/16 10:48
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-3
Matrix: Solid
Percent Solids: 78.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2-Methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
3 & 4 Methylphenol	<830		830		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2-Nitrophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
4-Nitrophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Pentachlorophenol	<830		830		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Phenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Acenaphthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Acenaphthylene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Acetophenone	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Benzaldehyde	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Caprolactam	<410		410		ug/Kg	☼	12/15/16 07:59	12/16/16 15:33	1
Carbazole	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
4-Chloroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2-Chloronaphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Chrysene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Dibenzofuran	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Diethyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Dimethyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
1,1'-Biphenyl	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Fluorene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Hexachlorobenzene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Hexachloroethane	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1

Client Sample ID: B-1 0'-13'
Date Collected: 12/12/16 10:48
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-3
Matrix: Solid
Percent Solids: 78.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Naphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
3-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
4-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Nitrobenzene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Phenanthrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
bis (2-chloroisopropyl) ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
2-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*100*		*10 - 150*	*12/15/16 07:59*	*12/16/16 15:33*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*12/20/16 14:50*	*12/22/16 19:21*	*1*
2-Fluorobiphenyl	*77*		*27 - 127*	*12/15/16 07:59*	*12/16/16 15:33*	*1*
2-Fluorobiphenyl	*68*		*27 - 127*	*12/20/16 14:50*	*12/22/16 19:21*	*1*
2-Fluorophenol (Surr)	*78*		*25 - 128*	*12/15/16 07:59*	*12/16/16 15:33*	*1*
2-Fluorophenol (Surr)	*70*		*25 - 128*	*12/20/16 14:50*	*12/22/16 19:21*	*1*
Nitrobenzene-d5 (Surr)	*67*		*15 - 136*	*12/15/16 07:59*	*12/16/16 15:33*	*1*
Nitrobenzene-d5 (Surr)	*67*		*15 - 136*	*12/20/16 14:50*	*12/22/16 19:21*	*1*
Phenol-d5 (Surr)	*76*		*29 - 130*	*12/15/16 07:59*	*12/16/16 15:33*	*1*
Phenol-d5 (Surr)	*68*		*29 - 130*	*12/20/16 14:50*	*12/22/16 19:21*	*1*
Terphenyl-d14 (Surr)	*86*		*24 - 146*	*12/15/16 07:59*	*12/16/16 15:33*	*1*
Terphenyl-d14 (Surr)	*72*		*24 - 146*	*12/20/16 14:50*	*12/22/16 19:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 12:33	1
PCB-1221	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 12:33	1
PCB-1232	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 12:33	1
PCB-1242	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 12:33	1
PCB-1248	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 12:33	1
PCB-1254	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 12:33	1
PCB-1260	<21		21		ug/Kg	☼	12/23/16 07:24	12/28/16 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*62*		*26 - 129*	*12/23/16 07:24*	*12/28/16 12:33*	*1*
Tetrachloro-m-xylene	*54*		*31 - 122*	*12/23/16 07:24*	*12/28/16 12:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.7		5.7		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Arsenic	**4.2**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Beryllium	**0.39**		0.34		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Cadmium	<0.57		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Chromium	**8.8**		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Copper	**3.7**		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: B-1 0'-13'
Date Collected: 12/12/16 10:48
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-3
Matrix: Solid
Percent Solids: 78.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**5.1**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Nickel	**6.4**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Selenium	<1.1		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Silver	<0.57		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Zinc	**20**		2.3		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1
Thallium	<1.1		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 18:44	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	12/29/16 14:02	12/30/16 09:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**21.7**		0.1		%			12/18/16 17:16	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-01 0'-11'
Date Collected: 12/12/16 11:06
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-4
Matrix: Solid
Percent Solids: 77.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,1,2,2-Tetrachloroethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,1,2-Trichloroethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,1-Dichloroethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,1-Dichloroethene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,2-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,2-Dichloroethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,2-Dichloropropane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,3-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
1,4-Dichlorobenzene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
2-Hexanone	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Acetone	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Benzene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Bromoform	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Bromomethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Carbon disulfide	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Carbon tetrachloride	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Chlorobenzene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Chlorodibromomethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Chloroethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Chloroform	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Chloromethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
cis-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
cis-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Dichlorobromomethane	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Ethylbenzene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
m-Xylene & p-Xylene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
2-Butanone (MEK)	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Methylene Chloride	<19		19		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
o-Xylene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Styrene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Tetrachloroethene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Toluene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
trans-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
trans-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Trichloroethene	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Vinyl chloride	<6.2		6.2		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1
Xylenes, Total	<12		12		ug/Kg	☼	12/15/16 07:18	12/15/16 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*102*		*72 - 122*	*12/15/16 07:18*	*12/15/16 11:48*	*1*
Dibromofluoromethane	*96*		*79 - 123*	*12/15/16 07:18*	*12/15/16 11:48*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*12/15/16 07:18*	*12/15/16 11:48*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2-Chlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1

Client Sample ID: SB-01 0'-11'
Date Collected: 12/12/16 11:06
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-4
Matrix: Solid
Percent Solids: 77.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2-Methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
3 & 4 Methylphenol	<830		830		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2-Nitrophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
4-Nitrophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Pentachlorophenol	<830		830		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Phenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Acenaphthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Acenaphthylene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Acetophenone	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Benzaldehyde	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Caprolactam	<420		420		ug/Kg	☼	12/15/16 07:59	12/16/16 16:06	1
Carbazole	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
4-Chloroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2-Chloronaphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Chrysene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Dibenzofuran	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Diethyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Dimethyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
1,1'-Biphenyl	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Fluorene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Hexachlorobenzene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Hexachloroethane	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1

Client Sample ID: SB-01 0'-11'
Date Collected: 12/12/16 11:06
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-4
Matrix: Solid
Percent Solids: 77.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Naphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
3-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
4-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Nitrobenzene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Phenanthrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
bis (2-chloroisopropyl) ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
2-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*12/15/16 07:59*	*12/16/16 16:06*	*1*
2,4,6-Tribromophenol (Surr)	*73*		*10 - 150*	*12/20/16 14:50*	*12/22/16 19:51*	*1*
2-Fluorobiphenyl	*68*		*27 - 127*	*12/15/16 07:59*	*12/16/16 16:06*	*1*
2-Fluorobiphenyl	*60*		*27 - 127*	*12/20/16 14:50*	*12/22/16 19:51*	*1*
2-Fluorophenol (Surr)	*66*		*25 - 128*	*12/15/16 07:59*	*12/16/16 16:06*	*1*
2-Fluorophenol (Surr)	*61*		*25 - 128*	*12/20/16 14:50*	*12/22/16 19:51*	*1*
Nitrobenzene-d5 (Surr)	*63*		*15 - 136*	*12/15/16 07:59*	*12/16/16 16:06*	*1*
Nitrobenzene-d5 (Surr)	*59*		*15 - 136*	*12/20/16 14:50*	*12/22/16 19:51*	*1*
Phenol-d5 (Surr)	*68*		*29 - 130*	*12/15/16 07:59*	*12/16/16 16:06*	*1*
Phenol-d5 (Surr)	*60*		*29 - 130*	*12/20/16 14:50*	*12/22/16 19:51*	*1*
Terphenyl-d14 (Surr)	*80*		*24 - 146*	*12/15/16 07:59*	*12/16/16 16:06*	*1*
Terphenyl-d14 (Surr)	*67*		*24 - 146*	*12/20/16 14:50*	*12/22/16 19:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:09	1
PCB-1221	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:09	1
PCB-1232	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:09	1
PCB-1242	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:09	1
PCB-1248	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:09	1
PCB-1254	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:09	1
PCB-1260	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*129*		*26 - 129*	*12/14/16 19:48*	*12/22/16 12:09*	*1*
Tetrachloro-m-xylene	*77*		*31 - 122*	*12/14/16 19:48*	*12/22/16 12:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<6.0		6.0		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Arsenic	**6.0**		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Beryllium	**0.48**		0.36		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Cadmium	<0.60		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Chromium	**8.5**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Copper	**3.2**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-01 0'-11'
Date Collected: 12/12/16 11:06
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-4
Matrix: Solid
Percent Solids: 77.6

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.6**		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Nickel	**7.1**		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Selenium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Silver	<0.60		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Zinc	**37**		2.4		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1
Thallium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 18:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	12/29/16 14:02	12/30/16 09:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.4**		0.1		%			12/18/16 17:16	1

Client Sample ID: SB-02 0'-10'
Date Collected: 12/12/16 11:22
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-5
Matrix: Solid
Percent Solids: 79.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,1,2,2-Tetrachloroethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,1,2-Trichloroethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
2-Hexanone	<30		30		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Acetone	<30		30		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Benzene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Bromoform	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Bromomethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Chloroethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Chloroform	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Chloromethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
m-Xylene & p-Xylene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
2-Butanone (MEK)	<30		30		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Methylene Chloride	<18		18		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
o-Xylene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Styrene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Tetrachloroethene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Toluene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Trichloroethene	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Vinyl chloride	<6.0		6.0		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1
Xylenes, Total	<12		12		ug/Kg	☼	12/15/16 07:18	12/15/16 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*103*		*72 - 122*	*12/15/16 07:18*	*12/15/16 12:13*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*12/15/16 07:18*	*12/15/16 12:13*	*1*
Toluene-d8 (Surr)	*96*		*80 - 120*	*12/15/16 07:18*	*12/15/16 12:13*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2-Chlorophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1

Client Sample ID: SB-02 0'-10'
Date Collected: 12/12/16 11:22
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-5
Matrix: Solid
Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2,4-Dimethylphenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
4,6-Dinitro-2-methylphenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2-Methylphenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
3 & 4 Methylphenol	<810		810		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2-Nitrophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
4-Nitrophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Pentachlorophenol	<810		810		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Phenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Acenaphthene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Acenaphthylene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Acetophenone	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Anthracene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Benzaldehyde	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Benzo[a]anthracene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Benzo[a]pyrene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Benzo[b]fluoranthene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Butyl benzyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Caprolactam	<410		410		ug/Kg	☼	12/15/16 07:59	12/16/16 16:40	1
Carbazole	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
4-Chloroaniline	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2-Chloronaphthalene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Chrysene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Dibenzofuran	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Di-n-butyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Di-n-octyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
3,3'-Dichlorobenzidine	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Diethyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Dimethyl phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
1,1'-Biphenyl	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Bis(2-ethylhexyl) phthalate	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Fluoranthene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Fluorene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Hexachlorobenzene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Hexachlorobutadiene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Hexachloroethane	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Indeno[1,2,3-cd]pyrene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1

Client Sample ID: SB-02 0'-10'
Date Collected: 12/12/16 11:22
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-5
Matrix: Solid
Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Naphthalene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2-Methylnaphthalene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
3-Nitroaniline	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
4-Nitroaniline	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Nitrobenzene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Phenanthrene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Pyrene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
bis (2-chloroisopropyl) ether	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
2-Nitroaniline	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1
Benzo[g,h,i]perylene	<410		410		ug/Kg	☼	12/20/16 14:50	12/22/16 20:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*	*12/15/16 07:59*	*12/16/16 16:40*	*1*
2,4,6-Tribromophenol (Surr)	*74*		*10 - 150*	*12/20/16 14:50*	*12/22/16 20:21*	*1*
2-Fluorobiphenyl	*72*		*27 - 127*	*12/15/16 07:59*	*12/16/16 16:40*	*1*
2-Fluorobiphenyl	*63*		*27 - 127*	*12/20/16 14:50*	*12/22/16 20:21*	*1*
2-Fluorophenol (Surr)	*74*		*25 - 128*	*12/15/16 07:59*	*12/16/16 16:40*	*1*
2-Fluorophenol (Surr)	*64*		*25 - 128*	*12/20/16 14:50*	*12/22/16 20:21*	*1*
Nitrobenzene-d5 (Surr)	*61*		*15 - 136*	*12/15/16 07:59*	*12/16/16 16:40*	*1*
Nitrobenzene-d5 (Surr)	*60*		*15 - 136*	*12/20/16 14:50*	*12/22/16 20:21*	*1*
Phenol-d5 (Surr)	*73*		*29 - 130*	*12/15/16 07:59*	*12/16/16 16:40*	*1*
Phenol-d5 (Surr)	*63*		*29 - 130*	*12/20/16 14:50*	*12/22/16 20:21*	*1*
Terphenyl-d14 (Surr)	*87*		*24 - 146*	*12/15/16 07:59*	*12/16/16 16:40*	*1*
Terphenyl-d14 (Surr)	*67*		*24 - 146*	*12/20/16 14:50*	*12/22/16 20:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:35	1
PCB-1221	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:35	1
PCB-1232	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:35	1
PCB-1242	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:35	1
PCB-1248	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:35	1
PCB-1254	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:35	1
PCB-1260	<21		21		ug/Kg	☼	12/14/16 19:48	12/22/16 12:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*141*	*X*	*26 - 129*	*12/14/16 19:48*	*12/22/16 12:35*	*1*
Tetrachloro-m-xylene	*93*		*31 - 122*	*12/14/16 19:48*	*12/22/16 12:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.7		5.7		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Arsenic	**3.5**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Beryllium	**0.58**		0.34		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Cadmium	<0.57		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Chromium	**8.9**		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Copper	**9.6**		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-02 0'-10'
Date Collected: 12/12/16 11:22
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-5
Matrix: Solid
Percent Solids: 79.8

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**64**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Nickel	**5.5**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Selenium	<1.1		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Silver	<0.57		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Zinc	**46**		2.3		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1
Thallium	<1.1		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:01	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.026**		0.020		mg/Kg	☼	12/29/16 14:02	12/30/16 09:45	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**20.2**		0.1		%			12/18/16 17:16	1

Client Sample ID: B-02 0'-22'
Date Collected: 12/12/16 12:50
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-6
Matrix: Solid
Percent Solids: 74.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,1,2,2-Tetrachloroethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,1,2-Trichloroethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,1-Dichloroethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,1-Dichloroethene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,2-Dichlorobenzene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,2-Dichloroethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,2-Dichloropropane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,3-Dichlorobenzene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
1,4-Dichlorobenzene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
2-Hexanone	<33		33		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Acetone	<33		33		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Benzene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Bromoform	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Bromomethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Carbon disulfide	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Carbon tetrachloride	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Chlorobenzene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Chlorodibromomethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Chloroethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Chloroform	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Chloromethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
cis-1,2-Dichloroethene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
cis-1,3-Dichloropropene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Dichlorobromomethane	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Ethylbenzene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
m-Xylene & p-Xylene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
2-Butanone (MEK)	<33		33		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
4-Methyl-2-pentanone (MIBK)	<33		33		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Methylene Chloride	<20		20		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
o-Xylene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Styrene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Tetrachloroethene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Toluene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
trans-1,2-Dichloroethene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
trans-1,3-Dichloropropene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Trichloroethene	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Vinyl chloride	<6.6		6.6		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1
Xylenes, Total	<13		13		ug/Kg	☼	12/15/16 07:18	12/15/16 12:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*101*		*72 - 122*	*12/15/16 07:18*	*12/15/16 12:38*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*12/15/16 07:18*	*12/15/16 12:38*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*12/15/16 07:18*	*12/15/16 12:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
4-Chloro-3-methylphenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2-Chlorophenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1

Client Sample ID: B-02 0'-22'
Date Collected: 12/12/16 12:50
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-6
Matrix: Solid
Percent Solids: 74.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2,4-Dimethylphenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
4,6-Dinitro-2-methylphenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2-Methylphenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
3 & 4 Methylphenol	<880		880		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2-Nitrophenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
4-Nitrophenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Pentachlorophenol	<880		880		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Phenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2,4,5-Trichlorophenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2,4,6-Trichlorophenol	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Acenaphthene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Acenaphthylene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Acetophenone	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Anthracene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Benzaldehyde	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Benzo[a]anthracene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Benzo[a]pyrene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Benzo[b]fluoranthene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Benzo[k]fluoranthene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
4-Bromophenyl phenyl ether	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Butyl benzyl phthalate	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Caprolactam	<430		430		ug/Kg	☼	12/15/16 07:59	12/16/16 17:14	1
Carbazole	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
4-Chloroaniline	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Bis(2-chloroethoxy)methane	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Bis(2-chloroethyl)ether	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2-Chloronaphthalene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
4-Chlorophenyl phenyl ether	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Chrysene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Dibenz(a,h)anthracene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Dibenzofuran	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Di-n-butyl phthalate	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Di-n-octyl phthalate	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
3,3'-Dichlorobenzidine	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Diethyl phthalate	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Dimethyl phthalate	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2,4-Dinitrotoluene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2,6-Dinitrotoluene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
1,1'-Biphenyl	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Bis(2-ethylhexyl) phthalate	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Fluoranthene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Fluorene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Hexachlorobenzene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Hexachlorobutadiene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Hexachlorocyclopentadiene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Hexachloroethane	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Indeno[1,2,3-cd]pyrene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1

Client Sample ID: B-02 0'-22'
Date Collected: 12/12/16 12:50
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-6
Matrix: Solid
Percent Solids: 74.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Naphthalene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2-Methylnaphthalene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
3-Nitroaniline	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
4-Nitroaniline	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Nitrobenzene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
N-Nitrosodiphenylamine	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
N-Nitrosodi-n-propylamine	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Phenanthrene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Pyrene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
bis (2-chloroisopropyl) ether	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
2-Nitroaniline	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1
Benzo[g,h,i]perylene	<440		440		ug/Kg	☼	12/20/16 14:50	12/22/16 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*91*		*10 - 150*	*12/15/16 07:59*	*12/16/16 17:14*	*1*
2,4,6-Tribromophenol (Surr)	*125*		*10 - 150*	*12/20/16 14:50*	*12/22/16 20:51*	*1*
2-Fluorobiphenyl	*73*		*27 - 127*	*12/15/16 07:59*	*12/16/16 17:14*	*1*
2-Fluorobiphenyl	*105*		*27 - 127*	*12/20/16 14:50*	*12/22/16 20:51*	*1*
2-Fluorophenol (Surr)	*76*		*25 - 128*	*12/15/16 07:59*	*12/16/16 17:14*	*1*
2-Fluorophenol (Surr)	*106*		*25 - 128*	*12/20/16 14:50*	*12/22/16 20:51*	*1*
Nitrobenzene-d5 (Surr)	*63*		*15 - 136*	*12/15/16 07:59*	*12/16/16 17:14*	*1*
Nitrobenzene-d5 (Surr)	*97*		*15 - 136*	*12/20/16 14:50*	*12/22/16 20:51*	*1*
Phenol-d5 (Surr)	*75*		*29 - 130*	*12/15/16 07:59*	*12/16/16 17:14*	*1*
Phenol-d5 (Surr)	*105*		*29 - 130*	*12/20/16 14:50*	*12/22/16 20:51*	*1*
Terphenyl-d14 (Surr)	*88*		*24 - 146*	*12/15/16 07:59*	*12/16/16 17:14*	*1*
Terphenyl-d14 (Surr)	*116*		*24 - 146*	*12/20/16 14:50*	*12/22/16 20:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<23		23		ug/Kg	☼	12/14/16 19:48	12/22/16 13:02	1
PCB-1221	<23		23		ug/Kg	☼	12/14/16 19:48	12/22/16 13:02	1
PCB-1232	<23		23		ug/Kg	☼	12/14/16 19:48	12/22/16 13:02	1
PCB-1242	<23		23		ug/Kg	☼	12/14/16 19:48	12/22/16 13:02	1
PCB-1248	<23		23		ug/Kg	☼	12/14/16 19:48	12/22/16 13:02	1
PCB-1254	<23		23		ug/Kg	☼	12/14/16 19:48	12/22/16 13:02	1
PCB-1260	<23		23		ug/Kg	☼	12/14/16 19:48	12/22/16 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*135*	*X*	*26 - 129*	*12/14/16 19:48*	*12/22/16 13:02*	*1*
Tetrachloro-m-xylene	*89*		*31 - 122*	*12/14/16 19:48*	*12/22/16 13:02*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<6.2		6.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Arsenic	**3.4**		0.62		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Beryllium	**0.74**		0.37		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Cadmium	<0.62		0.62		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Chromium	**10**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Copper	**5.4**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: B-02 0'-22'
Date Collected: 12/12/16 12:50
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-6
Matrix: Solid
Percent Solids: 74.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.3		0.62		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Nickel	7.4		0.62		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Selenium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Silver	<0.62		0.62		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Zinc	27		2.5		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1
Thallium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:04	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.021		0.020		mg/Kg	☼	12/29/16 14:02	12/30/16 10:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	26.0		0.1		%			12/18/16 17:16	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-5 0'-11'
Date Collected: 12/12/16 13:30
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-7
Matrix: Solid
Percent Solids: 82.0

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,1,2,2-Tetrachloroethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,1,2-Trichloroethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,1-Dichloroethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,1-Dichloroethene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,2-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,2-Dichloroethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,2-Dichloropropane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,3-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
1,4-Dichlorobenzene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
2-Hexanone	<29		29		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Acetone	**29**		29		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Benzene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Bromoform	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Bromomethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Carbon disulfide	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Carbon tetrachloride	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Chlorobenzene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Chlorodibromomethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Chloroethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Chloroform	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Chloromethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
cis-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
cis-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Dichlorobromomethane	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Ethylbenzene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
m-Xylene & p-Xylene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
2-Butanone (MEK)	<29		29		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Methylene Chloride	<17		17		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
o-Xylene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Styrene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Tetrachloroethene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Toluene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
trans-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
trans-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Trichloroethene	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Vinyl chloride	<5.8		5.8		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1
Xylenes, Total	<12		12		ug/Kg	☼	12/15/16 07:18	12/15/16 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*12/15/16 07:18*	*12/15/16 13:03*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*12/15/16 07:18*	*12/15/16 13:03*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*12/15/16 07:18*	*12/15/16 13:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
4-Chloro-3-methylphenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2-Chlorophenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1

Client Sample ID: SB-5 0'-11'
Date Collected: 12/12/16 13:30
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-7
Matrix: Solid
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2,4-Dimethylphenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
4,6-Dinitro-2-methylphenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2,4-Dinitrophenol	<1200		1200		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2-Methylphenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
3 & 4 Methylphenol	<780		780		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2-Nitrophenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
4-Nitrophenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Pentachlorophenol	<780		780		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Phenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2,4,5-Trichlorophenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2,4,6-Trichlorophenol	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Acenaphthene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Acenaphthylene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Acetophenone	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Anthracene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Benzaldehyde	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Benzo[a]anthracene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Benzo[a]pyrene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Benzo[b]fluoranthene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Benzo[k]fluoranthene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
4-Bromophenyl phenyl ether	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Butyl benzyl phthalate	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Caprolactam	<390		390		ug/Kg	☼	12/15/16 07:59	12/16/16 17:48	1
Carbazole	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
4-Chloroaniline	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Bis(2-chloroethoxy)methane	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Bis(2-chloroethyl)ether	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2-Chloronaphthalene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
4-Chlorophenyl phenyl ether	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Chrysene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Dibenz(a,h)anthracene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Dibenzofuran	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Di-n-butyl phthalate	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Di-n-octyl phthalate	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
3,3'-Dichlorobenzidine	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Diethyl phthalate	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Dimethyl phthalate	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2,4-Dinitrotoluene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2,6-Dinitrotoluene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
1,1'-Biphenyl	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Bis(2-ethylhexyl) phthalate	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Fluoranthene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Fluorene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Hexachlorobenzene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Hexachlorobutadiene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Hexachlorocyclopentadiene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Hexachloroethane	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Indeno[1,2,3-cd]pyrene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1

Client Sample ID: SB-5 0'-11'
Date Collected: 12/12/16 13:30
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-7
Matrix: Solid
Percent Solids: 82.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Naphthalene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2-Methylnaphthalene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
3-Nitroaniline	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
4-Nitroaniline	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Nitrobenzene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
N-Nitrosodiphenylamine	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
N-Nitrosodi-n-propylamine	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Phenanthrene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Pyrene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
bis (2-chloroisopropyl) ether	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
2-Nitroaniline	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1
Benzo[g,h,i]perylene	<390		390		ug/Kg	☼	12/20/16 14:50	12/22/16 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*87*		*10 - 150*	*12/15/16 07:59*	*12/16/16 17:48*	*1*
2,4,6-Tribromophenol (Surr)	*76*		*10 - 150*	*12/20/16 14:50*	*12/22/16 21:21*	*1*
2-Fluorobiphenyl	*68*		*27 - 127*	*12/15/16 07:59*	*12/16/16 17:48*	*1*
2-Fluorobiphenyl	*65*		*27 - 127*	*12/20/16 14:50*	*12/22/16 21:21*	*1*
2-Fluorophenol (Surr)	*69*		*25 - 128*	*12/15/16 07:59*	*12/16/16 17:48*	*1*
2-Fluorophenol (Surr)	*65*		*25 - 128*	*12/20/16 14:50*	*12/22/16 21:21*	*1*
Nitrobenzene-d5 (Surr)	*61*		*15 - 136*	*12/15/16 07:59*	*12/16/16 17:48*	*1*
Nitrobenzene-d5 (Surr)	*62*		*15 - 136*	*12/20/16 14:50*	*12/22/16 21:21*	*1*
Phenol-d5 (Surr)	*71*		*29 - 130*	*12/15/16 07:59*	*12/16/16 17:48*	*1*
Phenol-d5 (Surr)	*64*		*29 - 130*	*12/20/16 14:50*	*12/22/16 21:21*	*1*
Terphenyl-d14 (Surr)	*81*		*24 - 146*	*12/15/16 07:59*	*12/16/16 17:48*	*1*
Terphenyl-d14 (Surr)	*68*		*24 - 146*	*12/20/16 14:50*	*12/22/16 21:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<20		20		ug/Kg	☼	12/14/16 19:48	12/22/16 13:28	1
PCB-1221	<20		20		ug/Kg	☼	12/14/16 19:48	12/22/16 13:28	1
PCB-1232	<20		20		ug/Kg	☼	12/14/16 19:48	12/22/16 13:28	1
PCB-1242	<20		20		ug/Kg	☼	12/14/16 19:48	12/22/16 13:28	1
PCB-1248	<20		20		ug/Kg	☼	12/14/16 19:48	12/22/16 13:28	1
PCB-1254	<20		20		ug/Kg	☼	12/14/16 19:48	12/22/16 13:28	1
PCB-1260	<20		20		ug/Kg	☼	12/14/16 19:48	12/22/16 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*127*		*26 - 129*	*12/14/16 19:48*	*12/22/16 13:28*	*1*
Tetrachloro-m-xylene	*79*		*31 - 122*	*12/14/16 19:48*	*12/22/16 13:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.7		5.7		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Arsenic	**3.6**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Beryllium	<0.34		0.34		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Cadmium	<0.57		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Chromium	**9.3**		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Copper	**4.3**		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-5 0'-11'
Date Collected: 12/12/16 13:30
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-7
Matrix: Solid
Percent Solids: 82.0

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.9**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Nickel	**5.1**		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Selenium	<1.1		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Silver	<0.57		0.57		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Zinc	**21**		2.3		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1
Thallium	<1.1		1.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:07	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	12/29/16 14:02	12/30/16 10:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**18.0**		0.1		%			12/18/16 17:16	1

Client Sample ID: B-3 0'-14'
Date Collected: 12/12/16 13:55
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-8
Matrix: Solid
Percent Solids: 77.3

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,1,2,2-Tetrachloroethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,1,2-Trichloroethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,1-Dichloroethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,1-Dichloroethene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,2-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,2-Dichloroethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,2-Dichloropropane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,3-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
1,4-Dichlorobenzene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
2-Hexanone	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Acetone	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Benzene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Bromoform	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Bromomethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Carbon disulfide	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Carbon tetrachloride	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Chlorobenzene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Chlorodibromomethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Chloroethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Chloroform	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Chloromethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
cis-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
cis-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Dichlorobromomethane	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Ethylbenzene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
m-Xylene & p-Xylene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
2-Butanone (MEK)	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Methylene Chloride	<18		18		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
o-Xylene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Styrene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Tetrachloroethene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Toluene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
trans-1,2-Dichloroethene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
trans-1,3-Dichloropropene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Trichloroethene	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Vinyl chloride	<6.1		6.1		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1
Xylenes, Total	<12		12		ug/Kg	☼	12/15/16 07:18	12/15/16 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 122*	*12/15/16 07:18*	*12/15/16 13:28*	*1*
Dibromofluoromethane	*97*		*79 - 123*	*12/15/16 07:18*	*12/15/16 13:28*	*1*
Toluene-d8 (Surr)	*94*		*80 - 120*	*12/15/16 07:18*	*12/15/16 13:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2-Chlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1

Client Sample ID: B-3 0'-14'
Date Collected: 12/12/16 13:55
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-8
Matrix: Solid
Percent Solids: 77.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2,4-Dimethylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
4,6-Dinitro-2-methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2,4-Dinitrophenol	<1300		1300		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2-Methylphenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
3 & 4 Methylphenol	<840		840		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2-Nitrophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
4-Nitrophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Pentachlorophenol	<840		840		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Phenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Acenaphthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Acenaphthylene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Acetophenone	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Benzaldehyde	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Benzo[a]anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Benzo[a]pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Butyl benzyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Caprolactam	<420		420		ug/Kg	☼	12/15/16 07:59	12/16/16 18:22	1
Carbazole	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
4-Chloroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2-Chloronaphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Chrysene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Dibenzofuran	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Di-n-butyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Di-n-octyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
3,3'-Dichlorobenzidine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Diethyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Dimethyl phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
1,1'-Biphenyl	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Fluoranthene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Fluorene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Hexachlorobenzene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Hexachlorobutadiene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Hexachloroethane	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1

Client Sample ID: B-3 0'-14'
Date Collected: 12/12/16 13:55
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-8
Matrix: Solid
Percent Solids: 77.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Naphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2-Methylnaphthalene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
3-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
4-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Nitrobenzene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Phenanthrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Pyrene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
bis (2-chloroisopropyl) ether	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
2-Nitroaniline	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	12/20/16 14:50	12/22/16 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*12/15/16 07:59*	*12/16/16 18:22*	*1*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*	*12/20/16 14:50*	*12/22/16 21:51*	*1*
2-Fluorobiphenyl	*68*		*27 - 127*	*12/15/16 07:59*	*12/16/16 18:22*	*1*
2-Fluorobiphenyl	*67*		*27 - 127*	*12/20/16 14:50*	*12/22/16 21:51*	*1*
2-Fluorophenol (Surr)	*65*		*25 - 128*	*12/15/16 07:59*	*12/16/16 18:22*	*1*
2-Fluorophenol (Surr)	*69*		*25 - 128*	*12/20/16 14:50*	*12/22/16 21:51*	*1*
Nitrobenzene-d5 (Surr)	*59*		*15 - 136*	*12/15/16 07:59*	*12/16/16 18:22*	*1*
Nitrobenzene-d5 (Surr)	*65*		*15 - 136*	*12/20/16 14:50*	*12/22/16 21:51*	*1*
Phenol-d5 (Surr)	*66*		*29 - 130*	*12/15/16 07:59*	*12/16/16 18:22*	*1*
Phenol-d5 (Surr)	*68*		*29 - 130*	*12/20/16 14:50*	*12/22/16 21:51*	*1*
Terphenyl-d14 (Surr)	*78*		*24 - 146*	*12/15/16 07:59*	*12/16/16 18:22*	*1*
Terphenyl-d14 (Surr)	*68*		*24 - 146*	*12/20/16 14:50*	*12/22/16 21:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<22		22		ug/Kg	☼	12/14/16 19:48	12/22/16 13:54	1
PCB-1221	<22		22		ug/Kg	☼	12/14/16 19:48	12/22/16 13:54	1
PCB-1232	<22		22		ug/Kg	☼	12/14/16 19:48	12/22/16 13:54	1
PCB-1242	<22		22		ug/Kg	☼	12/14/16 19:48	12/22/16 13:54	1
PCB-1248	<22		22		ug/Kg	☼	12/14/16 19:48	12/22/16 13:54	1
PCB-1254	<22		22		ug/Kg	☼	12/14/16 19:48	12/22/16 13:54	1
PCB-1260	<22		22		ug/Kg	☼	12/14/16 19:48	12/22/16 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*148*	*X*	*26 - 129*	*12/14/16 19:48*	*12/22/16 13:54*	*1*
Tetrachloro-m-xylene	*97*		*31 - 122*	*12/14/16 19:48*	*12/22/16 13:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<6.0		6.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Arsenic	**6.8**		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Beryllium	**0.59**		0.36		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Cadmium	<0.60		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Chromium	**12**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Copper	**6.6**		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: B-3 0'-14'
Date Collected: 12/12/16 13:55
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-8
Matrix: Solid
Percent Solids: 77.3

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.6**		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Nickel	**8.0**		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Selenium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Silver	<0.60		0.60		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Zinc	**30**		2.4		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1
Thallium	<1.2		1.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:10	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.020		0.020		mg/Kg	☼	12/29/16 14:02	12/30/16 10:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**22.7**		0.1		%			12/18/16 16:53	1

Client Sample ID: B-6 0'-7'
Date Collected: 12/12/16 14:15
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-9
Matrix: Solid
Percent Solids: 88.4

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
2-Hexanone	<25		25		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Acetone	<25		25		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Benzene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Bromoform	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Bromomethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Carbon disulfide	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Carbon tetrachloride	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Chlorobenzene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Chlorodibromomethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Chloroethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Chloroform	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Chloromethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Dichlorobromomethane	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Ethylbenzene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
2-Butanone (MEK)	<25		25		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Methylene Chloride	<15		15		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
o-Xylene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Styrene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Tetrachloroethene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Toluene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Trichloroethene	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Vinyl chloride	<5.0		5.0		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1
Xylenes, Total	<10		10		ug/Kg	☼	12/16/16 08:39	12/16/16 11:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*12/16/16 08:39*	*12/16/16 11:21*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*12/16/16 08:39*	*12/16/16 11:21*	*1*
Toluene-d8 (Surr)	*93*		*80 - 120*	*12/16/16 08:39*	*12/16/16 11:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2-Chlorophenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1

Client Sample ID: B-6 0'-7'
Date Collected: 12/12/16 14:15
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-9
Matrix: Solid
Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2,4-Dimethylphenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
4,6-Dinitro-2-methylphenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2-Methylphenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
3 & 4 Methylphenol	<730		730		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2-Nitrophenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
4-Nitrophenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Pentachlorophenol	<730		730		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Phenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Acenaphthene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Acenaphthylene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Acetophenone	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Anthracene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Benzaldehyde	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Benzo[a]anthracene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Benzo[a]pyrene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Butyl benzyl phthalate	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Caprolactam	<370		370		ug/Kg	☼	12/15/16 07:59	12/16/16 18:55	1
Carbazole	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
4-Chloroaniline	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2-Chloronaphthalene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Chrysene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Dibenzofuran	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Di-n-butyl phthalate	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Di-n-octyl phthalate	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
3,3'-Dichlorobenzidine	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Diethyl phthalate	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Dimethyl phthalate	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
1,1'-Biphenyl	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Fluoranthene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Fluorene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Hexachlorobenzene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Hexachlorobutadiene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Hexachloroethane	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1

Client Sample ID: B-6 0'-7'
Date Collected: 12/12/16 14:15
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-9
Matrix: Solid
Percent Solids: 88.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Naphthalene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2-Methylnaphthalene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
3-Nitroaniline	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
4-Nitroaniline	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Nitrobenzene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Phenanthrene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Pyrene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
bis (2-chloroisopropyl) ether	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
2-Nitroaniline	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	12/20/16 14:50	12/22/16 22:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*66*		*10 - 150*	*12/15/16 07:59*	*12/16/16 18:55*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 150*	*12/20/16 14:50*	*12/22/16 22:21*	*1*
2-Fluorobiphenyl	*51*		*27 - 127*	*12/15/16 07:59*	*12/16/16 18:55*	*1*
2-Fluorobiphenyl	*68*		*27 - 127*	*12/20/16 14:50*	*12/22/16 22:21*	*1*
2-Fluorophenol (Surr)	*47*		*25 - 128*	*12/15/16 07:59*	*12/16/16 18:55*	*1*
2-Fluorophenol (Surr)	*70*		*25 - 128*	*12/20/16 14:50*	*12/22/16 22:21*	*1*
Nitrobenzene-d5 (Surr)	*48*		*15 - 136*	*12/15/16 07:59*	*12/16/16 18:55*	*1*
Nitrobenzene-d5 (Surr)	*67*		*15 - 136*	*12/20/16 14:50*	*12/22/16 22:21*	*1*
Phenol-d5 (Surr)	*48*		*29 - 130*	*12/15/16 07:59*	*12/16/16 18:55*	*1*
Phenol-d5 (Surr)	*68*		*29 - 130*	*12/20/16 14:50*	*12/22/16 22:21*	*1*
Terphenyl-d14 (Surr)	*58*		*24 - 146*	*12/15/16 07:59*	*12/16/16 18:55*	*1*
Terphenyl-d14 (Surr)	*72*		*24 - 146*	*12/20/16 14:50*	*12/22/16 22:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.2		5.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Arsenic	**1.9**		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Beryllium	<0.31		0.31		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Cadmium	<0.52		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Chromium	**7.5**		1.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Copper	**5.9**		1.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Lead	**9.0**		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Nickel	**1.6**		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Selenium	<1.0		1.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Silver	<0.52		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Zinc	**4.4**		2.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1
Thallium	<1.0		1.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	12/29/16 14:02	12/30/16 10:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**11.6**		0.1		%			12/18/16 16:53	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-3 0'-12'
Date Collected: 12/12/16 14:50
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-10
Matrix: Solid
Percent Solids: 87.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,1,2,2-Tetrachloroethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,1,2-Trichloroethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,1-Dichloroethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,1-Dichloroethene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,2-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,2-Dichloroethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,2-Dichloropropane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,3-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
1,4-Dichlorobenzene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
2-Hexanone	<28		28		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Acetone	**45**		28		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Benzene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Bromoform	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Bromomethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Carbon disulfide	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Carbon tetrachloride	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Chlorobenzene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Chlorodibromomethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Chloroethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Chloroform	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Chloromethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
cis-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
cis-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Dichlorobromomethane	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Ethylbenzene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
m-Xylene & p-Xylene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
2-Butanone (MEK)	<28		28		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Methylene Chloride	<17		17		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
o-Xylene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Styrene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Tetrachloroethene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Toluene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
trans-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
trans-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Trichloroethene	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Vinyl chloride	<5.7		5.7		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1
Xylenes, Total	<11		11		ug/Kg	☼	12/16/16 08:39	12/16/16 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*12/16/16 08:39*	*12/16/16 13:27*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*12/16/16 08:39*	*12/16/16 13:27*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*12/16/16 08:39*	*12/16/16 13:27*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2-Chlorophenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1

Client Sample ID: SB-3 0'-12'
Date Collected: 12/12/16 14:50
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-10
Matrix: Solid
Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2-Methylphenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
3 & 4 Methylphenol	<730		730		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2-Nitrophenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
4-Nitrophenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Pentachlorophenol	<730		730		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Phenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Acenaphthene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Acenaphthylene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Acetophenone	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Anthracene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Benzaldehyde	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Caprolactam	<370		370		ug/Kg	☼	12/15/16 07:59	12/16/16 19:28	1
Carbazole	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
4-Chloroaniline	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2-Chloronaphthalene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Chrysene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Dibenzofuran	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Diethyl phthalate	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Dimethyl phthalate	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
1,1'-Biphenyl	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Fluoranthene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Fluorene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Hexachlorobenzene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Hexachloroethane	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1

Client Sample ID: SB-3 0'-12'
Date Collected: 12/12/16 14:50
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-10
Matrix: Solid
Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Naphthalene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2-Methylnaphthalene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
3-Nitroaniline	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
4-Nitroaniline	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Nitrobenzene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Phenanthrene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Pyrene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
bis (2-chloroisopropyl) ether	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
2-Nitroaniline	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	12/20/16 14:50	12/22/16 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*68*		*10 - 150*	*12/15/16 07:59*	*12/16/16 19:28*	*1*
2,4,6-Tribromophenol (Surr)	*91*		*10 - 150*	*12/20/16 14:50*	*12/22/16 22:51*	*1*
2-Fluorobiphenyl	*56*		*27 - 127*	*12/15/16 07:59*	*12/16/16 19:28*	*1*
2-Fluorobiphenyl	*72*		*27 - 127*	*12/20/16 14:50*	*12/22/16 22:51*	*1*
2-Fluorophenol (Surr)	*55*		*25 - 128*	*12/15/16 07:59*	*12/16/16 19:28*	*1*
2-Fluorophenol (Surr)	*73*		*25 - 128*	*12/20/16 14:50*	*12/22/16 22:51*	*1*
Nitrobenzene-d5 (Surr)	*55*		*15 - 136*	*12/15/16 07:59*	*12/16/16 19:28*	*1*
Nitrobenzene-d5 (Surr)	*70*		*15 - 136*	*12/20/16 14:50*	*12/22/16 22:51*	*1*
Phenol-d5 (Surr)	*55*		*29 - 130*	*12/15/16 07:59*	*12/16/16 19:28*	*1*
Phenol-d5 (Surr)	*71*		*29 - 130*	*12/20/16 14:50*	*12/22/16 22:51*	*1*
Terphenyl-d14 (Surr)	*66*		*24 - 146*	*12/15/16 07:59*	*12/16/16 19:28*	*1*
Terphenyl-d14 (Surr)	*74*		*24 - 146*	*12/20/16 14:50*	*12/22/16 22:51*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<19		19		ug/Kg	☼	12/14/16 19:48	12/22/16 14:21	1
PCB-1221	<19		19		ug/Kg	☼	12/14/16 19:48	12/22/16 14:21	1
PCB-1232	<19		19		ug/Kg	☼	12/14/16 19:48	12/22/16 14:21	1
PCB-1242	<19		19		ug/Kg	☼	12/14/16 19:48	12/22/16 14:21	1
PCB-1248	<19		19		ug/Kg	☼	12/14/16 19:48	12/22/16 14:21	1
PCB-1254	<19		19		ug/Kg	☼	12/14/16 19:48	12/22/16 14:21	1
PCB-1260	<19		19		ug/Kg	☼	12/14/16 19:48	12/22/16 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*133*	*X*	*26 - 129*	*12/14/16 19:48*	*12/22/16 14:21*	*1*
Tetrachloro-m-xylene	*77*		*31 - 122*	*12/14/16 19:48*	*12/22/16 14:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.2		5.2		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Arsenic	**2.5**		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Beryllium	<0.31		0.31		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Cadmium	<0.52		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Chromium	**5.7**		1.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Copper	**2.1**		1.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-3 0'-12'
Date Collected: 12/12/16 14:50
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-10
Matrix: Solid
Percent Solids: 87.2

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.4**		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Nickel	**3.4**		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Selenium	<1.0		1.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Silver	<0.52		0.52		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Zinc	**13**		2.1		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1
Thallium	<1.0		1.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:17	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	12/29/16 14:02	12/30/16 10:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.8**		0.1		%			12/18/16 16:53	1

Client Sample ID: SB-4 0'-12'
Date Collected: 12/12/16 15:05
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-11
Matrix: Solid
Percent Solids: 92.7

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,1,2,2-Tetrachloroethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,1,2-Trichloroethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,1-Dichloroethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,1-Dichloroethene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,2-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,2-Dichloroethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,2-Dichloropropane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,3-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
1,4-Dichlorobenzene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
2-Hexanone	<30		30		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Acetone	<30		30		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Benzene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Bromoform	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Bromomethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Carbon disulfide	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Carbon tetrachloride	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Chlorobenzene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Chlorodibromomethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Chloroethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Chloroform	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Chloromethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
cis-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
cis-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Dichlorobromomethane	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Ethylbenzene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
m-Xylene & p-Xylene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
2-Butanone (MEK)	<30		30		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Methylene Chloride	<18		18		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
o-Xylene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Styrene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Tetrachloroethene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Toluene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
trans-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
trans-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Trichloroethene	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Vinyl chloride	<5.9		5.9		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1
Xylenes, Total	<12		12		ug/Kg	☼	12/16/16 08:39	12/16/16 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*12/16/16 08:39*	*12/16/16 13:52*	*1*
Dibromofluoromethane	*99*		*79 - 123*	*12/16/16 08:39*	*12/16/16 13:52*	*1*
Toluene-d8 (Surr)	*97*		*80 - 120*	*12/16/16 08:39*	*12/16/16 13:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
4-Chloro-3-methylphenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2-Chlorophenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1

Client Sample ID: SB-4 0'-12'
Date Collected: 12/12/16 15:05
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-11
Matrix: Solid
Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2,4-Dimethylphenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
4,6-Dinitro-2-methylphenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2-Methylphenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
3 & 4 Methylphenol	<700		700		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2-Nitrophenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
4-Nitrophenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Pentachlorophenol	<700		700		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Phenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2,4,5-Trichlorophenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2,4,6-Trichlorophenol	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Acenaphthene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Acenaphthylene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Acetophenone	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Anthracene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Benzaldehyde	<350	F1	350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Benzo[a]anthracene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Benzo[a]pyrene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Benzo[b]fluoranthene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Benzo[k]fluoranthene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
4-Bromophenyl phenyl ether	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Butyl benzyl phthalate	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Caprolactam	<350		350		ug/Kg	☼	12/15/16 07:59	12/16/16 13:37	1
Carbazole	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
4-Chloroaniline	<350	F1	350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Bis(2-chloroethoxy)methane	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Bis(2-chloroethyl)ether	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2-Chloronaphthalene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
4-Chlorophenyl phenyl ether	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Chrysene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Dibenz(a,h)anthracene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Dibenzofuran	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Di-n-butyl phthalate	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Di-n-octyl phthalate	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
3,3'-Dichlorobenzidine	<350	F1 F2	350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Diethyl phthalate	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Dimethyl phthalate	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2,4-Dinitrotoluene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2,6-Dinitrotoluene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
1,1'-Biphenyl	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Bis(2-ethylhexyl) phthalate	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Fluoranthene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Fluorene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Hexachlorobenzene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Hexachlorobutadiene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Hexachlorocyclopentadiene	<350	F1 F2	350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Hexachloroethane	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Indeno[1,2,3-cd]pyrene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1

Client Sample ID: SB-4 0'-12'
Date Collected: 12/12/16 15:05
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-11
Matrix: Solid
Percent Solids: 92.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Naphthalene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2-Methylnaphthalene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
3-Nitroaniline	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
4-Nitroaniline	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Nitrobenzene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
N-Nitrosodiphenylamine	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
N-Nitrosodi-n-propylamine	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Phenanthrene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Pyrene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
bis (2-chloroisopropyl) ether	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
2-Nitroaniline	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1
Benzo[g,h,i]perylene	<350		350		ug/Kg	☼	12/20/16 14:50	12/22/16 23:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*	*12/15/16 07:59*	*12/16/16 13:37*	*1*
2,4,6-Tribromophenol (Surr)	*80*		*10 - 150*	*12/20/16 14:50*	*12/22/16 23:21*	*1*
2-Fluorobiphenyl	*66*		*27 - 127*	*12/15/16 07:59*	*12/16/16 13:37*	*1*
2-Fluorobiphenyl	*64*		*27 - 127*	*12/20/16 14:50*	*12/22/16 23:21*	*1*
2-Fluorophenol (Surr)	*61*		*25 - 128*	*12/15/16 07:59*	*12/16/16 13:37*	*1*
2-Fluorophenol (Surr)	*65*		*25 - 128*	*12/20/16 14:50*	*12/22/16 23:21*	*1*
Nitrobenzene-d5 (Surr)	*57*		*15 - 136*	*12/15/16 07:59*	*12/16/16 13:37*	*1*
Nitrobenzene-d5 (Surr)	*63*		*15 - 136*	*12/20/16 14:50*	*12/22/16 23:21*	*1*
Phenol-d5 (Surr)	*61*		*29 - 130*	*12/15/16 07:59*	*12/16/16 13:37*	*1*
Phenol-d5 (Surr)	*64*		*29 - 130*	*12/20/16 14:50*	*12/22/16 23:21*	*1*
Terphenyl-d14 (Surr)	*77*		*24 - 146*	*12/15/16 07:59*	*12/16/16 13:37*	*1*
Terphenyl-d14 (Surr)	*69*		*24 - 146*	*12/20/16 14:50*	*12/22/16 23:21*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<18		18		ug/Kg	☼	12/14/16 19:48	12/22/16 14:47	1
PCB-1221	<18		18		ug/Kg	☼	12/14/16 19:48	12/22/16 14:47	1
PCB-1232	<18		18		ug/Kg	☼	12/14/16 19:48	12/22/16 14:47	1
PCB-1242	<18		18		ug/Kg	☼	12/14/16 19:48	12/22/16 14:47	1
PCB-1248	<18		18		ug/Kg	☼	12/14/16 19:48	12/22/16 14:47	1
PCB-1254	<18		18		ug/Kg	☼	12/14/16 19:48	12/22/16 14:47	1
PCB-1260	<18		18		ug/Kg	☼	12/14/16 19:48	12/22/16 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*147*	*X*	*26 - 129*	*12/14/16 19:48*	*12/22/16 14:47*	*1*
Tetrachloro-m-xylene	*82*		*31 - 122*	*12/14/16 19:48*	*12/22/16 14:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<4.9		4.9		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Arsenic	**9.2**		0.49		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Beryllium	<0.29		0.29		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Cadmium	<0.49		0.49		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Chromium	**8.7**		0.98		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Copper	**2.9**		0.98		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-4 0'-12'
Date Collected: 12/12/16 15:05
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-11
Matrix: Solid
Percent Solids: 92.7

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**4.4**		0.49		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Nickel	**7.3**		0.49		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Selenium	<0.98		0.98		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Silver	<0.49		0.49		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Zinc	**37**		2.0		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1
Thallium	<0.98		0.98		mg/Kg	☼	12/20/16 13:55	12/22/16 19:20	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	12/29/16 14:02	12/30/16 10:30	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.3**		0.1		%			12/18/16 16:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-335120/1-A
Matrix: Solid
Analysis Batch: 335102

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335120

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
2-Hexanone	<25		25		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Acetone	<25		25		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Benzene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Bromoform	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Bromomethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Carbon disulfide	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Chlorobenzene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Chloroethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Chloroform	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Chloromethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Ethylbenzene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
2-Butanone (MEK)	<25		25		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Methylene Chloride	<15		15		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
o-Xylene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Styrene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Tetrachloroethene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Toluene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Trichloroethene	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Vinyl chloride	<5.0		5.0		ug/Kg		12/15/16 07:18	12/15/16 08:52	1
Xylenes, Total	<10		10		ug/Kg		12/15/16 07:18	12/15/16 08:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*12/15/16 07:18*	*12/15/16 08:52*	*1*
Dibromofluoromethane	*98*		*79 - 123*	*12/15/16 07:18*	*12/15/16 08:52*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*12/15/16 07:18*	*12/15/16 08:52*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335120/2-A
Matrix: Solid
Analysis Batch: 335102

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335120

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	50.9		ug/Kg		102	63 - 130
1,1,2,2-Tetrachloroethane	50.0	49.8		ug/Kg		100	60 - 131
1,1,2-Trichloroethane	50.0	48.7		ug/Kg		97	65 - 130
1,1-Dichloroethane	50.0	51.8		ug/Kg		104	59 - 130
1,1-Dichloroethene	50.0	50.8		ug/Kg		102	55 - 137
1,2-Dichlorobenzene	50.0	51.3		ug/Kg		103	64 - 130
1,2-Dichloroethane	50.0	50.7		ug/Kg		101	62 - 130
1,2-Dichloropropane	50.0	50.8		ug/Kg		102	64 - 130
1,3-Dichlorobenzene	50.0	51.5		ug/Kg		103	66 - 130
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	65 - 130
2-Hexanone	200	214		ug/Kg		107	57 - 131
Acetone	200	208		ug/Kg		104	48 - 160
Benzene	50.0	51.4		ug/Kg		103	65 - 130
Bromoform	50.0	51.3		ug/Kg		103	52 - 136
Bromomethane	50.0	49.7		ug/Kg		99	12 - 160
Carbon disulfide	50.0	50.5		ug/Kg		101	46 - 141
Carbon tetrachloride	50.0	51.7		ug/Kg		103	60 - 130
Chlorobenzene	50.0	49.8		ug/Kg		100	70 - 130
Chlorodibromomethane	50.0	50.4		ug/Kg		101	58 - 132
Chloroethane	50.0	53.9		ug/Kg		108	55 - 134
Chloroform	50.0	50.4		ug/Kg		101	62 - 130
Chloromethane	50.0	50.5		ug/Kg		101	49 - 136
cis-1,2-Dichloroethene	50.0	50.3		ug/Kg		101	53 - 135
cis-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	61 - 130
Dichlorobromomethane	50.0	51.9		ug/Kg		104	61 - 130
Ethylbenzene	50.0	50.9		ug/Kg		102	70 - 130
m-Xylene & p-Xylene	50.0	50.4		ug/Kg		101	70 - 130
2-Butanone (MEK)	200	217		ug/Kg		108	55 - 130
4-Methyl-2-pentanone (MIBK)	200	215		ug/Kg		108	58 - 130
Methylene Chloride	50.0	55.8		ug/Kg		112	57 - 132
o-Xylene	50.0	49.8		ug/Kg		100	70 - 130
Styrene	50.0	49.5		ug/Kg		99	68 - 130
Tetrachloroethene	50.0	51.9		ug/Kg		104	67 - 130
Toluene	50.0	49.0		ug/Kg		98	70 - 130
trans-1,2-Dichloroethene	50.0	53.4		ug/Kg		107	58 - 134
trans-1,3-Dichloropropene	50.0	51.3		ug/Kg		103	60 - 130
Trichloroethene	50.0	52.7		ug/Kg		105	65 - 130
Vinyl chloride	50.0	51.2		ug/Kg		102	52 - 132
Xylenes, Total	100	100		ug/Kg		100	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 122*
Dibromofluoromethane	*102*		*79 - 123*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131381-1 MS
Matrix: Solid
Analysis Batch: 335102

Client Sample ID: B-5 0'-12'
Prep Type: Total/NA
Prep Batch: 335120

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<6.3		63.7	62.5		ug/Kg	☼	98	41 - 130
1,1,2,2-Tetrachloroethane	<6.3		63.7	55.8		ug/Kg	☼	88	10 - 149
1,1,2-Trichloroethane	<6.3		63.7	57.0		ug/Kg	☼	90	37 - 130
1,1-Dichloroethane	<6.3		63.7	60.8		ug/Kg	☼	95	41 - 130
1,1-Dichloroethene	<6.3		63.7	59.5		ug/Kg	☼	93	39 - 138
1,2-Dichlorobenzene	<6.3		63.7	53.0		ug/Kg	☼	83	20 - 130
1,2-Dichloroethane	<6.3		63.7	59.5		ug/Kg	☼	93	37 - 130
1,2-Dichloropropane	<6.3		63.7	59.3		ug/Kg	☼	93	39 - 130
1,3-Dichlorobenzene	<6.3		63.7	55.8		ug/Kg	☼	88	22 - 130
1,4-Dichlorobenzene	<6.3		63.7	54.4		ug/Kg	☼	85	21 - 130
2-Hexanone	<31		255	212		ug/Kg	☼	83	20 - 142
Acetone	<31		255	170		ug/Kg	☼	67	10 - 160
Benzene	<6.3		63.7	61.0		ug/Kg	☼	96	38 - 131
Bromoform	<6.3		63.7	57.4		ug/Kg	☼	90	24 - 136
Bromomethane	<6.3		63.7	63.2		ug/Kg	☼	99	10 - 160
Carbon disulfide	<6.3		63.7	59.1		ug/Kg	☼	93	29 - 141
Carbon tetrachloride	<6.3		63.7	63.7		ug/Kg	☼	100	36 - 134
Chlorobenzene	<6.3		63.7	59.2		ug/Kg	☼	93	37 - 130
Chlorodibromomethane	<6.3		63.7	59.9		ug/Kg	☼	94	32 - 132
Chloroethane	<6.3		63.7	58.4		ug/Kg	☼	92	36 - 139
Chloroform	<6.3		63.7	59.8		ug/Kg	☼	94	39 - 130
Chloromethane	<6.3		63.7	56.1		ug/Kg	☼	88	35 - 136
cis-1,2-Dichloroethene	<6.3		63.7	58.8		ug/Kg	☼	92	32 - 135
cis-1,3-Dichloropropene	<6.3		63.7	57.7		ug/Kg	☼	91	34 - 130
Dichlorobromomethane	<6.3		63.7	59.2		ug/Kg	☼	93	37 - 130
Ethylbenzene	<6.3		63.7	60.6		ug/Kg	☼	95	35 - 130
m-Xylene & p-Xylene	<6.3		63.7	59.9		ug/Kg	☼	94	35 - 130
2-Butanone (MEK)	<31		255	215		ug/Kg	☼	84	19 - 139
4-Methyl-2-pentanone (MIBK)	<31		255	222		ug/Kg	☼	87	21 - 144
Methylene Chloride	<19		63.7	59.5		ug/Kg	☼	93	36 - 132
o-Xylene	<6.3		63.7	58.5		ug/Kg	☼	92	35 - 130
Styrene	<6.3		63.7	53.9		ug/Kg	☼	85	31 - 130
Tetrachloroethene	<6.3		63.7	60.3		ug/Kg	☼	95	27 - 147
Toluene	<6.3		63.7	60.8		ug/Kg	☼	95	42 - 130
trans-1,2-Dichloroethene	<6.3		63.7	63.1		ug/Kg	☼	99	40 - 134
trans-1,3-Dichloropropene	<6.3		63.7	57.1		ug/Kg	☼	90	31 - 130
Trichloroethene	<6.3		63.7	62.5		ug/Kg	☼	98	34 - 144
Vinyl chloride	<6.3		63.7	57.8		ug/Kg	☼	91	35 - 136
Xylenes, Total	<13		127	118		ug/Kg	☼	93	35 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*101*		*72 - 122*
Dibromofluoromethane	*104*		*79 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131381-1 MSD
Matrix: Solid
Analysis Batch: 335102

Client Sample ID: B-5 0'-12'
Prep Type: Total/NA
Prep Batch: 335120

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<6.3		62.0	56.2		ug/Kg	☼	91	41 - 130	11	40
1,1,2,2-Tetrachloroethane	<6.3		62.0	51.2		ug/Kg	☼	83	10 - 149	9	44
1,1,2-Trichloroethane	<6.3		62.0	50.8		ug/Kg	☼	82	37 - 130	12	33
1,1-Dichloroethane	<6.3		62.0	56.1		ug/Kg	☼	91	41 - 130	8	35
1,1-Dichloroethene	<6.3		62.0	54.7		ug/Kg	☼	88	39 - 138	8	37
1,2-Dichlorobenzene	<6.3		62.0	48.3		ug/Kg	☼	78	20 - 130	9	40
1,2-Dichloroethane	<6.3		62.0	53.7		ug/Kg	☼	87	37 - 130	10	32
1,2-Dichloropropane	<6.3		62.0	53.9		ug/Kg	☼	87	39 - 130	10	35
1,3-Dichlorobenzene	<6.3		62.0	49.6		ug/Kg	☼	80	22 - 130	12	41
1,4-Dichlorobenzene	<6.3		62.0	48.1		ug/Kg	☼	78	21 - 130	12	40
2-Hexanone	<31		248	194		ug/Kg	☼	78	20 - 142	9	37
Acetone	<31		248	168		ug/Kg	☼	68	10 - 160	1	38
Benzene	<6.3		62.0	55.0		ug/Kg	☼	89	38 - 131	10	36
Bromoform	<6.3		62.0	51.2		ug/Kg	☼	83	24 - 136	12	34
Bromomethane	<6.3		62.0	65.0		ug/Kg	☼	105	10 - 160	3	47
Carbon disulfide	<6.3		62.0	53.9		ug/Kg	☼	87	29 - 141	9	39
Carbon tetrachloride	<6.3		62.0	58.0		ug/Kg	☼	94	36 - 134	9	44
Chlorobenzene	<6.3		62.0	52.1		ug/Kg	☼	84	37 - 130	13	37
Chlorodibromomethane	<6.3		62.0	52.6		ug/Kg	☼	85	32 - 132	13	34
Chloroethane	<6.3		62.0	58.7		ug/Kg	☼	95	36 - 139	0	42
Chloroform	<6.3		62.0	54.1		ug/Kg	☼	87	39 - 130	10	35
Chloromethane	<6.3		62.0	55.1		ug/Kg	☼	89	35 - 136	2	41
cis-1,2-Dichloroethene	<6.3		62.0	53.3		ug/Kg	☼	86	32 - 135	10	35
cis-1,3-Dichloropropene	<6.3		62.0	53.9		ug/Kg	☼	87	34 - 130	7	35
Dichlorobromomethane	<6.3		62.0	54.9		ug/Kg	☼	89	37 - 130	7	34
Ethylbenzene	<6.3		62.0	53.7		ug/Kg	☼	87	35 - 130	12	46
m-Xylene & p-Xylene	<6.3		62.0	52.4		ug/Kg	☼	85	35 - 130	13	42
2-Butanone (MEK)	<31		248	203		ug/Kg	☼	82	19 - 139	6	41
4-Methyl-2-pentanone (MIBK)	<31		248	208		ug/Kg	☼	84	21 - 144	6	39
Methylene Chloride	<19		62.0	55.0		ug/Kg	☼	89	36 - 132	8	38
o-Xylene	<6.3		62.0	51.8		ug/Kg	☼	84	35 - 130	12	37
Styrene	<6.3		62.0	48.9		ug/Kg	☼	79	31 - 130	10	39
Tetrachloroethene	<6.3		62.0	51.6		ug/Kg	☼	83	27 - 147	16	44
Toluene	<6.3		62.0	52.8		ug/Kg	☼	85	42 - 130	14	37
trans-1,2-Dichloroethene	<6.3		62.0	57.6		ug/Kg	☼	93	40 - 134	9	38
trans-1,3-Dichloropropene	<6.3		62.0	50.5		ug/Kg	☼	81	31 - 130	12	34
Trichloroethene	<6.3		62.0	57.2		ug/Kg	☼	92	34 - 144	9	42
Vinyl chloride	<6.3		62.0	57.1		ug/Kg	☼	92	35 - 136	1	43
Xylenes, Total	<13		124	104		ug/Kg	☼	84	35 - 130	13	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*98*		*72 - 122*
Dibromofluoromethane	*101*		*79 - 123*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-335338/1-A
Matrix: Solid
Analysis Batch: 335285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335338

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
2-Hexanone	<25		25		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Acetone	<25		25		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Benzene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Bromoform	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Bromomethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Carbon disulfide	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Carbon tetrachloride	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Chlorobenzene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Chlorodibromomethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Chloroethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Chloroform	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Chloromethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Dichlorobromomethane	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Ethylbenzene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
m-Xylene & p-Xylene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
2-Butanone (MEK)	<25		25		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Methylene Chloride	<15		15		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
o-Xylene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Styrene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Tetrachloroethene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Toluene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Trichloroethene	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Vinyl chloride	<5.0		5.0		ug/Kg		12/16/16 08:39	12/16/16 10:18	1
Xylenes, Total	<10		10		ug/Kg		12/16/16 08:39	12/16/16 10:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*99*		*72 - 122*	*12/16/16 08:39*	*12/16/16 10:18*	*1*
Dibromofluoromethane	*100*		*79 - 123*	*12/16/16 08:39*	*12/16/16 10:18*	*1*
Toluene-d8 (Surr)	*95*		*80 - 120*	*12/16/16 08:39*	*12/16/16 10:18*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335338/2-A
Matrix: Solid
Analysis Batch: 335285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335338

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	47.1		ug/Kg		94	63 - 130
1,1,2,2-Tetrachloroethane	50.0	46.1		ug/Kg		92	60 - 131
1,1,2-Trichloroethane	50.0	45.9		ug/Kg		92	65 - 130
1,1-Dichloroethane	50.0	46.2		ug/Kg		92	59 - 130
1,1-Dichloroethene	50.0	45.0		ug/Kg		90	55 - 137
1,2-Dichlorobenzene	50.0	45.1		ug/Kg		90	64 - 130
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	62 - 130
1,2-Dichloropropane	50.0	46.6		ug/Kg		93	64 - 130
1,3-Dichlorobenzene	50.0	46.5		ug/Kg		93	66 - 130
1,4-Dichlorobenzene	50.0	46.2		ug/Kg		92	65 - 130
2-Hexanone	200	197		ug/Kg		98	57 - 131
Acetone	200	188		ug/Kg		94	48 - 160
Benzene	50.0	46.4		ug/Kg		93	65 - 130
Bromoform	50.0	48.2		ug/Kg		96	52 - 136
Bromomethane	50.0	44.4		ug/Kg		89	12 - 160
Carbon disulfide	50.0	43.9		ug/Kg		88	46 - 141
Carbon tetrachloride	50.0	47.8		ug/Kg		96	60 - 130
Chlorobenzene	50.0	45.4		ug/Kg		91	70 - 130
Chlorodibromomethane	50.0	48.2		ug/Kg		96	58 - 132
Chloroethane	50.0	42.8		ug/Kg		86	55 - 134
Chloroform	50.0	46.2		ug/Kg		92	62 - 130
Chloromethane	50.0	43.1		ug/Kg		86	49 - 136
cis-1,2-Dichloroethene	50.0	45.3		ug/Kg		91	53 - 135
cis-1,3-Dichloropropene	50.0	47.9		ug/Kg		96	61 - 130
Dichlorobromomethane	50.0	47.5		ug/Kg		95	61 - 130
Ethylbenzene	50.0	45.4		ug/Kg		91	70 - 130
m-Xylene & p-Xylene	50.0	44.5		ug/Kg		89	70 - 130
2-Butanone (MEK)	200	212		ug/Kg		106	55 - 130
4-Methyl-2-pentanone (MIBK)	200	201		ug/Kg		101	58 - 130
Methylene Chloride	50.0	52.0		ug/Kg		104	57 - 132
o-Xylene	50.0	44.2		ug/Kg		88	70 - 130
Styrene	50.0	44.2		ug/Kg		88	68 - 130
Tetrachloroethene	50.0	47.0		ug/Kg		94	67 - 130
Toluene	50.0	44.6		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	50.0	47.8		ug/Kg		96	58 - 134
trans-1,3-Dichloropropene	50.0	45.7		ug/Kg		91	60 - 130
Trichloroethene	50.0	50.0		ug/Kg		100	65 - 130
Vinyl chloride	50.0	43.9		ug/Kg		88	52 - 132
Xylenes, Total	100	88.8		ug/Kg		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*97*		*72 - 122*
Dibromofluoromethane	*103*		*79 - 123*
Toluene-d8 (Surr)	*95*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131381-9 MS
Matrix: Solid
Analysis Batch: 335285

Client Sample ID: B-6 0'-7'
Prep Type: Total/NA
Prep Batch: 335338

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<5.0		57.1	49.8		ug/Kg	☼	87	41 - 130
1,1,2,2-Tetrachloroethane	<5.0		57.1	51.3		ug/Kg	☼	90	10 - 149
1,1,2-Trichloroethane	<5.0		57.1	52.0		ug/Kg	☼	91	37 - 130
1,1-Dichloroethane	<5.0		57.1	51.1		ug/Kg	☼	90	41 - 130
1,1-Dichloroethene	<5.0		57.1	52.9		ug/Kg	☼	93	39 - 138
1,2-Dichlorobenzene	<5.0		57.1	47.6		ug/Kg	☼	83	20 - 130
1,2-Dichloroethane	<5.0		57.1	53.5		ug/Kg	☼	94	37 - 130
1,2-Dichloropropane	<5.0		57.1	52.1		ug/Kg	☼	91	39 - 130
1,3-Dichlorobenzene	<5.0		57.1	47.0		ug/Kg	☼	82	22 - 130
1,4-Dichlorobenzene	<5.0		57.1	46.6		ug/Kg	☼	82	21 - 130
2-Hexanone	<25		228	222		ug/Kg	☼	97	20 - 142
Acetone	<25		228	227		ug/Kg	☼	99	10 - 160
Benzene	<5.0		57.1	51.4		ug/Kg	☼	90	38 - 131
Bromoform	<5.0		57.1	49.4		ug/Kg	☼	86	24 - 136
Bromomethane	<5.0		57.1	59.1		ug/Kg	☼	103	10 - 160
Carbon disulfide	<5.0		57.1	47.4		ug/Kg	☼	83	29 - 141
Carbon tetrachloride	<5.0		57.1	48.7		ug/Kg	☼	85	36 - 134
Chlorobenzene	<5.0		57.1	48.7		ug/Kg	☼	85	37 - 130
Chlorodibromomethane	<5.0		57.1	51.2		ug/Kg	☼	90	32 - 132
Chloroethane	<5.0		57.1	56.3		ug/Kg	☼	99	36 - 139
Chloroform	<5.0		57.1	52.0		ug/Kg	☼	91	39 - 130
Chloromethane	<5.0		57.1	59.3		ug/Kg	☼	104	35 - 136
cis-1,2-Dichloroethene	<5.0		57.1	50.4		ug/Kg	☼	88	32 - 135
cis-1,3-Dichloropropene	<5.0		57.1	50.8		ug/Kg	☼	89	34 - 130
Dichlorobromomethane	<5.0		57.1	52.0		ug/Kg	☼	91	37 - 130
Ethylbenzene	<5.0		57.1	49.6		ug/Kg	☼	87	35 - 130
m-Xylene & p-Xylene	<5.0		57.1	48.6		ug/Kg	☼	85	35 - 130
2-Butanone (MEK)	<25		228	220		ug/Kg	☼	96	19 - 139
4-Methyl-2-pentanone (MIBK)	<25		228	224		ug/Kg	☼	98	21 - 144
Methylene Chloride	<15		57.1	54.4		ug/Kg	☼	95	36 - 132
o-Xylene	<5.0		57.1	48.5		ug/Kg	☼	85	35 - 130
Styrene	<5.0		57.1	48.5		ug/Kg	☼	85	31 - 130
Tetrachloroethene	<5.0		57.1	47.6		ug/Kg	☼	83	27 - 147
Toluene	<5.0		57.1	49.4		ug/Kg	☼	87	42 - 130
trans-1,2-Dichloroethene	<5.0		57.1	51.8		ug/Kg	☼	91	40 - 134
trans-1,3-Dichloropropene	<5.0		57.1	52.0		ug/Kg	☼	91	31 - 130
Trichloroethene	<5.0		57.1	50.0		ug/Kg	☼	88	34 - 144
Vinyl chloride	<5.0		57.1	56.5		ug/Kg	☼	99	35 - 136
Xylenes, Total	<10		114	97.1		ug/Kg	☼	85	35 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*72 - 122*
Dibromofluoromethane	*103*		*79 - 123*
Toluene-d8 (Surr)	*101*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131381-9 MSD
Matrix: Solid
Analysis Batch: 335285

Client Sample ID: B-6 0'-7'
Prep Type: Total/NA
Prep Batch: 335338

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	<5.0		56.6	56.2		ug/Kg	☼	99	41 - 130	12	40
1,1,2,2-Tetrachloroethane	<5.0		56.6	49.1		ug/Kg	☼	87	10 - 149	4	44
1,1,2-Trichloroethane	<5.0		56.6	49.7		ug/Kg	☼	88	37 - 130	5	33
1,1-Dichloroethane	<5.0		56.6	55.6		ug/Kg	☼	98	41 - 130	8	35
1,1-Dichloroethene	<5.0		56.6	57.6		ug/Kg	☼	102	39 - 138	8	37
1,2-Dichlorobenzene	<5.0		56.6	46.9		ug/Kg	☼	83	20 - 130	2	40
1,2-Dichloroethane	<5.0		56.6	52.5		ug/Kg	☼	93	37 - 130	2	32
1,2-Dichloropropane	<5.0		56.6	54.2		ug/Kg	☼	96	39 - 130	4	35
1,3-Dichlorobenzene	<5.0		56.6	47.6		ug/Kg	☼	84	22 - 130	1	41
1,4-Dichlorobenzene	<5.0		56.6	46.8		ug/Kg	☼	83	21 - 130	0	40
2-Hexanone	<25		227	201		ug/Kg	☼	89	20 - 142	10	37
Acetone	<25		227	208		ug/Kg	☼	92	10 - 160	9	38
Benzene	<5.0		56.6	55.2		ug/Kg	☼	98	38 - 131	7	36
Bromoform	<5.0		56.6	49.0		ug/Kg	☼	86	24 - 136	1	34
Bromomethane	<5.0		56.6	67.2		ug/Kg	☼	119	10 - 160	13	47
Carbon disulfide	<5.0		56.6	54.2		ug/Kg	☼	96	29 - 141	13	39
Carbon tetrachloride	<5.0		56.6	56.4		ug/Kg	☼	100	36 - 134	15	44
Chlorobenzene	<5.0		56.6	49.3		ug/Kg	☼	87	37 - 130	1	37
Chlorodibromomethane	<5.0		56.6	50.2		ug/Kg	☼	89	32 - 132	2	34
Chloroethane	<5.0		56.6	57.9		ug/Kg	☼	102	36 - 139	3	42
Chloroform	<5.0		56.6	54.4		ug/Kg	☼	96	39 - 130	4	35
Chloromethane	<5.0		56.6	58.1		ug/Kg	☼	103	35 - 136	2	41
cis-1,2-Dichloroethene	<5.0		56.6	53.6		ug/Kg	☼	95	32 - 135	6	35
cis-1,3-Dichloropropene	<5.0		56.6	52.7		ug/Kg	☼	93	34 - 130	4	35
Dichlorobromomethane	<5.0		56.6	53.7		ug/Kg	☼	95	37 - 130	3	34
Ethylbenzene	<5.0		56.6	50.7		ug/Kg	☼	89	35 - 130	2	46
m-Xylene & p-Xylene	<5.0		56.6	49.8		ug/Kg	☼	88	35 - 130	2	42
2-Butanone (MEK)	<25		227	213		ug/Kg	☼	94	19 - 139	3	41
4-Methyl-2-pentanone (MIBK)	<25		227	211		ug/Kg	☼	93	21 - 144	6	39
Methylene Chloride	<15		56.6	57.6		ug/Kg	☼	102	36 - 132	6	38
o-Xylene	<5.0		56.6	48.9		ug/Kg	☼	86	35 - 130	1	37
Styrene	<5.0		56.6	47.6		ug/Kg	☼	84	31 - 130	2	39
Tetrachloroethene	<5.0		56.6	51.6		ug/Kg	☼	91	27 - 147	8	44
Toluene	<5.0		56.6	51.1		ug/Kg	☼	90	42 - 130	3	37
trans-1,2-Dichloroethene	<5.0		56.6	57.0		ug/Kg	☼	101	40 - 134	10	38
trans-1,3-Dichloropropene	<5.0		56.6	49.0		ug/Kg	☼	86	31 - 130	6	34
Trichloroethene	<5.0		56.6	56.4		ug/Kg	☼	99	34 - 144	12	42
Vinyl chloride	<5.0		56.6	58.5		ug/Kg	☼	103	35 - 136	3	43
Xylenes, Total	<10		113	98.8		ug/Kg	☼	87	35 - 130	2	39

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene	*99*		*72 - 122*
Dibromofluoromethane	*103*		*79 - 123*
Toluene-d8 (Surr)	*98*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-335109/15-A
Matrix: Solid
Analysis Batch: 335301

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335109

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Caprolactam	<330		330		ug/Kg		12/15/16 07:59	12/16/16 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*10 - 150*	*12/15/16 07:59*	*12/16/16 11:22*	*1*
2-Fluorobiphenyl	*67*		*27 - 127*	*12/15/16 07:59*	*12/16/16 11:22*	*1*
2-Fluorophenol (Surr)	*65*		*25 - 128*	*12/15/16 07:59*	*12/16/16 11:22*	*1*
Nitrobenzene-d5 (Surr)	*60*		*15 - 136*	*12/15/16 07:59*	*12/16/16 11:22*	*1*
Phenol-d5 (Surr)	*65*		*29 - 130*	*12/15/16 07:59*	*12/16/16 11:22*	*1*
Terphenyl-d14 (Surr)	*79*		*24 - 146*	*12/15/16 07:59*	*12/16/16 11:22*	*1*

Lab Sample ID: LCS 400-335109/14-A
Matrix: Solid
Analysis Batch: 335301

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335109

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*97*		*10 - 150*
2-Fluorobiphenyl	*73*		*27 - 127*
2-Fluorophenol (Surr)	*69*		*25 - 128*
Nitrobenzene-d5 (Surr)	*66*		*15 - 136*
Phenol-d5 (Surr)	*70*		*29 - 130*
Terphenyl-d14 (Surr)	*85*		*24 - 146*

Lab Sample ID: 400-131381-11 MS
Matrix: Solid
Analysis Batch: 335301

Client Sample ID: SB-4 0'-12'
Prep Type: Total/NA
Prep Batch: 335109

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*10 - 150*
2-Fluorobiphenyl	*77*		*27 - 127*
2-Fluorophenol (Surr)	*73*		*25 - 128*
Nitrobenzene-d5 (Surr)	*67*		*15 - 136*
Phenol-d5 (Surr)	*74*		*29 - 130*
Terphenyl-d14 (Surr)	*91*		*24 - 146*

Lab Sample ID: 400-131381-11 MSD
Matrix: Solid
Analysis Batch: 335301

Client Sample ID: SB-4 0'-12'
Prep Type: Total/NA
Prep Batch: 335109

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*104*		*10 - 150*
2-Fluorobiphenyl	*79*		*27 - 127*
2-Fluorophenol (Surr)	*73*		*25 - 128*
Nitrobenzene-d5 (Surr)	*68*		*15 - 136*
Phenol-d5 (Surr)	*75*		*29 - 130*
Terphenyl-d14 (Surr)	*91*		*24 - 146*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-335798/15-A
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2-Chlorophenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2,4-Dichlorophenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2,4-Dimethylphenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2,4-Dinitrophenol	<990		990		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2-Methylphenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
3 & 4 Methylphenol	<660		660		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2-Nitrophenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
4-Nitrophenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Pentachlorophenol	<660		660		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Phenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Acenaphthene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Acenaphthylene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Acetophenone	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Anthracene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Benzaldehyde	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Benzo[a]anthracene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Benzo[a]pyrene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Benzo[b]fluoranthene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Benzo[k]fluoranthene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Butyl benzyl phthalate	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Carbazole	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
4-Chloroaniline	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2-Chloronaphthalene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Chrysene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Dibenzofuran	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Di-n-butyl phthalate	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Di-n-octyl phthalate	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Diethyl phthalate	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Dimethyl phthalate	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2,4-Dinitrotoluene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2,6-Dinitrotoluene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
1,1'-Biphenyl	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Fluoranthene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Fluorene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Hexachlorobenzene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Hexachlorobutadiene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-335798/15-A
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335798

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorocyclopentadiene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Hexachloroethane	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Isophorone	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Naphthalene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2-Methylnaphthalene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
3-Nitroaniline	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
4-Nitroaniline	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Nitrobenzene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Phenanthrene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Pyrene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
bis (2-chloroisopropyl) ether	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
2-Nitroaniline	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		12/20/16 14:50	12/22/16 17:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*89*		*10 - 150*	*12/20/16 14:50*	*12/22/16 17:20*	*1*
2-Fluorobiphenyl	*81*		*27 - 127*	*12/20/16 14:50*	*12/22/16 17:20*	*1*
2-Fluorophenol (Surr)	*83*		*25 - 128*	*12/20/16 14:50*	*12/22/16 17:20*	*1*
Nitrobenzene-d5 (Surr)	*79*		*15 - 136*	*12/20/16 14:50*	*12/22/16 17:20*	*1*
Phenol-d5 (Surr)	*81*		*29 - 130*	*12/20/16 14:50*	*12/22/16 17:20*	*1*
Terphenyl-d14 (Surr)	*87*		*24 - 146*	*12/20/16 14:50*	*12/22/16 17:20*	*1*

Lab Sample ID: LCS 400-335798/14-A
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloro-3-methylphenol	1990	1550		ug/Kg		78	30 - 150
2-Chlorophenol	1990	1330		ug/Kg		67	57 - 130
2,4-Dichlorophenol	1990	1480		ug/Kg		74	56 - 130
2,4-Dimethylphenol	1990	1400		ug/Kg		70	43 - 130
4,6-Dinitro-2-methylphenol	3980	3260		ug/Kg		82	10 - 142
2,4-Dinitrophenol	6640	6320		ug/Kg		95	10 - 130
2-Methylphenol	1990	1340		ug/Kg		67	34 - 130
3 & 4 Methylphenol	1990	1360		ug/Kg		68	10 - 150
2-Nitrophenol	1990	1560		ug/Kg		79	54 - 130
4-Nitrophenol	3980	3520		ug/Kg		88	10 - 150
Pentachlorophenol	3980	3450		ug/Kg		87	10 - 150
Phenol	1990	1290		ug/Kg		65	43 - 130
2,4,5-Trichlorophenol	1990	1670		ug/Kg		84	51 - 130
2,4,6-Trichlorophenol	1990	1560		ug/Kg		78	57 - 130
Acenaphthene	1990	1340		ug/Kg		67	50 - 130
Acenaphthylene	1990	1530		ug/Kg		77	50 - 130
Anthracene	1990	1620		ug/Kg		82	50 - 130
Benzo[a]anthracene	1990	1560		ug/Kg		79	50 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335798/14-A
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335798

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzo[a]pyrene	1990	1520		ug/Kg		77	50 - 130
Benzo[b]fluoranthene	1990	1490		ug/Kg		75	50 - 130
Benzo[k]fluoranthene	1990	1470		ug/Kg		74	50 - 130
4-Bromophenyl phenyl ether	1990	1370		ug/Kg		69	45 - 134
Butyl benzyl phthalate	1990	1580		ug/Kg		79	57 - 139
Carbazole	1990	1680		ug/Kg		84	43 - 150
4-Chloroaniline	1990	1120		ug/Kg		56	29 - 130
Bis(2-chloroethoxy)methane	1990	1280		ug/Kg		64	47 - 130
Bis(2-chloroethyl)ether	1990	1250		ug/Kg		63	37 - 130
2-Chloronaphthalene	1990	1380		ug/Kg		69	60 - 130
4-Chlorophenyl phenyl ether	1990	1530		ug/Kg		77	58 - 130
Chrysene	1990	1600		ug/Kg		81	50 - 130
Dibenz(a,h)anthracene	1990	1440		ug/Kg		73	43 - 133
Dibenzofuran	1990	1540		ug/Kg		77	37 - 137
Di-n-butyl phthalate	1990	1640		ug/Kg		82	62 - 131
Di-n-octyl phthalate	1990	1850		ug/Kg		93	57 - 140
Diethyl phthalate	1990	1600		ug/Kg		80	63 - 130
Dimethyl phthalate	1990	1530		ug/Kg		77	65 - 130
2,4-Dinitrotoluene	1990	1820		ug/Kg		91	56 - 130
2,6-Dinitrotoluene	1990	1580		ug/Kg		80	65 - 130
Bis(2-ethylhexyl) phthalate	1990	1670		ug/Kg		84	62 - 140
Fluoranthene	1990	1820		ug/Kg		91	50 - 130
Fluorene	1990	1640		ug/Kg		82	50 - 130
Hexachlorobenzene	1990	1510		ug/Kg		76	44 - 136
Hexachlorobutadiene	1990	1380		ug/Kg		69	44 - 130
Hexachlorocyclopentadiene	1990	2110		ug/Kg		106	1 - 150
Hexachloroethane	1990	1290		ug/Kg		65	44 - 130
Indeno[1,2,3-cd]pyrene	1990	1450		ug/Kg		73	43 - 131
Isophorone	1990	1320		ug/Kg		66	48 - 130
Naphthalene	1990	1360		ug/Kg		68	45 - 130
2-Methylnaphthalene	1990	1480		ug/Kg		74	50 - 130
3-Nitroaniline	1990	1360		ug/Kg		68	10 - 150
4-Nitroaniline	1990	1640		ug/Kg		83	10 - 150
Nitrobenzene	1990	1280		ug/Kg		64	49 - 130
N-Nitrosodiphenylamine	1970	1310		ug/Kg		66	49 - 148
N-Nitrosodi-n-propylamine	1990	1270		ug/Kg		64	44 - 130
Phenanthrene	1990	1550		ug/Kg		78	5 - 130
Pyrene	1990	1530		ug/Kg		77	47 - 135
bis (2-chloroisopropyl) ether	1990	1140		ug/Kg		57	14 - 149
2-Nitroaniline	1990	1470		ug/Kg		74	46 - 133
Benzo[g,h,i]perylene	1990	1460		ug/Kg		74	50 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*10 - 150*
2-Fluorobiphenyl	*63*		*27 - 127*
2-Fluorophenol (Surr)	*63*		*25 - 128*
Nitrobenzene-d5 (Surr)	*61*		*15 - 136*
Phenol-d5 (Surr)	*61*		*29 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335798/14-A
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335798

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*72*		*24 - 146*

Lab Sample ID: 400-131381-11 MS
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: SB-4 0'-12'
Prep Type: Total/NA
Prep Batch: 335798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chloro-3-methylphenol	<350		2150	1710		ug/Kg	☼	79	40 - 140
2-Chlorophenol	<350		2150	1450		ug/Kg	☼	67	40 - 140
2,4-Dichlorophenol	<350		2150	1660		ug/Kg	☼	77	40 - 140
2,4-Dimethylphenol	<350		2150	1550		ug/Kg	☼	72	40 - 140
4,6-Dinitro-2-methylphenol	<350		4300	3630		ug/Kg	☼	85	40 - 140
2,4-Dinitrophenol	<1100		7170	7620		ug/Kg	☼	106	40 - 140
2-Methylphenol	<350		2150	1470		ug/Kg	☼	68	40 - 140
3 & 4 Methylphenol	<700		2150	1500		ug/Kg	☼	70	40 - 140
2-Nitrophenol	<350		2150	1720		ug/Kg	☼	80	40 - 140
4-Nitrophenol	<350		4300	3730		ug/Kg	☼	87	40 - 140
Pentachlorophenol	<700		4300	3960		ug/Kg	☼	92	40 - 140
Phenol	<350		2150	1420		ug/Kg	☼	66	40 - 140
2,4,5-Trichlorophenol	<350		2150	1810		ug/Kg	☼	84	40 - 140
2,4,6-Trichlorophenol	<350		2150	1760		ug/Kg	☼	82	40 - 140
Acenaphthene	<350		2150	1510		ug/Kg	☼	70	40 - 140
Acenaphthylene	<350		2150	1670		ug/Kg	☼	78	40 - 140
Anthracene	<350		2150	1710		ug/Kg	☼	79	40 - 140
Benzo[a]anthracene	<350		2150	1590		ug/Kg	☼	74	40 - 140
Benzo[a]pyrene	<350		2150	1540		ug/Kg	☼	72	40 - 140
Benzo[b]fluoranthene	<350		2150	1590		ug/Kg	☼	74	40 - 140
Benzo[k]fluoranthene	<350		2150	1500		ug/Kg	☼	70	40 - 140
4-Bromophenyl phenyl ether	<350		2150	1470		ug/Kg	☼	68	40 - 140
Butyl benzyl phthalate	<350		2150	1650		ug/Kg	☼	77	40 - 140
Carbazole	<350		2150	1800		ug/Kg	☼	77	40 - 140
4-Chloroaniline	<350	F1	2150	618	F1	ug/Kg	☼	29	40 - 140
Bis(2-chloroethoxy)methane	<350		2150	1420		ug/Kg	☼	66	40 - 140
Bis(2-chloroethyl)ether	<350		2150	1370		ug/Kg	☼	64	40 - 140
2-Chloronaphthalene	<350		2150	1540		ug/Kg	☼	72	40 - 140
4-Chlorophenyl phenyl ether	<350		2150	1690		ug/Kg	☼	79	40 - 140
Chrysene	<350		2150	1630		ug/Kg	☼	76	40 - 140
Dibenz(a,h)anthracene	<350		2150	1430		ug/Kg	☼	66	40 - 140
Dibenzofuran	<350		2150	1710		ug/Kg	☼	80	40 - 140
Di-n-butyl phthalate	<350		2150	1700		ug/Kg	☼	79	40 - 140
Di-n-octyl phthalate	<350		2150	1870		ug/Kg	☼	87	40 - 140
Diethyl phthalate	<350		2150	1680		ug/Kg	☼	78	40 - 140
Dimethyl phthalate	<350		2150	1650		ug/Kg	☼	77	40 - 140
2,4-Dinitrotoluene	<350		2150	1910		ug/Kg	☼	89	40 - 140
2,6-Dinitrotoluene	<350		2150	1650		ug/Kg	☼	77	40 - 140
Bis(2-ethylhexyl) phthalate	<350		2150	1740		ug/Kg	☼	81	40 - 140
Fluoranthene	<350		2150	1940		ug/Kg	☼	90	40 - 140
Fluorene	<350		2150	1870		ug/Kg	☼	87	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131381-11 MS
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: SB-4 0'-12'
Prep Type: Total/NA
Prep Batch: 335798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexachlorobenzene	<350		2150	1650		ug/Kg	☼	77	40 - 140
Hexachlorobutadiene	<350		2150	1470		ug/Kg	☼	68	40 - 140
Hexachlorocyclopentadiene	<350	F1 F2	2150	818	F1	ug/Kg	☼	38	40 - 140
Hexachloroethane	<350		2150	1100		ug/Kg	☼	51	40 - 140
Indeno[1,2,3-cd]pyrene	<350		2150	1410		ug/Kg	☼	66	40 - 140
Isophorone	<350		2150	1470		ug/Kg	☼	68	40 - 140
Naphthalene	<350		2150	1490		ug/Kg	☼	69	40 - 140
2-Methylnaphthalene	<350		2150	1670		ug/Kg	☼	78	40 - 140
3-Nitroaniline	<350		2150	1020		ug/Kg	☼	47	40 - 140
4-Nitroaniline	<350		2150	1580		ug/Kg	☼	73	40 - 140
Nitrobenzene	<350		2150	1390		ug/Kg	☼	65	40 - 140
N-Nitrosodiphenylamine	<350		2130	1300		ug/Kg	☼	61	40 - 140
N-Nitrosodi-n-propylamine	<350		2150	1390		ug/Kg	☼	65	40 - 140
Phenanthrene	<350		2150	1670		ug/Kg	☼	78	40 - 140
Pyrene	<350		2150	1630		ug/Kg	☼	76	40 - 140
bis (2-chloroisopropyl) ether	<350		2150	1260		ug/Kg	☼	59	40 - 140
2-Nitroaniline	<350		2150	1590		ug/Kg	☼	74	40 - 140
Benzo[g,h,i]perylene	<350		2150	1380		ug/Kg	☼	64	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*98*		*10 - 150*
2-Fluorobiphenyl	*73*		*27 - 127*
2-Fluorophenol (Surr)	*72*		*25 - 128*
Nitrobenzene-d5 (Surr)	*70*		*15 - 136*
Phenol-d5 (Surr)	*71*		*29 - 130*
Terphenyl-d14 (Surr)	*78*		*24 - 146*

Lab Sample ID: 400-131381-11 MSD
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: SB-4 0'-12'
Prep Type: Total/NA
Prep Batch: 335798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chloro-3-methylphenol	<350		2130	1830		ug/Kg	☼	86	40 - 140	7	30
2-Chlorophenol	<350		2130	1490		ug/Kg	☼	70	40 - 140	3	30
2,4-Dichlorophenol	<350		2130	1730		ug/Kg	☼	81	40 - 140	4	30
2,4-Dimethylphenol	<350		2130	1620		ug/Kg	☼	76	40 - 140	4	30
4,6-Dinitro-2-methylphenol	<350		4260	3870		ug/Kg	☼	91	40 - 140	6	30
2,4-Dinitrophenol	<1100		7100	8220		ug/Kg	☼	116	40 - 140	8	30
2-Methylphenol	<350		2130	1520		ug/Kg	☼	71	40 - 140	3	30
3 & 4 Methylphenol	<700		2130	1560		ug/Kg	☼	73	40 - 140	4	30
2-Nitrophenol	<350		2130	1760		ug/Kg	☼	83	40 - 140	2	30
4-Nitrophenol	<350		4260	4000		ug/Kg	☼	94	40 - 140	7	30
Pentachlorophenol	<700		4260	4300		ug/Kg	☼	101	40 - 140	8	30
Phenol	<350		2130	1480		ug/Kg	☼	70	40 - 140	5	30
2,4,5-Trichlorophenol	<350		2130	1930		ug/Kg	☼	91	40 - 140	6	30
2,4,6-Trichlorophenol	<350		2130	1850		ug/Kg	☼	87	40 - 140	5	30
Acenaphthene	<350		2130	1590		ug/Kg	☼	75	40 - 140	5	30
Acenaphthylene	<350		2130	1760		ug/Kg	☼	83	40 - 140	5	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131381-11 MSD
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: SB-4 0'-12'
Prep Type: Total/NA
Prep Batch: 335798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene	<350		2130	1860		ug/Kg	☼	88	40 - 140	9	30
Benzo[a]anthracene	<350		2130	1780		ug/Kg	☼	83	40 - 140	11	30
Benzo[a]pyrene	<350		2130	1720		ug/Kg	☼	81	40 - 140	11	30
Benzo[b]fluoranthene	<350		2130	1790		ug/Kg	☼	84	40 - 140	12	30
Benzo[k]fluoranthene	<350		2130	1720		ug/Kg	☼	81	40 - 140	14	30
4-Bromophenyl phenyl ether	<350		2130	1540		ug/Kg	☼	72	40 - 140	4	30
Butyl benzyl phthalate	<350		2130	1790		ug/Kg	☼	84	40 - 140	8	30
Carbazole	<350		2130	1970		ug/Kg	☼	85	40 - 140	9	30
4-Chloroaniline	<350	F1	2130	801	F1	ug/Kg	☼	38	40 - 140	26	30
Bis(2-chloroethoxy)methane	<350		2130	1460		ug/Kg	☼	69	40 - 140	2	30
Bis(2-chloroethyl)ether	<350		2130	1340		ug/Kg	☼	63	40 - 140	2	30
2-Chloronaphthalene	<350		2130	1580		ug/Kg	☼	74	40 - 140	2	30
4-Chlorophenyl phenyl ether	<350		2130	1770		ug/Kg	☼	83	40 - 140	5	30
Chrysene	<350		2130	1810		ug/Kg	☼	85	40 - 140	10	30
Dibenz(a,h)anthracene	<350		2130	1500		ug/Kg	☼	70	40 - 140	5	30
Dibenzofuran	<350		2130	1820		ug/Kg	☼	85	40 - 140	6	30
Di-n-butyl phthalate	<350		2130	1880		ug/Kg	☼	88	40 - 140	10	30
Di-n-octyl phthalate	<350		2130	2060		ug/Kg	☼	97	40 - 140	10	30
Diethyl phthalate	<350		2130	1810		ug/Kg	☼	85	40 - 140	8	30
Dimethyl phthalate	<350		2130	1750		ug/Kg	☼	82	40 - 140	6	30
2,4-Dinitrotoluene	<350		2130	2050		ug/Kg	☼	96	40 - 140	7	30
2,6-Dinitrotoluene	<350		2130	1760		ug/Kg	☼	83	40 - 140	6	30
Bis(2-ethylhexyl) phthalate	<350		2130	1890		ug/Kg	☼	89	40 - 140	8	30
Fluoranthene	<350		2130	2170		ug/Kg	☼	102	40 - 140	11	30
Fluorene	<350		2130	1980		ug/Kg	☼	93	40 - 140	5	30
Hexachlorobenzene	<350		2130	1750		ug/Kg	☼	82	40 - 140	6	30
Hexachlorobutadiene	<350		2130	1480		ug/Kg	☼	69	40 - 140	0	30
Hexachlorocyclopentadiene	<350	F1 F2	2130	600	F1 F2	ug/Kg	☼	28	40 - 140	31	30
Hexachloroethane	<350		2130	1000		ug/Kg	☼	47	40 - 140	10	30
Indeno[1,2,3-cd]pyrene	<350		2130	1480		ug/Kg	☼	70	40 - 140	5	30
Isophorone	<350		2130	1510		ug/Kg	☼	71	40 - 140	2	30
Naphthalene	<350		2130	1510		ug/Kg	☼	71	40 - 140	2	30
2-Methylnaphthalene	<350		2130	1730		ug/Kg	☼	81	40 - 140	3	30
3-Nitroaniline	<350		2130	1150		ug/Kg	☼	54	40 - 140	12	30
4-Nitroaniline	<350		2130	1670		ug/Kg	☼	78	40 - 140	6	30
Nitrobenzene	<350		2130	1400		ug/Kg	☼	66	40 - 140	1	30
N-Nitrosodiphenylamine	<350		2110	1350		ug/Kg	☼	64	40 - 140	3	30
N-Nitrosodi-n-propylamine	<350		2130	1430		ug/Kg	☼	67	40 - 140	2	30
Phenanthrene	<350		2130	1790		ug/Kg	☼	84	40 - 140	7	30
Pyrene	<350		2130	1710		ug/Kg	☼	80	40 - 140	5	30
bis (2-chloroisopropyl) ether	<350		2130	1280		ug/Kg	☼	60	40 - 140	1	30
2-Nitroaniline	<350		2130	1670		ug/Kg	☼	78	40 - 140	5	30
Benzo[g,h,i]perylene	<350		2130	1420		ug/Kg	☼	67	40 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*89*		*10 - 150*
2-Fluorobiphenyl	*64*		*27 - 127*
2-Fluorophenol (Surr)	*63*		*25 - 128*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131381-11 MSD
Matrix: Solid
Analysis Batch: 336079

Client Sample ID: SB-4 0'-12'
Prep Type: Total/NA
Prep Batch: 335798

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	60		15 - 136
Phenol-d5 (Surr)	63		29 - 130
Terphenyl-d14 (Surr)	73		24 - 146

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-335096/1-A
Matrix: Solid
Analysis Batch: 336077

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335096

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<17		17		ug/Kg		12/14/16 19:48	12/22/16 08:52	1
PCB-1221	<17		17		ug/Kg		12/14/16 19:48	12/22/16 08:52	1
PCB-1232	<17		17		ug/Kg		12/14/16 19:48	12/22/16 08:52	1
PCB-1242	<17		17		ug/Kg		12/14/16 19:48	12/22/16 08:52	1
PCB-1248	<17		17		ug/Kg		12/14/16 19:48	12/22/16 08:52	1
PCB-1254	<17		17		ug/Kg		12/14/16 19:48	12/22/16 08:52	1
PCB-1260	<17		17		ug/Kg		12/14/16 19:48	12/22/16 08:52	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		26 - 129	12/14/16 19:48	12/22/16 08:52	1
Tetrachloro-m-xylene	58		31 - 122	12/14/16 19:48	12/22/16 08:52	1

Lab Sample ID: LCS 400-335096/2-A
Matrix: Solid
Analysis Batch: 336077

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335096

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	333	359		ug/Kg		108	17 - 156
PCB-1260	333	383		ug/Kg		115	27 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	65		26 - 129
Tetrachloro-m-xylene	47		31 - 122

Lab Sample ID: 400-131381-C-1-A MS
Matrix: Solid
Analysis Batch: 336077

Client Sample ID: 400-131381-C-1-A MS
Prep Type: Total/NA
Prep Batch: 335096

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<21		419	364		ug/Kg	☼	87	60 - 140
PCB-1260	<21		419	347		ug/Kg	☼	83	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	65		26 - 129
Tetrachloro-m-xylene	44		31 - 122

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 400-131381-C-1-B MSD
Matrix: Solid
Analysis Batch: 336077

Client Sample ID: 400-131381-C-1-B MSD
Prep Type: Total/NA
Prep Batch: 335096

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<21		420	405		ug/Kg	☼	97	60 - 140	11	30
PCB-1260	<21		420	389		ug/Kg	☼	93	60 - 140	11	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*26 - 129*
Tetrachloro-m-xylene	*54*		*31 - 122*

Lab Sample ID: MB 400-336238/7-A
Matrix: Solid
Analysis Batch: 336638

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336238

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<17		17		ug/Kg		12/23/16 07:24	12/28/16 10:47	1
PCB-1221	<17		17		ug/Kg		12/23/16 07:24	12/28/16 10:47	1
PCB-1232	<17		17		ug/Kg		12/23/16 07:24	12/28/16 10:47	1
PCB-1242	<17		17		ug/Kg		12/23/16 07:24	12/28/16 10:47	1
PCB-1248	<17		17		ug/Kg		12/23/16 07:24	12/28/16 10:47	1
PCB-1254	<17		17		ug/Kg		12/23/16 07:24	12/28/16 10:47	1
PCB-1260	<17		17		ug/Kg		12/23/16 07:24	12/28/16 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*26 - 129*	*12/23/16 07:24*	*12/28/16 10:47*	*1*
Tetrachloro-m-xylene	*74*		*31 - 122*	*12/23/16 07:24*	*12/28/16 10:47*	*1*

Lab Sample ID: LCS 400-336238/6-A
Matrix: Solid
Analysis Batch: 336638

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336238

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			329	197		ug/Kg		60	17 - 156		
PCB-1260			329	273		ug/Kg		83	27 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*90*		*26 - 129*
Tetrachloro-m-xylene	*64*		*31 - 122*

Lab Sample ID: 400-131381-1 MS
Matrix: Solid
Analysis Batch: 336638

Client Sample ID: B-5 0'-12'
Prep Type: Total/NA
Prep Batch: 336238

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	<21	F1	419	206	F1	ug/Kg	☼	49	60 - 140		
PCB-1260	<21	F1	419	271		ug/Kg	☼	65	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*73*		*26 - 129*
Tetrachloro-m-xylene	*47*		*31 - 122*

Lab Sample ID: 400-131381-1 MSD
Matrix: Solid
Analysis Batch: 336638

Client Sample ID: B-5 0'-12'
Prep Type: Total/NA
Prep Batch: 336238

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<21	F1	418	159	F1	ug/Kg	☼	38	60 - 140	26	30
PCB-1260	<21	F1	418	217	F1	ug/Kg	☼	52	60 - 140	22	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*57*		*26 - 129*
Tetrachloro-m-xylene	*38*		*31 - 122*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-335767/1-A
Matrix: Solid
Analysis Batch: 336250

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335767

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.0		5.0		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Arsenic	<0.50		0.50		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Beryllium	<0.30		0.30		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Cadmium	<0.50		0.50		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Chromium	<0.99		0.99		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Copper	<0.99		0.99		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Lead	<0.50		0.50		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Nickel	<0.50		0.50		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Selenium	<0.99		0.99		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Silver	<0.50		0.50		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Zinc	<2.0		2.0		mg/Kg		12/20/16 13:55	12/22/16 18:19	1
Thallium	<0.99		0.99		mg/Kg		12/20/16 13:55	12/22/16 18:19	1

Lab Sample ID: LCS 400-335767/2-A
Matrix: Solid
Analysis Batch: 336250

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335767

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	98.6	99.8		mg/Kg		101	80 - 120
Arsenic	98.6	101		mg/Kg		103	80 - 120
Beryllium	49.3	53.7		mg/Kg		109	80 - 120
Cadmium	49.3	50.1		mg/Kg		102	80 - 120
Chromium	98.6	104		mg/Kg		106	80 - 120
Copper	98.6	104		mg/Kg		106	80 - 120
Lead	98.6	99.0		mg/Kg		100	80 - 120
Nickel	98.6	100		mg/Kg		101	80 - 120
Selenium	98.6	98.9		mg/Kg		100	80 - 120
Silver	49.3	48.6		mg/Kg		99	80 - 120
Zinc	98.6	103		mg/Kg		105	80 - 120
Thallium	98.6	99.1		mg/Kg		101	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 400-131381-1 MS
Matrix: Solid
Analysis Batch: 336250

Client Sample ID: B-5 0'-12'
Prep Type: Total/NA
Prep Batch: 335767

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<6.0	F1	119	62.0	F1	mg/Kg	☼	52	75 - 125
Arsenic	1.9		119	114		mg/Kg	☼	94	75 - 125
Beryllium	<0.36		59.6	62.4		mg/Kg	☼	104	75 - 125
Cadmium	<0.60		59.6	57.5		mg/Kg	☼	97	75 - 125
Chromium	12		119	140		mg/Kg	☼	107	75 - 125
Copper	5.3		119	126		mg/Kg	☼	102	75 - 125
Lead	6.2		119	126		mg/Kg	☼	101	75 - 125
Nickel	3.6		119	128		mg/Kg	☼	104	75 - 125
Selenium	<1.2		119	113		mg/Kg	☼	94	75 - 125
Silver	<0.60		59.6	57.5		mg/Kg	☼	97	75 - 125
Zinc	9.7		119	131		mg/Kg	☼	102	75 - 125
Thallium	<1.2		119	116		mg/Kg	☼	97	75 - 125

Lab Sample ID: 400-131381-1 MSD
Matrix: Solid
Analysis Batch: 336250

Client Sample ID: B-5 0'-12'
Prep Type: Total/NA
Prep Batch: 335767

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<6.0	F1	119	57.4	F1	mg/Kg	☼	48	75 - 125	8	20
Arsenic	1.9		119	112		mg/Kg	☼	93	75 - 125	2	20
Beryllium	<0.36		59.3	61.8		mg/Kg	☼	104	75 - 125	1	20
Cadmium	<0.60		59.3	57.3		mg/Kg	☼	97	75 - 125	0	20
Chromium	12		119	143		mg/Kg	☼	110	75 - 125	2	20
Copper	5.3		119	125		mg/Kg	☼	101	75 - 125	1	20
Lead	6.2		119	127		mg/Kg	☼	102	75 - 125	0	20
Nickel	3.6		119	128		mg/Kg	☼	105	75 - 125	0	20
Selenium	<1.2		119	112		mg/Kg	☼	94	75 - 125	1	20
Silver	<0.60		59.3	57.5		mg/Kg	☼	97	75 - 125	0	20
Zinc	9.7		119	131		mg/Kg	☼	102	75 - 125	0	20
Thallium	<1.2		119	116		mg/Kg	☼	98	75 - 125	0	20

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 400-335612/14-A
Matrix: Solid
Analysis Batch: 337008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335612

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		12/29/16 14:02	12/30/16 09:33	1

Lab Sample ID: LCS 400-335612/15-A
Matrix: Solid
Analysis Batch: 337008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335612

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0644	0.0560		mg/Kg		87	80 - 120

Method: 7471B - Mercury (CVAA) (Continued)

Lab Sample ID: 400-131381-1 MS
Matrix: Solid
Analysis Batch: 337008

Client Sample ID: B-5 0'-12'
Prep Type: Total/NA
Prep Batch: 335612

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.023		0.177	0.178		mg/Kg	☼	88	80 - 120

Lab Sample ID: 400-131381-1 MSD
Matrix: Solid
Analysis Batch: 337008

Client Sample ID: B-5 0'-12'
Prep Type: Total/NA
Prep Batch: 335612

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.023		0.201	0.195		mg/Kg	☼	86	80 - 120	9	20

Client Sample ID: B-5 0'-12'

Lab Sample ID: 400-131381-1

Date Collected: 12/12/16 09:35

Matrix: Solid

Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 17:16	RRC	TAL PEN

Client Sample ID: B-5 0'-12'

Lab Sample ID: 400-131381-1

Date Collected: 12/12/16 09:35

Matrix: Solid

Date Received: 12/12/16 16:25

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.08 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 09:17	CS	TAL PEN
Total/NA	Prep	3546			15.00 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 18:21	KJA	TAL PEN
Total/NA	Prep	3546			15.19 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 14:10	MAM	TAL PEN
Total/NA	Prep	3546			15.33 g	5.0 mL	336238	12/23/16 07:24	RDT	TAL PEN
Total/NA	Analysis	8082A		1			336638	12/28/16 13:25	AM	TAL PEN
Total/NA	Prep	3050B			0.5298 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 18:25	RJB	TAL PEN
Total/NA	Prep	7471B			0.5082 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 09:35	JAP	TAL PEN

Client Sample ID: B-4 0'-16'

Lab Sample ID: 400-131381-2

Date Collected: 12/12/16 10:09

Matrix: Solid

Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:53	RRC	TAL PEN

Client Sample ID: B-4 0'-16'

Lab Sample ID: 400-131381-2

Date Collected: 12/12/16 10:09

Matrix: Solid

Date Received: 12/12/16 16:25

Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.80 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 10:58	CS	TAL PEN
Total/NA	Prep	3546			15.31 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 18:51	KJA	TAL PEN
Total/NA	Prep	3546			15.13 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 14:43	MAM	TAL PEN
Total/NA	Prep	3546			15.03 g	5.0 mL	336238	12/23/16 07:24	RDT	TAL PEN
Total/NA	Analysis	8082A		1			336638	12/28/16 12:59	AM	TAL PEN
Total/NA	Prep	3050B			0.5389 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 18:41	RJB	TAL PEN
Total/NA	Prep	7471B			0.5127 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN

Client Sample ID: B-4 0'-16'

Lab Sample ID: 400-131381-2
Date Collected: 12/12/16 10:09
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1			337008	12/30/16 09:41	JAP	TAL PEN

Client Sample ID: B-1 0'-13'

Lab Sample ID: 400-131381-3
Date Collected: 12/12/16 10:48
Matrix: Solid
Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 17:16	RRC	TAL PEN

Client Sample ID: B-1 0'-13'

Lab Sample ID: 400-131381-3
Date Collected: 12/12/16 10:48
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 78.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 11:23	CS	TAL PEN
Total/NA	Prep	3546			15.14 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 19:21	KJA	TAL PEN
Total/NA	Prep	3546			15.30 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 15:33	MAM	TAL PEN
Total/NA	Prep	3546			15.17 g	5.0 mL	336238	12/23/16 07:24	RDT	TAL PEN
Total/NA	Analysis	8082A		1			336638	12/28/16 12:33	AM	TAL PEN
Total/NA	Prep	3050B			0.5552 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 18:44	RJB	TAL PEN
Total/NA	Prep	7471B			0.5167 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 09:43	JAP	TAL PEN

Client Sample ID: SB-01 0'-11'

Lab Sample ID: 400-131381-4
Date Collected: 12/12/16 11:06
Matrix: Solid
Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 17:16	RRC	TAL PEN

Client Sample ID: SB-01 0'-11'

Lab Sample ID: 400-131381-4
Date Collected: 12/12/16 11:06
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 77.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.21 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 11:48	CS	TAL PEN
Total/NA	Prep	3546			15.32 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 19:51	KJA	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 16:06	MAM	TAL PEN
Total/NA	Prep	3546			15.38 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 12:09	MAM	TAL PEN
Total/NA	Prep	3050B			0.5397 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 18:48	RJB	TAL PEN
Total/NA	Prep	7471B			0.5203 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 09:44	JAP	TAL PEN

Client Sample ID: SB-02 0'-10'

Lab Sample ID: 400-131381-5
Date Collected: 12/12/16 11:22
Matrix: Solid
Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 17:16	RRC	TAL PEN

Client Sample ID: SB-02 0'-10'

Lab Sample ID: 400-131381-5
Date Collected: 12/12/16 11:22
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.26 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 12:13	CS	TAL PEN
Total/NA	Prep	3546			15.22 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 20:21	KJA	TAL PEN
Total/NA	Prep	3546			15.03 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 16:40	MAM	TAL PEN
Total/NA	Prep	3546			15.50 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 12:35	MAM	TAL PEN
Total/NA	Prep	3050B			0.5462 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 19:01	RJB	TAL PEN
Total/NA	Prep	7471B			0.5083 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 09:45	JAP	TAL PEN

Client Sample ID: B-02 0'-22'

Lab Sample ID: 400-131381-6
Date Collected: 12/12/16 12:50
Matrix: Solid
Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 17:16	RRC	TAL PEN

Client Sample ID: B-02 0'-22'

Lab Sample ID: 400-131381-6
Date Collected: 12/12/16 12:50
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.14 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN

Client Sample ID: B-02 0'-22'

Lab Sample ID: 400-131381-6
Date Collected: 12/12/16 12:50
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 74.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 12:38	CS	TAL PEN
Total/NA	Prep	3546			15.25 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 20:51	KJA	TAL PEN
Total/NA	Prep	3546			15.41 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 17:14	MAM	TAL PEN
Total/NA	Prep	3546			15.24 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 13:02	MAM	TAL PEN
Total/NA	Prep	3050B			0.5427 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 19:04	RJB	TAL PEN
Total/NA	Prep	7471B			0.5344 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 10:24	JAP	TAL PEN

Client Sample ID: SB-5 0'-11'

Lab Sample ID: 400-131381-7
Date Collected: 12/12/16 13:30
Matrix: Solid
Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 17:16	RRC	TAL PEN

Client Sample ID: SB-5 0'-11'

Lab Sample ID: 400-131381-7
Date Collected: 12/12/16 13:30
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.24 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 13:03	CS	TAL PEN
Total/NA	Prep	3546			15.48 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 21:21	KJA	TAL PEN
Total/NA	Prep	3546			15.43 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 17:48	MAM	TAL PEN
Total/NA	Prep	3546			15.37 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 13:28	MAM	TAL PEN
Total/NA	Prep	3050B			0.5346 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 19:07	RJB	TAL PEN
Total/NA	Prep	7471B			0.5265 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 10:25	JAP	TAL PEN

Client Sample ID: B-3 0'-14'

Lab Sample ID: 400-131381-8
Date Collected: 12/12/16 13:55
Matrix: Solid
Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:53	RRC	TAL PEN

Client Sample ID: B-3 0'-14'
Lab Sample ID: 400-131381-8
Date Collected: 12/12/16 13:55
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 77.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.29 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 13:28	CS	TAL PEN
Total/NA	Prep	3546			15.25 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 21:51	KJA	TAL PEN
Total/NA	Prep	3546			15.18 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 18:22	MAM	TAL PEN
Total/NA	Prep	3546			15.08 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 13:54	MAM	TAL PEN
Total/NA	Prep	3050B			0.5361 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 19:10	RJB	TAL PEN
Total/NA	Prep	7471B			0.5098 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 10:26	JAP	TAL PEN

Client Sample ID: B-6 0'-7'
Lab Sample ID: 400-131381-9
Date Collected: 12/12/16 14:15
Matrix: Solid
Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:53	RRC	TAL PEN

Client Sample ID: B-6 0'-7'
Lab Sample ID: 400-131381-9
Date Collected: 12/12/16 14:15
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.68 g	5.00 g	335338	12/16/16 08:39	HLW	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335285	12/16/16 11:21	HLW	TAL PEN
Total/NA	Prep	3546			15.35 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 22:21	KJA	TAL PEN
Total/NA	Prep	3546			15.22 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 18:55	MAM	TAL PEN
Total/NA	Prep	3050B			0.5445 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 19:14	RJB	TAL PEN
Total/NA	Prep	7471B			0.5023 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 10:27	JAP	TAL PEN

Client Sample ID: SB-3 0'-12'
Lab Sample ID: 400-131381-10
Date Collected: 12/12/16 14:50
Matrix: Solid
Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:53	RRC	TAL PEN

Client Sample ID: SB-3 0'-12'

Lab Sample ID: 400-131381-10

Date Collected: 12/12/16 14:50

Matrix: Solid

Date Received: 12/12/16 16:25

Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5.00 g	335338	12/16/16 08:39	HLW	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335285	12/16/16 13:27	HLW	TAL PEN
Total/NA	Prep	3546			15.48 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 22:51	KJA	TAL PEN
Total/NA	Prep	3546			15.48 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 19:28	MAM	TAL PEN
Total/NA	Prep	3546			15.08 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 14:21	MAM	TAL PEN
Total/NA	Prep	3050B			0.5491 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 19:17	RJB	TAL PEN
Total/NA	Prep	7471B			0.5022 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 10:29	JAP	TAL PEN

Client Sample ID: SB-4 0'-12'

Lab Sample ID: 400-131381-11

Date Collected: 12/12/16 15:05

Matrix: Solid

Date Received: 12/12/16 16:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:53	RRC	TAL PEN

Client Sample ID: SB-4 0'-12'

Lab Sample ID: 400-131381-11

Date Collected: 12/12/16 15:05

Matrix: Solid

Date Received: 12/12/16 16:25

Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.54 g	5.00 g	335338	12/16/16 08:39	HLW	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335285	12/16/16 13:52	HLW	TAL PEN
Total/NA	Prep	3546			15.18 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 23:21	KJA	TAL PEN
Total/NA	Prep	3546			15.27 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1	0.4 mL	1.0 mL	335301	12/16/16 13:37	MAM	TAL PEN
Total/NA	Prep	3546			15.25 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 14:47	MAM	TAL PEN
Total/NA	Prep	3050B			0.5522 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 19:20	RJB	TAL PEN
Total/NA	Prep	7471B			0.5131 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 10:30	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335096/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 08:52	MAM	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335109/15-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.22 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335301	12/16/16 11:22	MAM	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335120/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 08:52	CS	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335338/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	335338	12/16/16 08:39	HLW	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335285	12/16/16 10:18	HLW	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335612/14-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6097 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 09:33	JAP	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335767/1-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5034 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 18:19	RJB	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335798/15-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 17:20	KJA	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-336238/7-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.06 g	5.0 mL	336238	12/23/16 07:24	RDT	TAL PEN
Total/NA	Analysis	8082A		1			336638	12/28/16 10:47	AM	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-335096/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 09:18	MAM	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-335109/14-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1	0.4 mL	1.0 mL	335301	12/16/16 11:55	MAM	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-335120/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 07:53	CS	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-335338/2-A

Date Collected: N/A — **Matrix: Solid**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	335338	12/16/16 08:39	HLW	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335285	12/16/16 09:16	HLW	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335612/15-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6253 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 09:34	JAP	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335767/2-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			0.5072 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 18:22	RJB	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335798/14-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.07 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 17:50	KJA	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-336238/6-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	5.0 mL	336238	12/23/16 07:24	RDT	TAL PEN
Total/NA	Analysis	8082A		1			336638	12/28/16 11:14	AM	TAL PEN

Client Sample ID: B-5 0'-12'
Lab Sample ID: 400-131381-1 MS
Date Collected: 12/12/16 09:35
Matrix: Solid
Date Received: 12/12/16 16:25
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 09:42	CS	TAL PEN
Total/NA	Prep	3546			15.28 g	5.0 mL	336238	12/23/16 07:24	RDT	TAL PEN
Total/NA	Analysis	8082A		1			336638	12/28/16 11:40	AM	TAL PEN
Total/NA	Prep	3050B			0.5368 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 18:35	RJB	TAL PEN
Total/NA	Prep	7471B			0.5834 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 09:38	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: B-5 0'-12'
Date Collected: 12/12/16 09:35
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-1 MSD
Matrix: Solid
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.16 g	5.00 g	335120	12/15/16 07:18	RS	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335102	12/15/16 10:07	CS	TAL PEN
Total/NA	Prep	3546			15.29 g	5.0 mL	336238	12/23/16 07:24	RDT	TAL PEN
Total/NA	Analysis	8082A		1			336638	12/28/16 12:06	AM	TAL PEN
Total/NA	Prep	3050B			0.5394 g	50 mL	335767	12/20/16 13:55	DN1	TAL PEN
Total/NA	Analysis	6010B		1			336250	12/22/16 18:38	RJB	TAL PEN
Total/NA	Prep	7471B			0.5140 g	40 mL	335612	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 09:39	JAP	TAL PEN

Client Sample ID: B-6 0'-7'
Date Collected: 12/12/16 14:15
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-9 MS
Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5.00 g	335338	12/16/16 08:39	HLW	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335285	12/16/16 12:11	HLW	TAL PEN

Client Sample ID: B-6 0'-7'
Date Collected: 12/12/16 14:15
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-9 MSD
Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5.00 g	335338	12/16/16 08:39	HLW	TAL PEN
Total/NA	Analysis	8260B		1	5 mL	5 mL	335285	12/16/16 12:37	HLW	TAL PEN

Client Sample ID: SB-4 0'-12'
Date Collected: 12/12/16 15:05
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-11 MS
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/22/16 23:52	KJA	TAL PEN
Total/NA	Prep	3546			15.08 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN
Total/NA	Analysis	8270D		1	0.4 mL	1.0 mL	335301	12/16/16 12:29	MAM	TAL PEN

Client Sample ID: SB-4 0'-12'
Date Collected: 12/12/16 15:05
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-11 MSD
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	1.0 mL	335798	12/20/16 14:50	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336079	12/23/16 00:22	KJA	TAL PEN
Total/NA	Prep	3546			15.25 g	1.0 mL	335109	12/15/16 07:59	RDT	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC.

TestAmerica Job ID: 400-131381-1

Client Sample ID: SB-4 0'-12'

Date Collected: 12/12/16 15:05
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-11 MSD

Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8270D		1	0.4 mL	1.0 mL	335301	12/16/16 13:03	MAM	TAL PEN

Client Sample ID: 400-131381-C-1-A MS

Date Collected: 12/12/16 09:35
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-C-1-A MS

Matrix: Solid
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.28 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 10:01	MAM	TAL PEN

Client Sample ID: 400-131381-C-1-B MSD

Date Collected: 12/12/16 09:35
Date Received: 12/12/16 16:25

Lab Sample ID: 400-131381-C-1-B MSD

Matrix: Solid
Percent Solids: 78.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	5.0 mL	335096	12/14/16 19:48	NDB	TAL PEN
Total/NA	Analysis	8082A		1			336077	12/22/16 10:24	MAM	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRO

400-131381 COC

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-61170-25835.1
Client Contact: Ms. Melissa Montgomery	Phone: 251-665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 1
Company: Thompson Engineering Inc				Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested:			
City: Mobile	TAT Requested (days):			
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			
Email: mmontgomery@thompsonengineering.com	WO #:			
Project Name: C.E LLC.	Project #: 40003023			
Site: C.E. LLC	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Target Compound List	8082A, 8270D	6010B, 7471B	8260B - (MOD) tcl list of compounds	6010B, 7470A	8270D - TCL Semivolatiles List from CLPOLM4.2	8082A - TCL PCBs by 8082A	8270D	Total Number of containers	Special Instructions/Note:
			Preservation Code:		X	X	N	N	N	A	D	N	N	N		
B-5 0'-12'	12/12/16	0935	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
B-4 0'-16'	12/12/16	1009	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
B-1 0'-13'	12/12/16	1048	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
SB-01 0'-11'	12/12/16	1106	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
SB-02 0'-10'	12/12/16	1122	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
B-02 0'-22'	12/12/16	1250	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
SB-5 0'-11'	12/12/16	1330	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
B-3 0'-14'	12/12/16	1355	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
B-6 0'-7'	12/12/16	1415	C	Solid	N	N	1	X	1	X	X	X	X	1	3	VOC was grab
SB-3 0'-12'	12/12/16	1450	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab
SB-4 0'-12'	12/12/16	1505	C	Solid	N	N	1	1	1	/	/	/	/	/	3	VOC was grab

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Melissa M. Montgomery	12/12/16 @ 1625		Julia Tremblay	12/12/16 @ 1625	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
				12-12-16 @ 1625	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:
		3.0°C #5592

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12/30/2016

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-131420-1
Client Project/Site: C.E. LLC

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
12/30/2016 4:34:18 PM

Mike Nance, Service Center Manager
(251)706-3210
mike.nance@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Definitions/Glossary

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-131420-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-131420-1

Comments
No additional comments.

Receipt
The samples were received on 12/13/2016 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: The following analyte(s) recovered outside control limits for the LCSD associated with preparation batch 400-335357 and analytical batch 400-335575: Acetophenone. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TW-6 (400-131420-6). These results have been reported and qualified.

Method(s) 8270D: Physical properties (viscosity, color, odor) of the following sample(s) extract preclude concentrated analysis which would jeopardize instrumentation. Minimal dilution with elevated RLs is reported. TW-6 (400-131420-6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: TW-1
Date Collected: 12/13/16 11:35
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/18/16 13:12	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/18/16 13:12	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/18/16 13:12	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/18/16 13:12	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/18/16 13:12	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 13:12	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/18/16 13:12	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/18/16 13:12	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 13:12	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 13:12	1
2-Hexanone	<25		25		ug/L			12/18/16 13:12	1
Acetone	<25		25		ug/L			12/18/16 13:12	1
Benzene	<1.0		1.0		ug/L			12/18/16 13:12	1
Bromoform	<5.0		5.0		ug/L			12/18/16 13:12	1
Bromomethane	<1.0		1.0		ug/L			12/18/16 13:12	1
Carbon disulfide	<1.0		1.0		ug/L			12/18/16 13:12	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/18/16 13:12	1
Chlorobenzene	<1.0		1.0		ug/L			12/18/16 13:12	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/18/16 13:12	1
Chloroethane	<1.0		1.0		ug/L			12/18/16 13:12	1
Chloroform	<1.0		1.0		ug/L			12/18/16 13:12	1
Chloromethane	<1.0		1.0		ug/L			12/18/16 13:12	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 13:12	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 13:12	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/18/16 13:12	1
Ethylbenzene	<1.0		1.0		ug/L			12/18/16 13:12	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/18/16 13:12	1
2-Butanone (MEK)	<25		25		ug/L			12/18/16 13:12	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			12/18/16 13:12	1
Methylene Chloride	<5.0		5.0		ug/L			12/18/16 13:12	1
o-Xylene	<5.0		5.0		ug/L			12/18/16 13:12	1
Styrene	<1.0		1.0		ug/L			12/18/16 13:12	1
Tetrachloroethene	<1.0		1.0		ug/L			12/18/16 13:12	1
Toluene	<1.0		1.0		ug/L			12/18/16 13:12	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 13:12	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 13:12	1
Trichloroethene	<1.0		1.0		ug/L			12/18/16 13:12	1
Vinyl chloride	<1.0		1.0		ug/L			12/18/16 13:12	1
Xylenes, Total	<10		10		ug/L			12/18/16 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*12/18/16 13:12*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*12/18/16 13:12*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/18/16 13:12*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Acenaphthylene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Acetophenone	<11	*	11		ug/L		12/16/16 14:05	12/19/16 20:49	1

Client Sample ID: TW-1
Date Collected: 12/13/16 11:35
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Atrazine	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Benzaldehyde	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Benzo[a]anthracene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Benzo[a]pyrene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Benzo[b]fluoranthene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Benzo[g,h,i]perylene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Benzo[k]fluoranthene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
1,1'-Biphenyl	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Bis(2-chloroethyl)ether	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
bis (2-chloroisopropyl) ether	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
4-Bromophenyl phenyl ether	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Butyl benzyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Caprolactam	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Carbazole	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
4-Chloroaniline	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
4-Chloro-3-methylphenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2-Chloronaphthalene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2-Chlorophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Chrysene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Dibenz(a,h)anthracene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Dibenzofuran	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
3,3'-Dichlorobenzidine	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2,4-Dichlorophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Diethyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2,4-Dimethylphenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Dimethyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Di-n-butyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2,4-Dinitrophenol	<34		34		ug/L		12/16/16 14:05	12/19/16 20:49	1
2,4-Dinitrotoluene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2,6-Dinitrotoluene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Di-n-octyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Fluoranthene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Fluorene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Hexachlorobenzene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Hexachlorobutadiene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Hexachlorocyclopentadiene	<23		23		ug/L		12/16/16 14:05	12/19/16 20:49	1
Hexachloroethane	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Isophorone	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2-Methylnaphthalene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2-Methylphenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
3 & 4 Methylphenol	<23		23		ug/L		12/16/16 14:05	12/19/16 20:49	1
Naphthalene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2-Nitroaniline	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1

Client Sample ID: TW-1
Date Collected: 12/13/16 11:35
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-1
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
4-Nitroaniline	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Nitrobenzene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2-Nitrophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
4-Nitrophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
N-Nitrosodiphenylamine	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Pentachlorophenol	<23		23		ug/L		12/16/16 14:05	12/19/16 20:49	1
Phenanthrene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Phenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
Pyrene	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2,4,5-Trichlorophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1
2,4,6-Trichlorophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*46 - 124*	*12/16/16 14:05*	*12/19/16 20:49*	*1*
2-Fluorophenol (Surr)	*84*		*13 - 113*	*12/16/16 14:05*	*12/19/16 20:49*	*1*
Nitrobenzene-d5 (Surr)	*94*		*36 - 126*	*12/16/16 14:05*	*12/19/16 20:49*	*1*
Phenol-d5 (Surr)	*89*		*17 - 127*	*12/16/16 14:05*	*12/19/16 20:49*	*1*
Terphenyl-d14 (Surr)	*55*		*44 - 149*	*12/16/16 14:05*	*12/19/16 20:49*	*1*
2,4,6-Tribromophenol (Surr)	*102*		*26 - 150*	*12/16/16 14:05*	*12/19/16 20:49*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.48		0.48		ug/L		12/15/16 10:06	12/16/16 17:53	1
PCB-1221	<0.48		0.48		ug/L		12/15/16 10:06	12/16/16 17:53	1
PCB-1232	<0.48		0.48		ug/L		12/15/16 10:06	12/16/16 17:53	1
PCB-1242	<0.48		0.48		ug/L		12/15/16 10:06	12/16/16 17:53	1
PCB-1248	<0.48		0.48		ug/L		12/15/16 10:06	12/16/16 17:53	1
PCB-1254	<0.48		0.48		ug/L		12/15/16 10:06	12/16/16 17:53	1
PCB-1260	<0.48		0.48		ug/L		12/15/16 10:06	12/16/16 17:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*22*		*10 - 125*	*12/15/16 10:06*	*12/16/16 17:53*	*1*
Tetrachloro-m-xylene	*63*		*46 - 150*	*12/15/16 10:06*	*12/16/16 17:53*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 19:43	1
Arsenic	**0.0083**		0.0050		mg/L		12/21/16 11:28	12/22/16 19:43	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 19:43	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:43	1
Chromium	**0.018**		0.010		mg/L		12/21/16 11:28	12/22/16 19:43	1
Copper	**0.023**		0.010		mg/L		12/21/16 11:28	12/22/16 19:43	1
Lead	**0.023**		0.0050		mg/L		12/21/16 11:28	12/22/16 19:43	1
Nickel	**0.0079**		0.0050		mg/L		12/21/16 11:28	12/22/16 19:43	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:43	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:43	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:43	1
Zinc	**0.068**		0.020		mg/L		12/21/16 11:28	12/22/16 19:43	1

Client Sample Results

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-1
Date Collected: 12/13/16 11:35
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-1
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/16 09:20	12/30/16 13:59	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-2
Date Collected: 12/12/16 16:05
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/18/16 13:38	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/18/16 13:38	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/18/16 13:38	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/18/16 13:38	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/18/16 13:38	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 13:38	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/18/16 13:38	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/18/16 13:38	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 13:38	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 13:38	1
2-Hexanone	<25		25		ug/L			12/18/16 13:38	1
Acetone	<25		25		ug/L			12/18/16 13:38	1
Benzene	<1.0		1.0		ug/L			12/18/16 13:38	1
Bromoform	<5.0		5.0		ug/L			12/18/16 13:38	1
Bromomethane	<1.0		1.0		ug/L			12/18/16 13:38	1
Carbon disulfide	<1.0		1.0		ug/L			12/18/16 13:38	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/18/16 13:38	1
Chlorobenzene	<1.0		1.0		ug/L			12/18/16 13:38	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/18/16 13:38	1
Chloroethane	<1.0		1.0		ug/L			12/18/16 13:38	1
Chloroform	<1.0		1.0		ug/L			12/18/16 13:38	1
Chloromethane	<1.0		1.0		ug/L			12/18/16 13:38	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 13:38	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 13:38	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/18/16 13:38	1
Ethylbenzene	<1.0		1.0		ug/L			12/18/16 13:38	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/18/16 13:38	1
2-Butanone (MEK)	<25		25		ug/L			12/18/16 13:38	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			12/18/16 13:38	1
Methylene Chloride	<5.0		5.0		ug/L			12/18/16 13:38	1
o-Xylene	<5.0		5.0		ug/L			12/18/16 13:38	1
Styrene	<1.0		1.0		ug/L			12/18/16 13:38	1
Tetrachloroethene	<1.0		1.0		ug/L			12/18/16 13:38	1
Toluene	<1.0		1.0		ug/L			12/18/16 13:38	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 13:38	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 13:38	1
Trichloroethene	<1.0		1.0		ug/L			12/18/16 13:38	1
Vinyl chloride	<1.0		1.0		ug/L			12/18/16 13:38	1
Xylenes, Total	<10		10		ug/L			12/18/16 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*12/18/16 13:38*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*12/18/16 13:38*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/18/16 13:38*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Acenaphthylene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Acetophenone	<10	*	10		ug/L		12/16/16 14:05	12/19/16 21:22	1

Client Sample ID: TW-2
Date Collected: 12/12/16 16:05
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Atrazine	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Benzaldehyde	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Benzo[a]anthracene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Benzo[a]pyrene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Benzo[b]fluoranthene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Benzo[g,h,i]perylene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Benzo[k]fluoranthene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
1,1'-Biphenyl	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Bis(2-chloroethyl)ether	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
bis (2-chloroisopropyl) ether	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
4-Bromophenyl phenyl ether	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Butyl benzyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Caprolactam	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Carbazole	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
4-Chloroaniline	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
4-Chloro-3-methylphenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2-Chloronaphthalene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2-Chlorophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Chrysene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Dibenz(a,h)anthracene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Dibenzofuran	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
3,3'-Dichlorobenzidine	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2,4-Dichlorophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Diethyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2,4-Dimethylphenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Dimethyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Di-n-butyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2,4-Dinitrophenol	<30		30		ug/L		12/16/16 14:05	12/19/16 21:22	1
2,4-Dinitrotoluene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2,6-Dinitrotoluene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Di-n-octyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Fluoranthene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Fluorene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Hexachlorobenzene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Hexachlorobutadiene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Hexachlorocyclopentadiene	<20		20		ug/L		12/16/16 14:05	12/19/16 21:22	1
Hexachloroethane	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Isophorone	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2-Methylnaphthalene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2-Methylphenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
3 & 4 Methylphenol	<20		20		ug/L		12/16/16 14:05	12/19/16 21:22	1
Naphthalene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1

Client Sample ID: TW-2
Date Collected: 12/12/16 16:05
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-2
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
4-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Nitrobenzene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2-Nitrophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
4-Nitrophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
N-Nitrosodiphenylamine	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Pentachlorophenol	<20		20		ug/L		12/16/16 14:05	12/19/16 21:22	1
Phenanthrene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Phenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
Pyrene	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2,4,5-Trichlorophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1
2,4,6-Trichlorophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 21:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*89*		*46 - 124*	*12/16/16 14:05*	*12/19/16 21:22*	*1*
2-Fluorophenol (Surr)	*77*		*13 - 113*	*12/16/16 14:05*	*12/19/16 21:22*	*1*
Nitrobenzene-d5 (Surr)	*88*		*36 - 126*	*12/16/16 14:05*	*12/19/16 21:22*	*1*
Phenol-d5 (Surr)	*81*		*17 - 127*	*12/16/16 14:05*	*12/19/16 21:22*	*1*
Terphenyl-d14 (Surr)	*79*		*44 - 149*	*12/16/16 14:05*	*12/19/16 21:22*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*26 - 150*	*12/16/16 14:05*	*12/19/16 21:22*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 18:19	1
PCB-1221	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 18:19	1
PCB-1232	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 18:19	1
PCB-1242	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 18:19	1
PCB-1248	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 18:19	1
PCB-1254	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 18:19	1
PCB-1260	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*41*		*10 - 125*	*12/15/16 10:06*	*12/16/16 18:19*	*1*
Tetrachloro-m-xylene	*81*		*46 - 150*	*12/15/16 10:06*	*12/16/16 18:19*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 19:55	1
Arsenic	**0.0056**		0.0050		mg/L		12/21/16 11:28	12/22/16 19:55	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 19:55	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:55	1
Chromium	**0.017**		0.010		mg/L		12/21/16 11:28	12/22/16 19:55	1
Copper	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:55	1
Lead	**0.010**		0.0050		mg/L		12/21/16 11:28	12/22/16 19:55	1
Nickel	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:55	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:55	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:55	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:55	1
Zinc	**0.024**		0.020		mg/L		12/21/16 11:28	12/22/16 19:55	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-2
Date Collected: 12/12/16 16:05
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-2
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/16 09:20	12/30/16 14:09	1

Client Sample ID: TW-3
Date Collected: 12/12/16 17:38
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/18/16 14:02	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/18/16 14:02	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/18/16 14:02	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/18/16 14:02	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:02	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:02	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/18/16 14:02	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/18/16 14:02	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:02	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:02	1
2-Hexanone	<25		25		ug/L			12/18/16 14:02	1
Acetone	<25		25		ug/L			12/18/16 14:02	1
Benzene	<1.0		1.0		ug/L			12/18/16 14:02	1
Bromoform	<5.0		5.0		ug/L			12/18/16 14:02	1
Bromomethane	<1.0		1.0		ug/L			12/18/16 14:02	1
Carbon disulfide	<1.0		1.0		ug/L			12/18/16 14:02	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/18/16 14:02	1
Chlorobenzene	<1.0		1.0		ug/L			12/18/16 14:02	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/18/16 14:02	1
Chloroethane	<1.0		1.0		ug/L			12/18/16 14:02	1
Chloroform	<1.0		1.0		ug/L			12/18/16 14:02	1
Chloromethane	<1.0		1.0		ug/L			12/18/16 14:02	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:02	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 14:02	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/18/16 14:02	1
Ethylbenzene	<1.0		1.0		ug/L			12/18/16 14:02	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/18/16 14:02	1
2-Butanone (MEK)	<25		25		ug/L			12/18/16 14:02	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			12/18/16 14:02	1
Methylene Chloride	<5.0		5.0		ug/L			12/18/16 14:02	1
o-Xylene	<5.0		5.0		ug/L			12/18/16 14:02	1
Styrene	<1.0		1.0		ug/L			12/18/16 14:02	1
Tetrachloroethene	<1.0		1.0		ug/L			12/18/16 14:02	1
Toluene	<1.0		1.0		ug/L			12/18/16 14:02	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:02	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 14:02	1
Trichloroethene	<1.0		1.0		ug/L			12/18/16 14:02	1
Vinyl chloride	<1.0		1.0		ug/L			12/18/16 14:02	1
Xylenes, Total	<10		10		ug/L			12/18/16 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*12/18/16 14:02*	*1*
Dibromofluoromethane	*102*		*81 - 121*		*12/18/16 14:02*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/18/16 14:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Acenaphthylene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Acetophenone	<9.3	*	9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-3
Date Collected: 12/12/16 17:38
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Atrazine	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Benzaldehyde	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Benzo[a]anthracene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Benzo[a]pyrene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Benzo[b]fluoranthene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Benzo[g,h,i]perylene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Benzo[k]fluoranthene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
1,1'-Biphenyl	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Bis(2-chloroethoxy)methane	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Bis(2-chloroethyl)ether	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
bis (2-chloroisopropyl) ether	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Bis(2-ethylhexyl) phthalate	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
4-Bromophenyl phenyl ether	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Butyl benzyl phthalate	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Caprolactam	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Carbazole	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
4-Chloroaniline	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
4-Chloro-3-methylphenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2-Chloronaphthalene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2-Chlorophenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
4-Chlorophenyl phenyl ether	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Chrysene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Dibenz(a,h)anthracene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Dibenzofuran	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
3,3'-Dichlorobenzidine	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2,4-Dichlorophenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Diethyl phthalate	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2,4-Dimethylphenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Dimethyl phthalate	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Di-n-butyl phthalate	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
4,6-Dinitro-2-methylphenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2,4-Dinitrophenol	<28		28		ug/L		12/16/16 14:05	12/19/16 21:55	1
2,4-Dinitrotoluene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2,6-Dinitrotoluene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Di-n-octyl phthalate	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Fluoranthene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Fluorene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Hexachlorobenzene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Hexachlorobutadiene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Hexachlorocyclopentadiene	<19		19		ug/L		12/16/16 14:05	12/19/16 21:55	1
Hexachloroethane	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Indeno[1,2,3-cd]pyrene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Isophorone	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2-Methylnaphthalene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2-Methylphenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
3 & 4 Methylphenol	<19		19		ug/L		12/16/16 14:05	12/19/16 21:55	1
Naphthalene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2-Nitroaniline	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1

Client Sample ID: TW-3
Date Collected: 12/12/16 17:38
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-3
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
4-Nitroaniline	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Nitrobenzene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2-Nitrophenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
4-Nitrophenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
N-Nitrosodi-n-propylamine	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
N-Nitrosodiphenylamine	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Pentachlorophenol	<19		19		ug/L		12/16/16 14:05	12/19/16 21:55	1
Phenanthrene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Phenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
Pyrene	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2,4,5-Trichlorophenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1
2,4,6-Trichlorophenol	<9.3		9.3		ug/L		12/16/16 14:05	12/19/16 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*86*		*46 - 124*	*12/16/16 14:05*	*12/19/16 21:55*	*1*
2-Fluorophenol (Surr)	*75*		*13 - 113*	*12/16/16 14:05*	*12/19/16 21:55*	*1*
Nitrobenzene-d5 (Surr)	*87*		*36 - 126*	*12/16/16 14:05*	*12/19/16 21:55*	*1*
Phenol-d5 (Surr)	*80*		*17 - 127*	*12/16/16 14:05*	*12/19/16 21:55*	*1*
Terphenyl-d14 (Surr)	*87*		*44 - 149*	*12/16/16 14:05*	*12/19/16 21:55*	*1*
2,4,6-Tribromophenol (Surr)	*89*		*26 - 150*	*12/16/16 14:05*	*12/19/16 21:55*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.46		0.46		ug/L		12/15/16 10:06	12/16/16 18:45	1
PCB-1221	<0.46		0.46		ug/L		12/15/16 10:06	12/16/16 18:45	1
PCB-1232	<0.46		0.46		ug/L		12/15/16 10:06	12/16/16 18:45	1
PCB-1242	<0.46		0.46		ug/L		12/15/16 10:06	12/16/16 18:45	1
PCB-1248	<0.46		0.46		ug/L		12/15/16 10:06	12/16/16 18:45	1
PCB-1254	<0.46		0.46		ug/L		12/15/16 10:06	12/16/16 18:45	1
PCB-1260	<0.46		0.46		ug/L		12/15/16 10:06	12/16/16 18:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*36*		*10 - 125*	*12/15/16 10:06*	*12/16/16 18:45*	*1*
Tetrachloro-m-xylene	*80*		*46 - 150*	*12/15/16 10:06*	*12/16/16 18:45*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 19:58	1
Arsenic	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:58	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 19:58	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:58	1
Chromium	**0.022**		0.010		mg/L		12/21/16 11:28	12/22/16 19:58	1
Copper	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:58	1
Lead	**0.0089**		0.0050		mg/L		12/21/16 11:28	12/22/16 19:58	1
Nickel	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:58	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:58	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:58	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:58	1
Zinc	<0.020		0.020		mg/L		12/21/16 11:28	12/22/16 19:58	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-3
Date Collected: 12/12/16 17:38
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-3
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/16 09:20	12/30/16 14:10	1

Client Sample ID: TW-4
Date Collected: 12/12/16 14:12
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/18/16 14:28	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/18/16 14:28	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/18/16 14:28	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/18/16 14:28	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:28	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:28	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/18/16 14:28	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/18/16 14:28	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:28	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:28	1
2-Hexanone	<25		25		ug/L			12/18/16 14:28	1
Acetone	<25		25		ug/L			12/18/16 14:28	1
Benzene	<1.0		1.0		ug/L			12/18/16 14:28	1
Bromoform	<5.0		5.0		ug/L			12/18/16 14:28	1
Bromomethane	<1.0		1.0		ug/L			12/18/16 14:28	1
Carbon disulfide	<1.0		1.0		ug/L			12/18/16 14:28	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/18/16 14:28	1
Chlorobenzene	<1.0		1.0		ug/L			12/18/16 14:28	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/18/16 14:28	1
Chloroethane	<1.0		1.0		ug/L			12/18/16 14:28	1
Chloroform	<1.0		1.0		ug/L			12/18/16 14:28	1
Chloromethane	<1.0		1.0		ug/L			12/18/16 14:28	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:28	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 14:28	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/18/16 14:28	1
Ethylbenzene	<1.0		1.0		ug/L			12/18/16 14:28	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/18/16 14:28	1
2-Butanone (MEK)	<25		25		ug/L			12/18/16 14:28	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			12/18/16 14:28	1
Methylene Chloride	<5.0		5.0		ug/L			12/18/16 14:28	1
o-Xylene	<5.0		5.0		ug/L			12/18/16 14:28	1
Styrene	<1.0		1.0		ug/L			12/18/16 14:28	1
Tetrachloroethene	<1.0		1.0		ug/L			12/18/16 14:28	1
Toluene	<1.0		1.0		ug/L			12/18/16 14:28	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:28	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 14:28	1
Trichloroethene	<1.0		1.0		ug/L			12/18/16 14:28	1
Vinyl chloride	<1.0		1.0		ug/L			12/18/16 14:28	1
Xylenes, Total	<10		10		ug/L			12/18/16 14:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*12/18/16 14:28*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*12/18/16 14:28*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/18/16 14:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Acenaphthylene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Acetophenone	<11	*	11		ug/L		12/16/16 14:05	12/19/16 22:28	1

Client Sample ID: TW-4
Date Collected: 12/12/16 14:12
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Atrazine	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Benzaldehyde	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Benzo[a]anthracene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Benzo[a]pyrene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Benzo[b]fluoranthene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Benzo[g,h,i]perylene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Benzo[k]fluoranthene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
1,1'-Biphenyl	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Bis(2-chloroethoxy)methane	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Bis(2-chloroethyl)ether	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
bis (2-chloroisopropyl) ether	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Bis(2-ethylhexyl) phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
4-Bromophenyl phenyl ether	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Butyl benzyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Caprolactam	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Carbazole	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
4-Chloroaniline	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
4-Chloro-3-methylphenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2-Chloronaphthalene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2-Chlorophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
4-Chlorophenyl phenyl ether	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Chrysene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Dibenz(a,h)anthracene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Dibenzofuran	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
3,3'-Dichlorobenzidine	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2,4-Dichlorophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Diethyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2,4-Dimethylphenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Dimethyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Di-n-butyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
4,6-Dinitro-2-methylphenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2,4-Dinitrophenol	<33		33		ug/L		12/16/16 14:05	12/19/16 22:28	1
2,4-Dinitrotoluene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2,6-Dinitrotoluene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Di-n-octyl phthalate	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Fluoranthene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Fluorene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Hexachlorobenzene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Hexachlorobutadiene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Hexachlorocyclopentadiene	<22		22		ug/L		12/16/16 14:05	12/19/16 22:28	1
Hexachloroethane	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Indeno[1,2,3-cd]pyrene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Isophorone	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2-Methylnaphthalene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2-Methylphenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
3 & 4 Methylphenol	<22		22		ug/L		12/16/16 14:05	12/19/16 22:28	1
Naphthalene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2-Nitroaniline	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1

Client Sample ID: TW-4
Date Collected: 12/12/16 14:12
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-4
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
4-Nitroaniline	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Nitrobenzene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2-Nitrophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
4-Nitrophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
N-Nitrosodi-n-propylamine	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
N-Nitrosodiphenylamine	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Pentachlorophenol	<22		22		ug/L		12/16/16 14:05	12/19/16 22:28	1
Phenanthrene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Phenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
Pyrene	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2,4,5-Trichlorophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1
2,4,6-Trichlorophenol	<11		11		ug/L		12/16/16 14:05	12/19/16 22:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*88*		*46 - 124*	*12/16/16 14:05*	*12/19/16 22:28*	*1*
2-Fluorophenol (Surr)	*54*		*13 - 113*	*12/16/16 14:05*	*12/19/16 22:28*	*1*
Nitrobenzene-d5 (Surr)	*87*		*36 - 126*	*12/16/16 14:05*	*12/19/16 22:28*	*1*
Phenol-d5 (Surr)	*73*		*17 - 127*	*12/16/16 14:05*	*12/19/16 22:28*	*1*
Terphenyl-d14 (Surr)	*87*		*44 - 149*	*12/16/16 14:05*	*12/19/16 22:28*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*26 - 150*	*12/16/16 14:05*	*12/19/16 22:28*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.49		0.49		ug/L		12/15/16 10:06	12/16/16 19:12	1
PCB-1221	<0.49		0.49		ug/L		12/15/16 10:06	12/16/16 19:12	1
PCB-1232	<0.49		0.49		ug/L		12/15/16 10:06	12/16/16 19:12	1
PCB-1242	<0.49		0.49		ug/L		12/15/16 10:06	12/16/16 19:12	1
PCB-1248	<0.49		0.49		ug/L		12/15/16 10:06	12/16/16 19:12	1
PCB-1254	<0.49		0.49		ug/L		12/15/16 10:06	12/16/16 19:12	1
PCB-1260	<0.49		0.49		ug/L		12/15/16 10:06	12/16/16 19:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*59*		*10 - 125*	*12/15/16 10:06*	*12/16/16 19:12*	*1*
Tetrachloro-m-xylene	*83*		*46 - 150*	*12/15/16 10:06*	*12/16/16 19:12*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 20:02	1
Arsenic	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:02	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 20:02	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:02	1
Chromium	**0.025**		0.010		mg/L		12/21/16 11:28	12/22/16 20:02	1
Copper	**0.023**		0.010		mg/L		12/21/16 11:28	12/22/16 20:02	1
Lead	**0.0089**		0.0050		mg/L		12/21/16 11:28	12/22/16 20:02	1
Nickel	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:02	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:02	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:02	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:02	1
Zinc	**0.020**		0.020		mg/L		12/21/16 11:28	12/22/16 20:02	1

Client Sample Results

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-4
Date Collected: 12/12/16 14:12
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-4
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/16 09:20	12/30/16 14:12	1

Client Sample ID: TW-5
Date Collected: 12/12/16 11:45
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/18/16 14:53	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/18/16 14:53	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/18/16 14:53	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/18/16 14:53	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:53	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:53	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/18/16 14:53	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/18/16 14:53	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:53	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 14:53	1
2-Hexanone	<25		25		ug/L			12/18/16 14:53	1
Acetone	<25		25		ug/L			12/18/16 14:53	1
Benzene	<1.0		1.0		ug/L			12/18/16 14:53	1
Bromoform	<5.0		5.0		ug/L			12/18/16 14:53	1
Bromomethane	<1.0		1.0		ug/L			12/18/16 14:53	1
Carbon disulfide	<1.0		1.0		ug/L			12/18/16 14:53	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/18/16 14:53	1
Chlorobenzene	<1.0		1.0		ug/L			12/18/16 14:53	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/18/16 14:53	1
Chloroethane	<1.0		1.0		ug/L			12/18/16 14:53	1
Chloroform	<1.0		1.0		ug/L			12/18/16 14:53	1
Chloromethane	<1.0		1.0		ug/L			12/18/16 14:53	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:53	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 14:53	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/18/16 14:53	1
Ethylbenzene	<1.0		1.0		ug/L			12/18/16 14:53	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/18/16 14:53	1
2-Butanone (MEK)	<25		25		ug/L			12/18/16 14:53	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			12/18/16 14:53	1
Methylene Chloride	<5.0		5.0		ug/L			12/18/16 14:53	1
o-Xylene	<5.0		5.0		ug/L			12/18/16 14:53	1
Styrene	<1.0		1.0		ug/L			12/18/16 14:53	1
Tetrachloroethene	<1.0		1.0		ug/L			12/18/16 14:53	1
Toluene	<1.0		1.0		ug/L			12/18/16 14:53	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 14:53	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 14:53	1
Trichloroethene	<1.0		1.0		ug/L			12/18/16 14:53	1
Vinyl chloride	<1.0		1.0		ug/L			12/18/16 14:53	1
Xylenes, Total	<10		10		ug/L			12/18/16 14:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*12/18/16 14:53*	*1*
Dibromofluoromethane	*103*		*81 - 121*		*12/18/16 14:53*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/18/16 14:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Acenaphthylene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Acetophenone	<10	*	10		ug/L		12/16/16 14:05	12/20/16 16:49	1

Client Sample ID: TW-5
Date Collected: 12/12/16 11:45
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Atrazine	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Benzaldehyde	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Benzo[a]anthracene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Benzo[a]pyrene	<10		10		ug/L		12/16/16 14:05	12/21/16 20:43	1
Benzo[b]fluoranthene	<10		10		ug/L		12/16/16 14:05	12/21/16 20:43	1
Benzo[g,h,i]perylene	<10		10		ug/L		12/16/16 14:05	12/21/16 20:43	1
Benzo[k]fluoranthene	<10		10		ug/L		12/16/16 14:05	12/21/16 20:43	1
1,1'-Biphenyl	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Bis(2-chloroethyl)ether	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
bis (2-chloroisopropyl) ether	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
4-Bromophenyl phenyl ether	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Butyl benzyl phthalate	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Caprolactam	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Carbazole	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
4-Chloroaniline	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
4-Chloro-3-methylphenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2-Chloronaphthalene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2-Chlorophenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Chrysene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Dibenz(a,h)anthracene	<10		10		ug/L		12/16/16 14:05	12/21/16 20:43	1
Dibenzofuran	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
3,3'-Dichlorobenzidine	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2,4-Dichlorophenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Diethyl phthalate	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2,4-Dimethylphenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Dimethyl phthalate	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Di-n-butyl phthalate	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2,4-Dinitrophenol	<31		31		ug/L		12/16/16 14:05	12/20/16 16:49	1
2,4-Dinitrotoluene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2,6-Dinitrotoluene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Di-n-octyl phthalate	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Fluoranthene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Fluorene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Hexachlorobenzene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Hexachlorobutadiene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Hexachlorocyclopentadiene	<20		20		ug/L		12/16/16 14:05	12/20/16 16:49	1
Hexachloroethane	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		12/16/16 14:05	12/21/16 20:43	1
Isophorone	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2-Methylnaphthalene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2-Methylphenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
3 & 4 Methylphenol	<20		20		ug/L		12/16/16 14:05	12/20/16 16:49	1
Naphthalene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1

Client Sample ID: TW-5
Date Collected: 12/12/16 11:45
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
4-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Nitrobenzene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2-Nitrophenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
4-Nitrophenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
N-Nitrosodiphenylamine	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Pentachlorophenol	<20		20		ug/L		12/16/16 14:05	12/20/16 16:49	1
Phenanthrene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Phenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
Pyrene	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2,4,5-Trichlorophenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1
2,4,6-Trichlorophenol	<10		10		ug/L		12/16/16 14:05	12/20/16 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*76*		*46 - 124*	*12/16/16 14:05*	*12/20/16 16:49*	*1*
2-Fluorophenol (Surr)	*49*		*13 - 113*	*12/16/16 14:05*	*12/20/16 16:49*	*1*
Nitrobenzene-d5 (Surr)	*69*		*36 - 126*	*12/16/16 14:05*	*12/20/16 16:49*	*1*
Phenol-d5 (Surr)	*63*		*17 - 127*	*12/16/16 14:05*	*12/20/16 16:49*	*1*
Terphenyl-d14 (Surr)	*99*		*44 - 149*	*12/16/16 14:05*	*12/20/16 16:49*	*1*
2,4,6-Tribromophenol (Surr)	*84*		*26 - 150*	*12/16/16 14:05*	*12/20/16 16:49*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 19:38	1
PCB-1221	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 19:38	1
PCB-1232	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 19:38	1
PCB-1242	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 19:38	1
PCB-1248	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 19:38	1
PCB-1254	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 19:38	1
PCB-1260	<0.51		0.51		ug/L		12/15/16 10:06	12/16/16 19:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*10 - 125*	*12/15/16 10:06*	*12/16/16 19:38*	*1*
Tetrachloro-m-xylene	*66*		*46 - 150*	*12/15/16 10:06*	*12/16/16 19:38*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 20:05	1
Arsenic	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:05	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 20:05	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:05	1
Chromium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:05	1
Copper	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:05	1
Lead	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:05	1
Nickel	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:05	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:05	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:05	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:05	1
Zinc	<0.020		0.020		mg/L		12/21/16 11:28	12/22/16 20:05	1

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-5
Date Collected: 12/12/16 11:45
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-5
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/16 09:20	12/30/16 14:13	1

Client Sample ID: TW-6
Date Collected: 12/13/16 12:05
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/18/16 15:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/18/16 15:17	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/18/16 15:17	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/18/16 15:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/18/16 15:17	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 15:17	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/18/16 15:17	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/18/16 15:17	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 15:17	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 15:17	1
2-Hexanone	<25		25		ug/L			12/18/16 15:17	1
Acetone	<25		25		ug/L			12/18/16 15:17	1
Benzene	<1.0		1.0		ug/L			12/18/16 15:17	1
Bromoform	<5.0		5.0		ug/L			12/18/16 15:17	1
Bromomethane	<1.0		1.0		ug/L			12/18/16 15:17	1
Carbon disulfide	<1.0		1.0		ug/L			12/18/16 15:17	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/18/16 15:17	1
Chlorobenzene	<1.0		1.0		ug/L			12/18/16 15:17	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/18/16 15:17	1
Chloroethane	<1.0		1.0		ug/L			12/18/16 15:17	1
Chloroform	<1.0		1.0		ug/L			12/18/16 15:17	1
Chloromethane	<1.0		1.0		ug/L			12/18/16 15:17	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 15:17	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 15:17	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/18/16 15:17	1
Ethylbenzene	<1.0		1.0		ug/L			12/18/16 15:17	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/18/16 15:17	1
2-Butanone (MEK)	<25		25		ug/L			12/18/16 15:17	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			12/18/16 15:17	1
Methylene Chloride	<5.0		5.0		ug/L			12/18/16 15:17	1
o-Xylene	<5.0		5.0		ug/L			12/18/16 15:17	1
Styrene	<1.0		1.0		ug/L			12/18/16 15:17	1
Tetrachloroethene	<1.0		1.0		ug/L			12/18/16 15:17	1
Toluene	<1.0		1.0		ug/L			12/18/16 15:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 15:17	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 15:17	1
Trichloroethene	<1.0		1.0		ug/L			12/18/16 15:17	1
Vinyl chloride	<1.0		1.0		ug/L			12/18/16 15:17	1
Xylenes, Total	<10		10		ug/L			12/18/16 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*93*		*78 - 118*		*12/18/16 15:17*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*12/18/16 15:17*	*1*
Toluene-d8 (Surr)	*90*		*80 - 120*		*12/18/16 15:17*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Acenaphthylene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Acetophenone	<23	*	23		ug/L		12/16/16 14:05	12/20/16 17:22	2

Client Sample ID: TW-6
Date Collected: 12/13/16 12:05
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Atrazine	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Benzaldehyde	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Benzo[a]anthracene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Benzo[a]pyrene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Benzo[b]fluoranthene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Benzo[g,h,i]perylene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Benzo[k]fluoranthene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
1,1'-Biphenyl	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Bis(2-chloroethoxy)methane	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Bis(2-chloroethyl)ether	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
bis (2-chloroisopropyl) ether	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Bis(2-ethylhexyl) phthalate	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
4-Bromophenyl phenyl ether	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Butyl benzyl phthalate	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Caprolactam	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Carbazole	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
4-Chloroaniline	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
4-Chloro-3-methylphenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2-Chloronaphthalene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2-Chlorophenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
4-Chlorophenyl phenyl ether	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Chrysene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Dibenz(a,h)anthracene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Dibenzofuran	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
3,3'-Dichlorobenzidine	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2,4-Dichlorophenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Diethyl phthalate	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2,4-Dimethylphenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Dimethyl phthalate	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Di-n-butyl phthalate	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
4,6-Dinitro-2-methylphenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2,4-Dinitrophenol	<70		70		ug/L		12/16/16 14:05	12/20/16 17:22	2
2,4-Dinitrotoluene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2,6-Dinitrotoluene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Di-n-octyl phthalate	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Fluoranthene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Fluorene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Hexachlorobenzene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Hexachlorobutadiene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Hexachlorocyclopentadiene	<47		47		ug/L		12/16/16 14:05	12/20/16 17:22	2
Hexachloroethane	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Indeno[1,2,3-cd]pyrene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Isophorone	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2-Methylnaphthalene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2-Methylphenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
3 & 4 Methylphenol	<47		47		ug/L		12/16/16 14:05	12/20/16 17:22	2
Naphthalene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2-Nitroaniline	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2

Client Sample ID: TW-6
Date Collected: 12/13/16 12:05
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-6
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
3-Nitroaniline	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
4-Nitroaniline	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Nitrobenzene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2-Nitrophenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
4-Nitrophenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
N-Nitrosodi-n-propylamine	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
N-Nitrosodiphenylamine	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Pentachlorophenol	<47		47		ug/L		12/16/16 14:05	12/20/16 17:22	2
Phenanthrene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Phenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
Pyrene	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2,4,5-Trichlorophenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2
2,4,6-Trichlorophenol	<23		23		ug/L		12/16/16 14:05	12/20/16 17:22	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*55*		*46 - 124*	*12/16/16 14:05*	*12/20/16 17:22*	*2*
2-Fluorophenol (Surr)	*32*		*13 - 113*	*12/16/16 14:05*	*12/20/16 17:22*	*2*
Nitrobenzene-d5 (Surr)	*52*		*36 - 126*	*12/16/16 14:05*	*12/20/16 17:22*	*2*
Phenol-d5 (Surr)	*44*		*17 - 127*	*12/16/16 14:05*	*12/20/16 17:22*	*2*
Terphenyl-d14 (Surr)	*33*	*X*	*44 - 149*	*12/16/16 14:05*	*12/20/16 17:22*	*2*
2,4,6-Tribromophenol (Surr)	*53*		*26 - 150*	*12/16/16 14:05*	*12/20/16 17:22*	*2*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 20:08	1
Arsenic	**0.014**		0.0050		mg/L		12/21/16 11:28	12/22/16 20:08	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 20:08	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:08	1
Chromium	**0.046**		0.010		mg/L		12/21/16 11:28	12/22/16 20:08	1
Copper	**0.022**		0.010		mg/L		12/21/16 11:28	12/22/16 20:08	1
Lead	**0.026**		0.0050		mg/L		12/21/16 11:28	12/22/16 20:08	1
Nickel	**0.021**		0.0050		mg/L		12/21/16 11:28	12/22/16 20:08	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:08	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:08	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:08	1
Zinc	**0.12**		0.020		mg/L		12/21/16 11:28	12/22/16 20:08	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.00020**		0.00020		mg/L		12/27/16 09:20	12/30/16 14:18	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-335468/4
Matrix: Water
Analysis Batch: 335468

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/18/16 08:43	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/18/16 08:43	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/18/16 08:43	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/18/16 08:43	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/18/16 08:43	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 08:43	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/18/16 08:43	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/18/16 08:43	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 08:43	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			12/18/16 08:43	1
2-Hexanone	<25		25		ug/L			12/18/16 08:43	1
Acetone	<25		25		ug/L			12/18/16 08:43	1
Benzene	<1.0		1.0		ug/L			12/18/16 08:43	1
Bromoform	<5.0		5.0		ug/L			12/18/16 08:43	1
Bromomethane	<1.0		1.0		ug/L			12/18/16 08:43	1
Carbon disulfide	<1.0		1.0		ug/L			12/18/16 08:43	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/18/16 08:43	1
Chlorobenzene	<1.0		1.0		ug/L			12/18/16 08:43	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/18/16 08:43	1
Chloroethane	<1.0		1.0		ug/L			12/18/16 08:43	1
Chloroform	<1.0		1.0		ug/L			12/18/16 08:43	1
Chloromethane	<1.0		1.0		ug/L			12/18/16 08:43	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 08:43	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 08:43	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/18/16 08:43	1
Ethylbenzene	<1.0		1.0		ug/L			12/18/16 08:43	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/18/16 08:43	1
2-Butanone (MEK)	<25		25		ug/L			12/18/16 08:43	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			12/18/16 08:43	1
Methylene Chloride	<5.0		5.0		ug/L			12/18/16 08:43	1
o-Xylene	<5.0		5.0		ug/L			12/18/16 08:43	1
Styrene	<1.0		1.0		ug/L			12/18/16 08:43	1
Tetrachloroethene	<1.0		1.0		ug/L			12/18/16 08:43	1
Toluene	<1.0		1.0		ug/L			12/18/16 08:43	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/18/16 08:43	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/18/16 08:43	1
Trichloroethene	<1.0		1.0		ug/L			12/18/16 08:43	1
Vinyl chloride	<1.0		1.0		ug/L			12/18/16 08:43	1
Xylenes, Total	<10		10		ug/L			12/18/16 08:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*92*		*78 - 118*		*12/18/16 08:43*	*1*
Dibromofluoromethane	*104*		*81 - 121*		*12/18/16 08:43*	*1*
Toluene-d8 (Surr)	*91*		*80 - 120*		*12/18/16 08:43*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335468/1002
Matrix: Water
Analysis Batch: 335468

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	68 - 130
1,1,2,2-Tetrachloroethane	50.0	57.1		ug/L		114	70 - 131
1,1,2-Trichloroethane	50.0	53.6		ug/L		107	70 - 130
1,1-Dichloroethane	50.0	53.0		ug/L		106	70 - 130
1,1-Dichloroethene	50.0	55.4		ug/L		111	63 - 134
1,2-Dichlorobenzene	50.0	53.8		ug/L		108	67 - 130
1,2-Dichloroethane	50.0	53.0		ug/L		106	69 - 130
1,2-Dichloropropane	50.0	51.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	50.0	54.0		ug/L		108	70 - 130
1,4-Dichlorobenzene	50.0	54.3		ug/L		109	70 - 130
2-Hexanone	200	227		ug/L		114	65 - 137
Acetone	200	227		ug/L		114	43 - 160
Benzene	50.0	53.0		ug/L		106	70 - 130
Bromoform	50.0	40.3		ug/L		81	57 - 140
Bromomethane	40.0	33.8		ug/L		85	10 - 160
Carbon disulfide	50.0	51.4		ug/L		103	61 - 137
Carbon tetrachloride	50.0	45.1		ug/L		90	61 - 137
Chlorobenzene	50.0	54.6		ug/L		109	70 - 130
Chlorodibromomethane	50.0	48.5		ug/L		97	67 - 135
Chloroethane	40.0	44.6		ug/L		111	55 - 141
Chloroform	50.0	52.7		ug/L		105	69 - 130
Chloromethane	40.0	38.6		ug/L		97	58 - 137
cis-1,2-Dichloroethene	50.0	50.1		ug/L		100	68 - 130
cis-1,3-Dichloropropene	50.0	52.5		ug/L		105	69 - 132
Dichlorobromomethane	50.0	51.1		ug/L		102	67 - 133
Ethylbenzene	50.0	53.2		ug/L		106	70 - 130
m-Xylene & p-Xylene	50.0	53.6		ug/L		107	70 - 130
2-Butanone (MEK)	200	223		ug/L		112	61 - 145
4-Methyl-2-pentanone (MIBK)	200	213		ug/L		107	69 - 138
Methylene Chloride	50.0	51.0		ug/L		102	66 - 135
o-Xylene	50.0	53.9		ug/L		108	70 - 130
Styrene	50.0	52.0		ug/L		104	70 - 130
Tetrachloroethene	50.0	53.7		ug/L		107	65 - 130
Toluene	50.0	53.6		ug/L		107	70 - 130
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	70 - 130
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	63 - 130
Trichloroethene	50.0	54.2		ug/L		108	70 - 130
Vinyl chloride	40.0	43.8		ug/L		110	59 - 136
Xylenes, Total	100	108		ug/L		108	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*100*		*78 - 118*
Dibromofluoromethane	*100*		*81 - 121*
Toluene-d8 (Surr)	*97*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-335357/1-A
Matrix: Water
Analysis Batch: 335575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Acenaphthylene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Acetophenone	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Anthracene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Atrazine	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Benzaldehyde	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Benzo[a]anthracene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Benzo[a]pyrene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Benzo[b]fluoranthene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Benzo[g,h,i]perylene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Benzo[k]fluoranthene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
1,1'-Biphenyl	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Bis(2-chloroethyl)ether	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
bis (2-chloroisopropyl) ether	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
4-Bromophenyl phenyl ether	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Butyl benzyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Caprolactam	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Carbazole	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
4-Chloroaniline	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
4-Chloro-3-methylphenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2-Chloronaphthalene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2-Chlorophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Chrysene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Dibenz(a,h)anthracene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Dibenzofuran	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
3,3'-Dichlorobenzidine	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2,4-Dichlorophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Diethyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2,4-Dimethylphenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Dimethyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Di-n-butyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2,4-Dinitrophenol	<30		30		ug/L		12/16/16 14:05	12/19/16 18:04	1
2,4-Dinitrotoluene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2,6-Dinitrotoluene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Di-n-octyl phthalate	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Fluoranthene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Fluorene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Hexachlorobenzene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Hexachlorobutadiene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Hexachlorocyclopentadiene	<20		20		ug/L		12/16/16 14:05	12/19/16 18:04	1
Hexachloroethane	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Isophorone	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2-Methylnaphthalene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-335357/1-A
Matrix: Water
Analysis Batch: 335575

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335357

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylphenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
3 & 4 Methylphenol	<20		20		ug/L		12/16/16 14:05	12/19/16 18:04	1
Naphthalene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
3-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
4-Nitroaniline	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Nitrobenzene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2-Nitrophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
4-Nitrophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
N-Nitrosodiphenylamine	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Pentachlorophenol	<20		20		ug/L		12/16/16 14:05	12/19/16 18:04	1
Phenanthrene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Phenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
Pyrene	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2,4,5-Trichlorophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1
2,4,6-Trichlorophenol	<10		10		ug/L		12/16/16 14:05	12/19/16 18:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*93*		*46 - 124*	*12/16/16 14:05*	*12/19/16 18:04*	*1*
2-Fluorophenol (Surr)	*75*		*13 - 113*	*12/16/16 14:05*	*12/19/16 18:04*	*1*
Nitrobenzene-d5 (Surr)	*95*		*36 - 126*	*12/16/16 14:05*	*12/19/16 18:04*	*1*
Phenol-d5 (Surr)	*86*		*17 - 127*	*12/16/16 14:05*	*12/19/16 18:04*	*1*
Terphenyl-d14 (Surr)	*97*		*44 - 149*	*12/16/16 14:05*	*12/19/16 18:04*	*1*
2,4,6-Tribromophenol (Surr)	*81*		*26 - 150*	*12/16/16 14:05*	*12/19/16 18:04*	*1*

Lab Sample ID: LCS 400-335357/2-A
Matrix: Water
Analysis Batch: 335575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	120	99.2		ug/L		83	60 - 130
Acenaphthylene	120	101		ug/L		84	60 - 130
Anthracene	120	101		ug/L		84	60 - 130
Benzo[a]anthracene	120	97.2		ug/L		81	60 - 130
Benzo[a]pyrene	120	92.4		ug/L		77	60 - 130
Benzo[b]fluoranthene	120	92.2		ug/L		77	60 - 133
Benzo[g,h,i]perylene	120	104		ug/L		86	10 - 150
Benzo[k]fluoranthene	120	89.5		ug/L		75	60 - 130
Bis(2-chloroethoxy)methane	120	85.7		ug/L		71	53 - 130
Bis(2-chloroethyl)ether	120	88.1		ug/L		73	55 - 130
bis (2-chloroisopropyl) ether	120	87.6		ug/L		73	39 - 136
Bis(2-ethylhexyl) phthalate	120	99.1		ug/L		83	62 - 139
4-Bromophenyl phenyl ether	120	101		ug/L		84	62 - 134
Butyl benzyl phthalate	120	96.7		ug/L		81	59 - 145
Carbazole	120	110		ug/L		91	10 - 150
4-Chloroaniline	120	69.2		ug/L		58	10 - 150
4-Chloro-3-methylphenol	120	96.7		ug/L		81	70 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335357/2-A
Matrix: Water
Analysis Batch: 335575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335357

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	120	96.6		ug/L		81	62 - 130
2-Chlorophenol	120	85.6		ug/L		71	60 - 130
4-Chlorophenyl phenyl ether	120	103		ug/L		86	67 - 130
Chrysene	120	100		ug/L		84	60 - 130
Dibenz(a,h)anthracene	120	109		ug/L		91	59 - 130
Dibenzofuran	120	99.7		ug/L		83	69 - 130
2,4-Dichlorophenol	120	91.8		ug/L		76	67 - 130
Diethyl phthalate	120	109		ug/L		91	70 - 133
2,4-Dimethylphenol	120	86.2		ug/L		72	52 - 132
Dimethyl phthalate	120	102		ug/L		85	69 - 130
Di-n-butyl phthalate	120	104		ug/L		87	68 - 132
4,6-Dinitro-2-methylphenol	240	247		ug/L		103	37 - 150
2,4-Dinitrophenol	400	417		ug/L		104	15 - 150
2,4-Dinitrotoluene	120	115		ug/L		96	66 - 140
2,6-Dinitrotoluene	120	116		ug/L		96	70 - 130
Di-n-octyl phthalate	120	116		ug/L		97	57 - 148
Fluoranthene	120	105		ug/L		88	60 - 132
Fluorene	120	99.5		ug/L		83	60 - 130
Hexachlorobenzene	120	104		ug/L		87	67 - 132
Hexachlorobutadiene	120	80.8		ug/L		67	34 - 150
Hexachlorocyclopentadiene	120	77.4		ug/L		65	1 - 150
Hexachloroethane	120	80.9		ug/L		67	34 - 133
Indeno[1,2,3-cd]pyrene	120	106		ug/L		88	57 - 130
Isophorone	120	90.5		ug/L		75	60 - 130
2-Methylnaphthalene	120	96.1		ug/L		80	49 - 140
2-Methylphenol	120	90.1		ug/L		75	62 - 130
3 & 4 Methylphenol	120	91.1		ug/L		76	62 - 130
Naphthalene	120	85.1		ug/L		71	60 - 130
2-Nitroaniline	120	126		ug/L		105	30 - 130
3-Nitroaniline	120	92.8		ug/L		77	10 - 150
4-Nitroaniline	120	104		ug/L		87	10 - 150
Nitrobenzene	120	86.1		ug/L		72	61 - 130
2-Nitrophenol	120	93.7		ug/L		78	62 - 130
4-Nitrophenol	240	205		ug/L		86	31 - 150
N-Nitrosodi-n-propylamine	120	92.4		ug/L		77	59 - 130
N-Nitrosodiphenylamine	119	96.1		ug/L		81	36 - 150
Pentachlorophenol	240	190		ug/L		79	46 - 136
Phenanthrene	120	99.1		ug/L		83	60 - 130
Phenol	120	85.9		ug/L		72	34 - 137
Pyrene	120	92.9		ug/L		77	60 - 138
2,4,5-Trichlorophenol	120	108		ug/L		90	67 - 130
2,4,6-Trichlorophenol	120	104		ug/L		86	67 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*92*		*46 - 124*
2-Fluorophenol (Surr)	*81*		*13 - 113*
Nitrobenzene-d5 (Surr)	*86*		*36 - 126*
Phenol-d5 (Surr)	*87*		*17 - 127*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335357/2-A
Matrix: Water
Analysis Batch: 335575

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335357

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Terphenyl-d14 (Surr)	*93*		*44 - 149*
2,4,6-Tribromophenol (Surr)	*111*		*26 - 150*

Lab Sample ID: LCSD 400-335357/3-A
Matrix: Water
Analysis Batch: 335575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335357

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			120	91.1		ug/L		76	60 - 130	9	30
Acenaphthylene			120	92.1		ug/L		77	60 - 130	9	30
Anthracene			120	93.7		ug/L		78	60 - 130	7	30
Benzo[a]anthracene			120	88.8		ug/L		74	60 - 130	9	30
Benzo[a]pyrene			120	86.0		ug/L		72	60 - 130	7	30
Benzo[b]fluoranthene			120	89.3		ug/L		74	60 - 133	3	30
Benzo[g,h,i]perylene			120	89.1		ug/L		74	10 - 150	15	30
Benzo[k]fluoranthene			120	82.9		ug/L		69	60 - 130	8	30
Bis(2-chloroethoxy)methane			120	78.7		ug/L		66	53 - 130	9	30
Bis(2-chloroethyl)ether			120	79.9		ug/L		67	55 - 130	10	30
bis (2-chloroisopropyl) ether			120	81.0		ug/L		67	39 - 136	8	30
Bis(2-ethylhexyl) phthalate			120	89.1		ug/L		74	62 - 139	11	30
4-Bromophenyl phenyl ether			120	92.3		ug/L		77	62 - 134	9	30
Butyl benzyl phthalate			120	87.7		ug/L		73	59 - 145	10	30
Carbazole			120	102		ug/L		85	10 - 150	7	30
4-Chloroaniline			120	62.5		ug/L		52	10 - 150	10	30
4-Chloro-3-methylphenol			120	90.7		ug/L		76	70 - 130	6	30
2-Chloronaphthalene			120	88.9		ug/L		74	62 - 130	8	30
2-Chlorophenol			120	79.6		ug/L		66	60 - 130	7	30
4-Chlorophenyl phenyl ether			120	95.6		ug/L		80	67 - 130	8	30
Chrysene			120	92.1		ug/L		77	60 - 130	9	30
Dibenz(a,h)anthracene			120	95.0		ug/L		79	59 - 130	14	30
Dibenzofuran			120	92.0		ug/L		77	69 - 130	8	30
2,4-Dichlorophenol			120	85.8		ug/L		72	67 - 130	7	30
Diethyl phthalate			120	100		ug/L		84	70 - 133	9	30
2,4-Dimethylphenol			120	79.7		ug/L		66	52 - 132	8	30
Dimethyl phthalate			120	93.9		ug/L		78	69 - 130	8	30
Di-n-butyl phthalate			120	95.2		ug/L		79	68 - 132	9	30
4,6-Dinitro-2-methylphenol			240	241		ug/L		100	37 - 150	2	30
2,4-Dinitrophenol			400	419		ug/L		105	15 - 150	1	30
2,4-Dinitrotoluene			120	109		ug/L		91	66 - 140	6	30
2,6-Dinitrotoluene			120	106		ug/L		89	70 - 130	8	30
Di-n-octyl phthalate			120	104		ug/L		87	57 - 148	11	30
Fluoranthene			120	98.2		ug/L		82	60 - 132	7	30
Fluorene			120	92.4		ug/L		77	60 - 130	7	30
Hexachlorobenzene			120	95.2		ug/L		79	67 - 132	9	30
Hexachlorobutadiene			120	77.2		ug/L		64	34 - 150	5	30
Hexachlorocyclopentadiene			120	69.4		ug/L		58	1 - 150	11	30
Hexachloroethane			120	80.1		ug/L		67	34 - 133	1	30
Indeno[1,2,3-cd]pyrene			120	92.8		ug/L		77	57 - 130	13	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-335357/3-A
Matrix: Water
Analysis Batch: 335575

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335357

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isophorone			120	83.0		ug/L		69	60 - 130	9	30
2-Methylnaphthalene			120	90.6		ug/L		76	49 - 140	6	30
2-Methylphenol			120	83.9		ug/L		70	62 - 130	7	30
3 & 4 Methylphenol			120	84.7		ug/L		71	62 - 130	7	30
Naphthalene			120	79.3		ug/L		66	60 - 130	7	30
2-Nitroaniline			120	117		ug/L		98	30 - 130	7	30
3-Nitroaniline			120	84.1		ug/L		70	10 - 150	10	30
4-Nitroaniline			120	99.8		ug/L		83	10 - 150	4	30
Nitrobenzene			120	80.0		ug/L		67	61 - 130	7	30
2-Nitrophenol			120	88.3		ug/L		74	62 - 130	6	30
4-Nitrophenol			240	202		ug/L		84	31 - 150	2	30
N-Nitrosodi-n-propylamine			120	85.0		ug/L		71	59 - 130	8	30
N-Nitrosodiphenylamine			119	88.4		ug/L		74	36 - 150	8	30
Pentachlorophenol			240	180		ug/L		75	46 - 136	5	30
Phenanthrene			120	91.7		ug/L		76	60 - 130	8	30
Phenol			120	80.6		ug/L		67	34 - 137	6	30
Pyrene			120	84.8		ug/L		71	60 - 138	9	30
2,4,5-Trichlorophenol			120	99.9		ug/L		83	67 - 130	8	30
2,4,6-Trichlorophenol			120	96.4		ug/L		80	67 - 130	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*86*		*46 - 124*
2-Fluorophenol (Surr)	*80*		*13 - 113*
Nitrobenzene-d5 (Surr)	*83*		*36 - 126*
Phenol-d5 (Surr)	*84*		*17 - 127*
Terphenyl-d14 (Surr)	*88*		*44 - 149*
2,4,6-Tribromophenol (Surr)	*108*		*26 - 150*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 400-335149/1-A
Matrix: Water
Analysis Batch: 335321

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335149

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.50		0.50		ug/L		12/15/16 10:06	12/16/16 16:34	1
PCB-1221	<0.50		0.50		ug/L		12/15/16 10:06	12/16/16 16:34	1
PCB-1232	<0.50		0.50		ug/L		12/15/16 10:06	12/16/16 16:34	1
PCB-1242	<0.50		0.50		ug/L		12/15/16 10:06	12/16/16 16:34	1
PCB-1248	<0.50		0.50		ug/L		12/15/16 10:06	12/16/16 16:34	1
PCB-1254	<0.50		0.50		ug/L		12/15/16 10:06	12/16/16 16:34	1
PCB-1260	<0.50		0.50		ug/L		12/15/16 10:06	12/16/16 16:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*95*		*10 - 125*	*12/15/16 10:06*	*12/16/16 16:34*	*1*
Tetrachloro-m-xylene	*70*		*46 - 150*	*12/15/16 10:06*	*12/16/16 16:34*	*1*

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 400-335149/2-A
Matrix: Water
Analysis Batch: 335321

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335149

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	20.0	14.8		ug/L		74	54 - 126
PCB-1260	20.0	15.1		ug/L		76	56 - 139

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*85*		*10 - 125*
Tetrachloro-m-xylene	*74*		*46 - 150*

Lab Sample ID: LCSD 400-335149/3-A
Matrix: Water
Analysis Batch: 335321

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335149

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	20.0	15.5		ug/L		78	54 - 126	5	40
PCB-1260	20.0	17.2		ug/L		86	56 - 139	13	40

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*10 - 125*
Tetrachloro-m-xylene	*74*		*46 - 150*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-335938/1-A
Matrix: Water
Analysis Batch: 336250

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 335938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Arsenic	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 19:23	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Chromium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:23	1
Copper	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:23	1
Lead	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Nickel	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:23	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:23	1
Zinc	<0.020		0.020		mg/L		12/21/16 11:28	12/22/16 19:23	1

Lab Sample ID: LCS 400-335938/2-A
Matrix: Water
Analysis Batch: 336250

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 335938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	1.05		mg/L		105	80 - 120
Arsenic	1.00	1.05		mg/L		105	80 - 120
Beryllium	0.500	0.535		mg/L		107	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-335938/2-A
Matrix: Water
Analysis Batch: 336250

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 335938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cadmium	0.500	0.524		mg/L		105	80 - 120
Chromium	1.00	1.05		mg/L		105	80 - 120
Copper	1.00	1.05		mg/L		105	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Nickel	1.00	1.04		mg/L		104	80 - 120
Selenium	1.00	1.09		mg/L		109	80 - 120
Silver	0.500	0.527		mg/L		105	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Zinc	1.00	1.09		mg/L		109	80 - 120

Lab Sample ID: 400-131420-1 MS
Matrix: Water
Analysis Batch: 336250

Client Sample ID: TW-1
Prep Type: Total Recoverable
Prep Batch: 335938

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	<0.050		1.00	0.982		mg/L		98	75 - 125
Arsenic	0.0083		1.00	1.06		mg/L		105	75 - 125
Beryllium	<0.0030		0.500	0.535		mg/L		107	75 - 125
Cadmium	<0.0050		0.500	0.522		mg/L		104	75 - 125
Chromium	0.018		1.00	1.07		mg/L		105	75 - 125
Copper	0.023		1.00	1.07		mg/L		105	75 - 125
Lead	0.023		1.00	1.08		mg/L		106	75 - 125
Nickel	0.0079		1.00	1.06		mg/L		106	75 - 125
Selenium	<0.010		1.00	1.09		mg/L		109	75 - 125
Silver	<0.0050		0.500	0.526		mg/L		105	75 - 125
Thallium	<0.010		1.00	1.06		mg/L		106	75 - 125
Zinc	0.068		1.00	1.12		mg/L		105	75 - 125

Lab Sample ID: 400-131420-1 MSD
Matrix: Water
Analysis Batch: 336250

Client Sample ID: TW-1
Prep Type: Total Recoverable
Prep Batch: 335938

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	<0.050		1.00	0.988		mg/L		99	75 - 125	1	20
Arsenic	0.0083		1.00	1.07		mg/L		106	75 - 125	1	20
Beryllium	<0.0030		0.500	0.536		mg/L		107	75 - 125	0	20
Cadmium	<0.0050		0.500	0.525		mg/L		105	75 - 125	1	20
Chromium	0.018		1.00	1.07		mg/L		106	75 - 125	0	20
Copper	0.023		1.00	1.07		mg/L		105	75 - 125	0	20
Lead	0.023		1.00	1.08		mg/L		106	75 - 125	0	20
Nickel	0.0079		1.00	1.07		mg/L		106	75 - 125	1	20
Selenium	<0.010		1.00	1.10		mg/L		110	75 - 125	1	20
Silver	<0.0050		0.500	0.526		mg/L		105	75 - 125	0	20
Thallium	<0.010		1.00	1.07		mg/L		107	75 - 125	1	20
Zinc	0.068		1.00	1.13		mg/L		106	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-336493/14-A
Matrix: Water
Analysis Batch: 337052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/16 09:19	12/30/16 13:56	1

Lab Sample ID: LCS 400-336493/15-A
Matrix: Water
Analysis Batch: 337052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336493

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00101	0.00102		mg/L		101	80 - 120		

Lab Sample ID: 400-131420-5 MS
Matrix: Water
Analysis Batch: 337052

Client Sample ID: TW-5
Prep Type: Total/NA
Prep Batch: 336493

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	<0.00020		0.00201	0.00202		mg/L		101	80 - 120		

Lab Sample ID: 400-131420-5 MSD
Matrix: Water
Analysis Batch: 337052

Client Sample ID: TW-5
Prep Type: Total/NA
Prep Batch: 336493

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	<0.00020		0.00201	0.00199		mg/L		99	80 - 120	2	20

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-1

Lab Sample ID: 400-131420-1

Date Collected: 12/13/16 11:35

Matrix: Water

Date Received: 12/13/16 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335468	12/18/16 13:12	WPD	TAL PEN
Total/NA	Prep	3520C			220 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335575	12/19/16 20:49	MAM	TAL PEN
Total/NA	Prep	3520C			260 mL	5 mL	335149	12/15/16 10:06	KLR	TAL PEN
Total/NA	Analysis	8082A		1			335321	12/16/16 17:53	AM	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:43	RJB	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:20	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 13:59	JAP	TAL PEN

Client Sample ID: TW-2

Lab Sample ID: 400-131420-2

Date Collected: 12/12/16 16:05

Matrix: Water

Date Received: 12/13/16 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335468	12/18/16 13:38	WPD	TAL PEN
Total/NA	Prep	3520C			250 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335575	12/19/16 21:22	MAM	TAL PEN
Total/NA	Prep	3520C			245 mL	5 mL	335149	12/15/16 10:06	KLR	TAL PEN
Total/NA	Analysis	8082A		1			335321	12/16/16 18:19	AM	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:55	RJB	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:20	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 14:09	JAP	TAL PEN

Client Sample ID: TW-3

Lab Sample ID: 400-131420-3

Date Collected: 12/12/16 17:38

Matrix: Water

Date Received: 12/13/16 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335468	12/18/16 14:02	WPD	TAL PEN
Total/NA	Prep	3520C			270 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335575	12/19/16 21:55	MAM	TAL PEN
Total/NA	Prep	3520C			270 mL	5 mL	335149	12/15/16 10:06	KLR	TAL PEN
Total/NA	Analysis	8082A		1			335321	12/16/16 18:45	AM	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:58	RJB	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:20	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 14:10	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-4

Date Collected: 12/12/16 14:12
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335468	12/18/16 14:28	WPD	TAL PEN
Total/NA	Prep	3520C			230 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335575	12/19/16 22:28	MAM	TAL PEN
Total/NA	Prep	3520C			255 mL	5 mL	335149	12/15/16 10:06	KLR	TAL PEN
Total/NA	Analysis	8082A		1			335321	12/16/16 19:12	AM	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 20:02	RJB	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:20	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 14:12	JAP	TAL PEN

Client Sample ID: TW-5

Date Collected: 12/12/16 11:45
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335468	12/18/16 14:53	WPD	TAL PEN
Total/NA	Prep	3520C			245 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335686	12/20/16 16:49	MAM	TAL PEN
Total/NA	Prep	3520C			245 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335973	12/21/16 20:43	MAM	TAL PEN
Total/NA	Prep	3520C			245 mL	5 mL	335149	12/15/16 10:06	KLR	TAL PEN
Total/NA	Analysis	8082A		1			335321	12/16/16 19:38	AM	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 20:05	RJB	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:20	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 14:13	JAP	TAL PEN

Client Sample ID: TW-6

Date Collected: 12/13/16 12:05
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335468	12/18/16 15:17	WPD	TAL PEN
Total/NA	Prep	3520C			215 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		2			335686	12/20/16 17:22	MAM	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 20:08	RJB	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:20	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 14:18	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335149/1-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			250 mL	5 mL	335149	12/15/16 10:06	KLR	TAL PEN
Total/NA	Analysis	8082A		1			335321	12/16/16 16:34	AM	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335357/1-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			250 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335575	12/19/16 18:04	MAM	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335468/4

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335468	12/18/16 08:43	WPD	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-335938/1-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:23	RJB	TAL PEN

Client Sample ID: Method Blank — Lab Sample ID: MB 400-336493/14-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 13:56	JAP	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-335149/2-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			250 mL	5 mL	335149	12/15/16 10:06	KLR	TAL PEN
Total/NA	Analysis	8082A		1			335321	12/16/16 17:00	AM	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-335357/2-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			250 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335575	12/19/16 18:37	MAM	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-335468/1002

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	335468	12/18/16 07:07	WPD	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-335938/2-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:27	RJB	TAL PEN

Client Sample ID: Lab Control Sample — Lab Sample ID: LCS 400-336493/15-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 13:57	JAP	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-335149/3-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			250 mL	5 mL	335149	12/15/16 10:06	KLR	TAL PEN
Total/NA	Analysis	8082A		1			335321	12/16/16 17:27	AM	TAL PEN

Client Sample ID: Lab Control Sample Dup — Lab Sample ID: LCSD 400-335357/3-A

Date Collected: N/A — **Matrix: Water**
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			250 mL	1 mL	335357	12/16/16 14:05	KLR	TAL PEN
Total/NA	Analysis	8270D		1			335575	12/19/16 19:10	MAM	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: C.E. LLC

TestAmerica Job ID: 400-131420-1

Client Sample ID: TW-1
Date Collected: 12/13/16 11:35
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-1 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:49	RJB	TAL PEN

Client Sample ID: TW-1
Date Collected: 12/13/16 11:35
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-1 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:52	RJB	TAL PEN

Client Sample ID: TW-5
Date Collected: 12/12/16 11:45
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-5 MS
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:20	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 14:15	JAP	TAL PEN

Client Sample ID: TW-5
Date Collected: 12/12/16 11:45
Date Received: 12/13/16 13:10

Lab Sample ID: 400-131420-5 MSD
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:20	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 14:17	JAP	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRO

Client Information	Sampler: Ed Kuyz	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-61170-25835.2
Client Contact: Ms. Melissa Montgomery	Phone:	E-Mail: mike.nance@testamericainc.com		Page: Page 2 of 2
Company: Thompson Engineering Inc				Job #: 400-131420 COC
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested:			
City: Mobile	TAT Requested (days):			
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			
Email: mmontgomery@thompsonengineering.com	WO #:			
Project Name: C.C. LLC.	Project #: 40003023			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Target Compound List	8082A, 8270D	6010B, 7471B	8260B - (MOD) tcl list of compounds	6010B, 7470A	8270D - TCL Semivolatiles List from CLPOLM4.2	8082A - TCL PCBs by 8082A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A	D	N	N		
TW-1	12/13/16	1135	G	Water			3	6	–	–	1	–	–		
TW-2	12/12/16	1605	G	Water			3	6	–	–	1	–	–		
TW-3	12/12/16	1738	G	Water			3	6	–	–	1	–	–		
TW-4	12/12/16	1412	G	Water			3	6	–	–	1	–	–		
TW-5	12/12/16	1445	G	Water			3	6	–	–	1	–	–		
TW-6	12/13/16	1205	G	Water			3	4			1				
			G	Water											
				Water											
				Water											
				Water											
				Water											

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Ed Kuyz	12/13/16 1310	Thompson		12-13-16 1310	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 400 - 131420 3.7°C 55%

SHELL STATION PROPERTY

1.1 Project Background

The site is located at 559 Virginia Street in Mobile, Alabama (Figures 1 and 2, Appendix A). The property is currently an active fuel service station. There are four USTs and four service pumps located on-site. The northern portion of the site is located within the proposed right of way of the newly designed interchange at Virginia Street which is associated with the proposed I-10 Mobile River bridge. Surface elevations at the project site are approximately 15 to 17 feet (NGVD).

1.2 Summary of Field Activities

Sampling activities for the investigation at this site were performed on December 14, 2016. Four borings (B-1/TW-1 and SB-1 through SB-3) were advanced on-site via Geoprobe (direct-push) technology within the projected right of way for the proposed bridge (Figure 3, Appendix A). The borings were advanced via a four-foot stainless steel probe with a factory supplied, pre-cleaned, Polyethylene Terephthalet (PETG) clear sample liner inserted into the probe for retrieval of soil samples. Continuous samples were collected from ground surface to approximately 12 feet below ground surface (bgs) by advancing the direct push probe every four feet. Upon opening the sleeve, the soil was described with an entry into a bound field log book. One composite soil sample was collected from the ground surface to the top of the water table. The composited samples were then transferred to a series of pre-cleaned sample containers provided by the analytical laboratory and each container was filled as completely as practical to minimize headspace. The soil samples were composited using stainless steel equipment.

After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the chain-of-custody (COC). The containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Soil samples were submitted to the laboratory for the following chemical analyses: volatile organic compounds (VOCs, EPA Method 8260B), semi-volatile organic compounds (SVOCs, EPA Method 8270D), and metals (EPA Methods 6010B/7471B).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas by washing with Liquinox ® detergent, rinsing with deionized water, rinsing with pesticide grade isopropyl alcohol, and final rinsing with deionized water followed by a drying period.

Following soil sampling procedures, boring B-1 was advanced an additional five feet into the water table and temporary 1-inch diameter piezometer (TW-1) was installed with five feet of 1-inch diameter schedule 40 PVC with 0.010 inch slotted screen. Following temporary well installation, groundwater samples were collected with the use of a peristaltic pump after first developing and purging the well. During well development and purging, pH, temperature, specific conductivity, dissolved oxygen, and turbidity were collected after each well volume

and measurements were recorded in a bound field log book. The well was purged until the field parameters stabilized. The final well volume field measurements are included in Appendix B.

Groundwater samples were collected in appropriate laboratory supplied containers. After sample collection, labels were prepared and fixed to the containers with sample name, date and time collected, and laboratory analysis, the sampling information was entered on the COC and the containers were placed on ice in a cooler and delivered to TestAmerica Laboratory in Mobile, Alabama. Groundwater samples were submitted to the laboratory to be analyzed for the following chemical analyses: VOCs (EPA Method 8260B), SVOCs (EPA Method 8270D), and metals (EPA Methods 6010B/7470A).

Upon completion of groundwater sampling procedures, the temporary well was removed from the subsurface and the boreholes were backfilled with bentonite pellets and native soil.

1.3 Results

Soils encountered during the direct push borings consisted of sandy clay and sands. Soil boring logs and temporary well construction details are presented in Appendix C.

A copy of the laboratory analytical report for the chemical analyses of VOCs, SVOCs, and metals for soil and groundwater is included in Appendix D (Log No.: 400-131514-1). M-xylene & p-xylene were detected in soil samples collected from boring B-1 and soil borings SB-1 and SB-2 at levels above the residential ADEM Preliminary Screening Value (PSV) and U.S. EPA Regional Screening Level (RSL). Ethylbenzene was reported in boring B-1 and soil borings SB-1 and SB-2 with concentrations above the residential and industrial EPA RSLs but below the ADEM PSVs. Ethylbenzene and m-xylene & p-xylene were also detected in soil boring SB-3 but at levels below the both PSVs and RSLs. O-xylene was detected in all four soil samples collected and only the sample from soil boring SB-2 exceeded the EPA RSLs. There are no established ADEM PSVs for o-xylene. Toluene was reported in all four soil samples collected but at levels below the PSVs and RSLs. Total xylenes were reported above the ADEM residential PSV in all four soil samples collected. The reported concentration from soil boring SB-3 also exceeded the EPA residential RSL and the concentration from soil boring SB-2 exceeded both EPA RSLs. Acetophenone was reported in soil borings SB-1, SB-2, and SB-3 but at levels below the PSVs and RSLs. Benzaldehyde was reported in soil borings SB-1 and SB-3 but at levels below the PSVs and RSLs. 2-methylnaphthalene was reported in all four soil samples collected but at levels below the PSVs and RSLs. Naphthalene was also reported in all four soil samples collected and the concentrations detected in boring B-1 and soil boring SB-2 exceeded the ADEM and EPA residential screening values. Phenanthrene and 2-methylphenol were reported in soil boring SB-1 but at concentrations below their respective PSVs and RSLs. Copper, lead, nickel, and zinc were reported in all four soil samples collected but at concentrations below their respective PSVs and RSLs. Chromium was also reported in all four soil samples but at concentrations below its PSVs. There are no established EPA RSLs for chromium. Arsenic was also reported in all four soil samples collected with concentrations above the residential and commercial PSVs and residential RSL. The reported concentration of arsenic in boring

B-1 also exceeded the industrial RSL. Beryllium was reported in boring B-1 but at a concentration below the PSVs and RSLs. The soil analytical results compared to the ADEM PSVs and EPA RSLs are provided in Table 1.

The groundwater analytical results reported benzene, o-xylene, 2-methylnaphthalene, naphthalene, and arsenic above the ADEM PSV and the EPA Maximum Contaminant Level (MCL) or RSL in temporary well TW-1. 1-methylnaphthalene was reported above the EPA RSL. There is no established ADEM PSV for 1-methylnaphthalene in groundwater. Ethylbenzene, m-xylene & p-xylene, toluene, and total xylenes were also reported in temporary well TW-1 but at concentrations below their regulatory screening values. The groundwater analytical results compared to the ADEM PSVs and EPA RSLs or MCLs (if available) are provided in Table 2.

1.4 Conclusions

- Detectable concentrations of toluene, acetophenone, benzaldehyde, 2-methylnaphthalene, phenanthrene, 2-methylphenol, beryllium, chromium, copper, lead, nickel, and zinc were reported in one or more soil samples collected but at levels below ADEM and EPA regulatory screening values.

- Ethylbenzene concentrations exceeded the EPA residential and industrial RSLs in boring B-1 and soil boring SB-2 and the EPA residential RSL only in soil boring SB-1. m-xylene & p-xylene exceeded the ADEM and EPA residential screening criteria in boring B-1 and soil borings SB-1 and SB-2. o-xylene exceeded the EPA residential RSL in soil boring SB-2. Total xylenes exceeded the EPA industrial RSL in soil boring SB-2, the EPA and ADEM residential screening values in boring B-1 and soil boring SB-1 and only the ADEM residential PSV in soil boring SB-3.

- Naphthalene was reported in all four soil samples collected and was detected above the ADEM and EPA residential regulatory screening values in boring B-1 and above only the EPA residential PSV in soil boring SB-2.

- The detectable concentration of arsenic in boring B-1 (3.4 mg/kg) is above the residential and commercial/industrial ADEM and EPA regulatory screening values. The detectable concentrations of arsenic in soil borings SB-1 (2.6 mg/kg), SB-2 (3.0 mg/kg), and SB-3 (1.7 mg/kg) are above the residential EPA and the residential and commercial ADEM regulatory screening values. The United States Geological Survey (USGS) has reported an average concentration of arsenic for the conterminous United States as 7.2 mg/kg. The USGS National Geochemical Survey also provides information on the distribution of various metals through the United States. For Mobile County, Alabama the average arsenic concentration is reported as ranging from 0.828 to 9.055 mg/kg, with an average of 2.645 mg/kg. It has been Thompson's experience that arsenic values in the 5 to 15 mg/kg range are not uncommon for soils and sediments of the region.

- Groundwater was encountered at between 10.5 and 12 feet. Detectable concentrations of ethylbenzene, m-xylene & p-xylene, toluene, and total xylenes were reported in the groundwater sample collected but at levels below their respective ADEM and EPA regulatory screening values.

- Detectable concentrations of acetone, o-xylene, 1-methylnaphthalene, naphthalene, 2-methylnaphthalene, and arsenic were reported above their respective ADEM and EPA regulatory screening values.

1.5 Recommendations

Based on review of the analytical results of the soil samples collected on December 14, 2016, ethylbenzene, total xylenes, and arsenic in soil have detectable concentrations above ADEM and/or EPA commercial/industrial regulatory screening values. The detected arsenic values in soil are within the range historically reported in Mobile County, Alabama; however, the presence of ethylbenzene and total xylenes indicates on-site contamination is present. Groundwater concentrations of benzene, o-xylene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, and arsenic were detected above EPA and/or ADEM regulatory screening values. Based on the current design, ALDOT is acquiring additional right of way at this site and is not proposing to perform any additional paving or construction within the areas of concern. If construction activities are performed in the future, Thompson Engineering recommends limited contact with site soils, dust suppression efforts to be made to protect personnel from dust inhalation and if groundwater is encountered it should not be used for potable purposes.

Table 1a
Soil Analytical Results
Volatile Organic Compounds
Shell Station Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID			
							B-1 0'-11'	SB-1 0'-11.5'	SB-2 0'-11'	SB-3 0'-10'
Volatile Organics GC/MS										
1,1,1-Trichloroethane	71-55-6	mg/kg	810	3600	1200	1200	<5.3	<2.9	<11	<0.550
1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.6	2.7	0.41	0.93	<5.3	<2.9	<11	<0.550
1,1,2-Trichloroethane	79-00-5	mg/kg	0.15	0.63	0.73	1.6	<5.3	<2.9	<11	<0.550
1,1-Dichloroethane	75-34-3	mg/kg	3.6	16	51	170	<5.3	<2.9	<11	<0.550
1,1-Dichloroethene	75-35-4	mg/kg	23	100	12	41	<5.3	<2.9	<11	<0.550
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<5.3	<2.9	<11	<0.550
1,2-Dichloroethane	107-06-2	mg/kg	0.46	2	0.28	0.6	<5.3	<2.9	<11	<0.550
1,2-Dichloropropane	78-87-5	mg/kg	1	4.4	0.34	0.74	<5.3	<2.9	<11	<0.550
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<5.3	<2.9	<11	<0.550
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<5.3	<2.9	<11	<0.550
2-Hexanone	591-78-6	mg/kg	20	130	None	None	<26	<14	<57	<2.8
Acetone	67-64-1	mg/kg	6100	67000	1400	5400	<26	<14	<57	<2.8
Benzene	71-43-2	mg/kg	1.2	5.1	0.64	1.4	<5.3	<2.9	<11	<0.550
Bromoform	75-25-2	mg/kg	19	86	62	220	<5.3	<2.9	<11	<0.550
Bromomethane	74-83-9	mg/kg	0.68	3	0.39	1.3	<5.3	<2.9	<11	<0.550
Carbon disulfide	75-15-0	mg/kg	77	350	36	720	<5.3	<2.9	<11	<0.550
Carbon tetrachloride	56-23-5	mg/kg	0.65	2.9	0.25	0.55	<5.3	<2.9	<11	<0.550
Chlorobenzene	108-90-7	mg/kg	28	130	15	53	<5.3	<2.9	<11	<0.550
Chlorodibromomethane	124-48-1	mg/kg	8.3	39	1.1	2.6	<5.3	<2.9	<11	<0.550
Chloroethane	75-00-3	mg/kg	1400	5700	3.0	6.5	<5.3	<2.9	<11	<0.550
Chloroform	67-66-3	mg/kg	0.32	1.4	0.22	0.47	<5.3	<2.9	<11	<0.550
Chloromethane	74-87-3	mg/kg	11	46	47	160	<5.3	<2.9	<11	<0.550
cis-1,2-Dichloroethene	156-59-2	mg/kg	16	230	4.3	15	<5.3	<2.9	<11	<0.550
cis-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<5.3	<2.9	<11	<0.550
Dichlorobromomethane	75-27-4	mg/kg	0.29	1.3	None	None	<5.3	<2.9	<11	<0.550
Ethylbenzene	100-41-4	mg/kg	5.8	25	400	400	**30**	**24**	**56**	5.6
m-Xylene & p-Xylene	1330-20-7	mg/kg	58	250	27	420	**110**	**110**	**230**	24
2-Butanone (MEK)	78-93-3	mg/kg	2700	19000	2200	11000	<26	<14	<57	<2.8
4-Methyl-2-pentanone (MIBK)	108-10-1	mg/kg	3300	140000	530	4700	<26	<14	<57	<2.8
Methylene Chloride	75-09-2	mg/kg	35	320	9.1	21	<16	<8.6	<34	<1.7
o-Xylene	95-47-6	mg/kg	65	280	None	None	44	40	**90**	9.4
Styrene	100-42-5	mg/kg	600	3500	1700	1700	<5.3	<2.9	<11	<0.550
Tetrachloroethene	127-18-4	mg/kg	8.1	39	0.48	1.3	<5.3	<2.9	<11	<0.550
Toluene	108-88-3	mg/kg	490	4700	520	520	28	45	130	8.0
trans-1,2-Dichloroethene	156-60-5	mg/kg	160	230	6.9	23	<5.3	<2.9	<11	<0.550
trans-1,3-Dichloropropene	542-75-6	mg/kg	1.8	8.2	0.78	1.8	<5.3	<2.9	<11	<0.550
Trichloroethene	79-01-6	mg/kg	0.91	6.4	0.053	0.11	<5.3	<2.9	<11	<0.550
Vinyl Chloride	75-01-4	mg/kg	0.41	1.9	0.079	0.75	<5.3	<2.9	<11	<0.550
Xylenes, Total	1330-20-7	mg/kg	58	250	27	420	**160**	**150**	**320**	**33**

The data presented is a summary of the results of samples collected on December 14, 2016. See Appendix D for complete analytical report.

(1) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008

mg/kg indicates milligrams per kilogram.

Table 1b
Soil Analytical Results
Semi-Volatile Organic Compounds
Shell Station Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[(1)]	EPA Industrial[(2)]	ADEM Residential[(3)]	ADEM Commercial[(4)]	Sample Location ID			
							B-1 0'-11'	SB-1 0'-11.5'	SB-2 0'-11'	SB-3 0'-10'
Semivolatile Organics										
Acenapthene	83-32-9	mg/kg	360	4500	370	2900	<0.350	<0.380	<0.370	<0.370
Acenapthylene	208-96-8	mg/kg	None	None	None	None	<0.350	<0.380	<0.370	<0.370
Anthracene	120-12-7	mg/kg	1800	23000	2200	100000	<0.350	<0.380	<0.370	<0.370
Benzo[a]anthracene	56-55-3	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.380	<0.370	<0.370
Benzo[a]pyrene	50-32-8	mg/kg	0.016	0.29	0.062	0.21	<0.350	<0.380	<0.370	<0.370
Benzo[b]fluoroanthene	205-99-2	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.380	<0.370	<0.370
Benzo[k]fluoroanthene	207-08-9	mg/kg	1.6	29	6.2	21	<0.350	<0.380	<0.370	<0.370
Chrysene	218-01-9	mg/kg	16	290	62	210	<0.350	<0.380	<0.370	<0.370
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.016	0.29	0.062	0.21	<0.350	<0.380	<0.370	<0.370
Fluoroanthene	206-44-0	mg/kg	240	3000	230	2200	<0.350	<0.380	<0.370	<0.370
Fluorene	86-73-7	mg/kg	240	3000	270	2600	<0.350	<0.380	<0.370	<0.370
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.16	2.9	0.62	2.1	<0.350	<0.380	<0.370	<0.370
Atrazine	1912-24-9	mg/kg	2.4	10	2.2	7.8	<0.350	<0.380	<0.370	<0.370
Acetophenone	98-86-2	mg/kg	780	12000	None	None	<0.350	1.2	3.5	1.2
Benzaldehyde	100-52-7	mg/kg	170	820	None	None	<0.350	1.6	<0.370	0.79
2-Methylnaphthalene	91-57-6	mg/kg	24	300	None	None	11	1.6	4.9	2.5
Naphthalene	91-20-3	mg/kg	3.8	17	5.6	19	**11**	1.8	**4.1**	1.6
Phenanthrene	85-01-8	mg/kg	None	None	202	3060	<0.350	0.44	<0.370	<0.370
Pyrene	129-00-0	mg/kg	180	2300	230	2900	<0.350	<0.380	<0.370	<0.370
Bis(2-chloroethoxy) methane	111-91-1	mg/kg	19	250	None	None	<0.350	<0.380	<0.370	<0.370
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	1.0	0.2	0.58	<0.350	<0.380	<0.370	<0.370
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	160	35	120	<0.350	<0.380	<0.370	<0.370
Hexachlorobenzene	118-74-1	mg/kg	0.21	0.96	0.3	1.1	<0.350	<0.380	<0.370	<0.370
Hexachlorobutadiene	87-68-3	mg/kg	1.2	5.3	6.2	22	<0.350	<0.380	<0.370	<0.370
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	0.75	37	370	<0.350	<0.380	<0.370	<0.370
Hexachloroethane	67-72-1	mg/kg	1.8	8.0	35	120	<0.350	<0.380	<0.370	<0.370
Isophorone	78-59-1	mg/kg	570	2400	510	510	<0.350	<0.380	<0.370	<0.370
Phenol	108-95-2	mg/kg	1900	25000	1800	100000	<0.350	<0.380	<0.370	<0.370
4-Bromophenyl ether	101-55-3	mg/kg	None	None	None	None	<0.350	<0.380	<0.370	<0.370
Butylbenzylphthalate	85-68-7	mg/kg	290	1200	1200	100000	<0.350	<0.380	<0.370	<0.370
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	8200	None	None	<0.350	<0.380	<0.370	<0.370
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	None	None	None	None	<0.350	<0.380	<0.370	<0.370
4-Chloroaniline	106-47-8	mg/kg	2.7	11	2.4	250	<0.350	<0.380	<0.370	<0.370
4-Nitroaniline	100-01-6	mg/kg	25	110	None	None	<0.350	<0.380	<0.370	<0.370
4-Nitrophenol	100-02-7	mg/kg	None	None	None	None	<0.350	<0.380	<0.370	<0.370
2-Chlorophenol	95-57-8	mg/kg	39	580	6.3	24	<0.350	<0.380	<0.370	<0.370
2-Methylphenol	95-48-7	mg/kg	320	4100	310	3100	<0.350	0.43	<0.370	<0.370
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	5.1	1.1	3.8	<0.350	<0.380	<0.370	<0.370
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	6.6	None	None	<0.350	<0.380	<0.370	<0.370
1,2,4-Trichlorobenzene	120-82-1	mg/kg	5.8	26	6.2	22	<0.350	<0.380	<0.370	<0.370
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	82	0.61	6.2	<0.350	<0.380	<0.370	<0.370
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	0.33	0.069	0.25	<0.350	<0.380	<0.370	<0.370
N-Nitrosodimethylamine	62-75-9	mg/kg	0.002	0.034	0.0095	0.034	<0.350	<0.380	<0.370	<0.370
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	470	99	350	<0.350	<0.380	<0.370	<0.370
Nitrobenzene	98-95-3	mg/kg	5.1	220	2	10	<0.350	<0.380	<0.370	<0.370
Pentachlorophenol	87-86-5	mg/kg	1.0	4.0	3.0	9.0	<0.710	<0.750	<0.750	<0.750
2-Nitroaniline	88-74-4	mg/kg	63	800	18	180	<0.350	<0.380	<0.370	<0.370
2-Nitrophenol	88-75-5	mg/kg	None	None	None	None	<0.350	<0.380	<0.370	<0.370
3 & 4 Methylphenol	108-39-4	mg/kg	320	4100	310	3100	<0.710	<0.750	<0.750	<0.750
Di-n-butyl phthalate	84-74-2	mg/kg	630	8200	610	6200	<0.350	<0.380	<0.370	<0.370
2,4-Dichlorophenol	120-83-2	mg/kg	19	250	18	180	<0.350	<0.380	<0.370	<0.370
2,4-Dimethylphenol	105-67-9	mg/kg	130	1600	120	1200	<0.350	<0.380	<0.370	<0.370
2,4-Dinitrophenol	51-28-5	mg/kg	13	160	12	120	<1.1	<1.1	<1.1	<1.1
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	7.4	12	120	<0.350	<0.380	<0.370	<0.370
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	1.5	6.1	62	<0.350	<0.380	<0.370	<0.370
Dinoseb	88-85-7	mg/kg	6.3	820	None	None	<0.350	<0.380	<0.370	<0.370
Di-n-octyl phthalate	117-84-0	mg/kg	63	820	240	2500	<0.350	<0.380	<0.370	<0.370
Dimethyl phthalate	131-11-3	mg/kg	None	None	100000	100000	<0.350	<0.380	<0.370	<0.370
Diethyl phthalate	84-66-2	mg/kg	5100	66000	4900	100000	<0.350	<0.380	<0.370	<0.370
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	8200	610	6200	<0.350	<0.380	<0.370	<0.370
Carbazole	86-74-8	mg/kg	None	None	24	86	<0.350	<0.380	<0.370	<0.370
Dibenzofuran	132-64-9	mg/kg	7.3	100	15	160	<0.350	<0.380	<0.370	<0.370
1,2-Dichlorobenzene	95-50-1	mg/kg	180	930	600	600	<0.350	<0.380	<0.370	<0.370
1,3-Dichlorobenzene	541-73-1	mg/kg	None	None	53	600	<0.350	<0.380	<0.370	<0.370
1,4-Dichlorobenzene	106-46-7	mg/kg	2.6	11	3.4	7.9	<0.350	<0.380	<0.370	<0.370

The data presented is a summary of the results of samples collected on December 14, 2016. See Appendix D for complete analytical report.

(1) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008

mg/kg indicates milligrams per kilogram.

* = LCS or LCSD is outside acceptance limits.

Table 1c
Soil Analytical Results
Metals
Shell Station Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA Residential[1]	EPA Industrial[2]	ADEM Residential[3]	ADEM Commercial[4]	Sample Location ID			
							B-1 0'-11'	SB-1 0'-11.5'	SB-2 0'-11'	SB-3 0'-10'
Metals										
Antimony	7440-36-0	mg/kg	3.1	47	3.1	41	<5.1	<5.4	<5.4	<5.4
Arsenic	7440-38-2	mg/kg	0.68	3.0	0.4	1.6	**3.4**	**2.6**	**3.0**	**1.7**
Beryllium	7440-41-7	mg/kg	16	230	15	190	0.55	<0.32	<0.32	<0.32
Cadmium	7440-43-9	mg/kg	7.1	98	3.7	45	<0.51	<0.54	<0.54	<0.54
Chromium	7440-47-3	mg/kg	None	None	30	64	6.6	9.8	13	7.6
Copper	7440-50-8	mg/kg	310	4700	310	4100	3.0	3.1	3.7	2.6
Lead	7439-92-1	mg/kg	400	800	400	800	13	5.2	7.6	5.2
Mercury	7439-97-6	mg/kg	2.3	35	2.3	31	<0.017	<0.018	<0.017	<0.017
Nickel	7440-02-0	mg/kg	150	2200	160	2,000	2.6	1.8	2.8	2.2
Selenium	7782-49-2	mg/kg	39	580	39	510	<1.0	<1.1	<1.1	<1.1
Silver	7440-22-4	mg/kg	39	580	39	510	<0.51	<0.54	<0.54	<0.54
Thallium	7440-28-0	mg/kg	0.078	1.2	0.52	6.7	<1.0	<1.1	<1.1	<1.1
Zinc	7440-66-6	mg/kg	2300	35000	2,300	100000	4.5	5.1	11	7.3

The data presented is a summary of the results of samples collected on December 15, 2016. See Appendix D for complete analytical report.

(1) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Residential Soil

(2) U.S. EPA Region 9 Regional Screening Levels (RSLs) Summary Table May 2016, Industrial Soil

(3) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential Soil, April 2008

(4) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Commercial Soil, April 2008

mg/kg indicates milligrams per kilogram.

Bold and shaded values indicates concentration exceeds screening level.

Table 2a
Groundwater Analytical Results
Volatile Organic Compounds
Shell Station Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID
					TW-1
Volatile Organics GC/MS					
1,1,1-Trichloroethane	71-55-6	ug/L	200[3]	200	<2.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.076	0.055	<2.0
1,1,2-Trichloroethane	79-00-5	ug/L	5[3]	5	<10
1,1-Dichloroethane	75-34-3	ug/L	2.8	81	<2.0
1,1-Dichloroethene	75-35-4	ug/L	7[3]	7	<2.0
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<2.0
1,2-Dichloroethane	107-06-2	ug/L	5[3]	5	<2.0
1,2-Dichloropropane	78-87-5	ug/L	5[3]	5	<2.0
1,3-Dichlorobenzene	541-73-1	ug/L	None	18	<2.0
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<2.0
2-Hexanone	591-78-6	ug/L	3.8[3]	None	<50
Acetone	67-64-1	ug/L	1400	550	<50
Benzene	71-43-2	ug/L	5[3]	5	**70**
Bromoform	75-25-2	ug/L	80[3]	80	<10
Bromomethane	74-83-9	ug/L	0.75	0.87	<2.0
Carbon disulfide	75-15-0	ug/L	81	100	<2.0
Carbon tetrachloride	56-23-5	ug/L	5[3]	5	<2.0
Chlorobenzene	108-90-7	ug/L	100[3]	100	<2.0
Chlorodibromomethane	124-48-1	ug/L	80[3]	None	<2.0
Chloroethane	75-00-3	ug/L	2100	4.6	<2.0
Chloroform	67-66-3	ug/L	80[3]	80	<2.0
Chloromethane	74-87-3	ug/L	19	1.6	<2.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70[3]	70	<2.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<10
Dichlorobromomethane	75-27-4	ug/L	80[3]	None	<2.0
Ethylbenzene	100-41-4	ug/L	700[3]	700	120
m-Xylene & p-Xylene	1330-20-7	ug/L	10000[3]	10000	430
2-Butanone (MEK)	78-93-3	ug/L	560	700	<50
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	630	200	<50
Methylene chloride	75-09-2	ug/L	5.0[3]	5	<10
o-Xylene	95-47-6	ug/L	19	19	**170**
Styrene	100-42-5	ug/L	100[3]	100	<2.0
Tetrachloroethene	127-18-4	ug/L	5.0[3]	5	<2.0
Toluene	108-88-3	ug/L	1000[3]	1000	310
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100[3]	100	<2.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.47	0.4	<10
Trichloroethene (TCE)	79-01-6	ug/L	5.0[3]	5	<2.0
Vinyl chloride	75-01-4	ug/L	2.0[3]	2	<2.0
Xylenes (Total)	1330-20-7	ug/L	10000[3]	10000	600

The data presented is a summary of the results of samples collected on December 14, 2016. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, May 2016.
ug/L indicates micrograms per liter.

Table 2b
Groundwater Analytical Results
Semi-Volatile Organic Compounds
Shell Station Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Semivolatile Organics					
Acenaphthene	83-32-9	ug/L	53	37	<39
Acenaphthylene	208-96-8	ug/L	None	93.9	<39
Anthracene	120-12-7	ug/L	180	180	<39
Benzidine	92-87-5	ug/L	0.0001	0.00029	<98
Benzo(a)anthracene	56-55-3	ug/L	0.012	0.092	<39
Benzo(a)pyrene	50-32-8	ug/L	0.2[3]	0.2	<39
Benzo(b)fluoranthene	205-99-2	ug/L	0.034	0.092	<39
Benzo(g,h,i)perylene	191-24-2	ug/L	None	46.9	<39
Benzo(k)fluoranthene	207-08-9	ug/L	0.34	0.92	<39
bis(2-chloroethoxy)methane	111-91-1	ug/L	5.9	46	<39
bis(2-chloroethyl)ether	111-44-4	ug/L	0.014	None	<39
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0[3]	6.0	<39
4-Bromophenyl phenyl ether	101-55-3	ug/L	None	None	<39
Butyl benzyl phthalate	85-68-7	ug/L	16	730	<39
Carbazole	86-74-8	ug/L	None	3.4	<39
4-Chloroaniline	106-47-8	ug/L	0.37	15	<39
4-Chloro-3-methylphenol	59-50-7	ug/L	140	None	<39
2-Chlorophenol	95-57-8	ug/L	9.1	3	<39
4-Chlorophenyl phenyl ether	7005-72-3	ug/L	None	None	<39
Chrysene	218-01-9	ug/L	3.4	9.2	<39
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0034	0.0092	<39
Dibenzofuran	132-64-9	ug/L	0.79	1.2	<39
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.13	0.15	<39
1,2-Dichlorobenzene	95-50-1	ug/L	600[3]	600	<39
1,3-Dichlorobenzene	541-73-1	ug/L	None	None	<39
1,4-Dichlorobenzene	106-46-7	ug/L	75[3]	75	<39
2,4-Dichlorophenol	120-83-2	ug/L	4.6	11	<39
Diethyl phthalate	84-66-2	ug/L	1500	2900	<39
2,4-Dimethylphenol	105-67-9	ug/L	36	73	<39
Dimthyl phthalate	131-11-3	ug/L	None	36000	<39
Di-n-butyl phthalate	84-74-2	ug/L	90	360	<39
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	0.15	None	<39
2,4-Dinitrophenol	51-28-5	ug/L	3.9	7.3	<120
2,4-Dinitrotoluene	121-14-2	ug/L	0.24	7.3	<39
2,6-Dinitrotoluene	606-20-2	ug/L	0.049	3.6	<39
Di-n-octyl phthalate	117-84-0	ug/L	20	150	<39
Dinoseb	88-85-7	ug/L	7.0[3]	1500	<39
Fluoranthene	206-44-0	ug/L	80	150	<39
Fluorene	86-73-7	ug/L	29	24	<39
Hexachlorobenzene	118-74-1	ug/L	1.0[3]	1	<39
Hexachlorobutadiene	87-68-3	ug/L	0.14	0.86	<39
Hexachlorocyclopentadiene	77-47-4	ug/L	50[3]	50	<78
Hexachloroethane	67-72-1	ug/L	0.33	4.8	<39
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.034	0.092	<39
Isophorone	78-59-1	ug/L	78	71	<39
1-Methylnaphthalene	90-12-0	ug/L	1.1	None	**48**
2-Methylnaphthalene	91-57-6	ug/L	3.6	6.26	**70**
2-Methylphenol	95-48-7	ug/L	93	180	<39
3 & 4 Methylphenol	106-44-5	ug/L	190	18	<78
Naphthalene	91-20-3	ug/L	0.17	0.62	**230**
2-Nitroaniline	88-74-4	ug/L	19	11	<39
4-Nitroaniline	100-01-6	ug/L	3.8	None	<39
Nitrobenzene	98-95-3	ug/L	0.14	0.34	<39
2-Nitrophenol	88-75-5	ug/L	None	None	<39
4-Nitrophenol	100-02-7	ug/L	None	12.5	<39
N-Nitrosodimethylamine	62-75-9	ug/L	0.00011	0.0013	<39
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.011	0.0096	<39
N-Nitrosodiphenylamine	86-30-6	ug/L	12	14	<39
Pentachlorophenol	87-86-5	ug/L	1.0[3]	1.0	<78
Phenanthrene	85-01-8	ug/L	None	46.9	<39
Phenol	108-95-2	ug/L	580	1100	<39
Pyrene	129-00-0	ug/L	12	18	<39
1,2,4-Trichlorobenzene	120-82-1	ug/L	7.0[3]	70.0	<39
2,4,5-Trichlorophenol	95-95-4	ug/L	120	360	<39
2,4,6-Trichlorophenol	88-06-2	ug/L	1.2	0.36	<39

The data presented is a summary of the results of samples collected on December 14, 2016. See Appendix D for complete analytical report.
(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, January 2015.
(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, January 2015.
ug/L indicates micrograms per liter.

Table 2c
Groundwater Analytical Results
Metals
Shell Station Property
Preliminary Investigation
15-1101-0043

CONTAMINANT	CAS Number	Units	EPA[1] Tap Water	ADEM[2] Tap Water	Sample Location ID TW-1
Metals					
Antimony	7440-36-0	mg/L	0.006[3]	0.006	<0.050
Arsenic	7440-38-2	mg/L	0.01[3]	0.01	**0.024**
Beryllium	7440-41-7	mg/L	0.004[3]	0.004	<0.0030
Cadmium	7440-43-9	mg/L	0.005[3]	0.005	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.1[3]	0.10	<0.010
Copper	7440-50-8	mg/L	1.3[3]	1.30	<0.010
Lead	7439-92-1	mg/L	0.015[3]	0.015	<0.0050
Mercury	7487-94-7	mg/L	0.002[3]	0.002	<0.00020
Nickel	7440-02-0	mg/L	0.039	0.1	<0.0050
Selenium	7782-49-2	mg/L	0.005[3]	0.005	<0.010
Silver	7440-22-4	mg/L	0.0094	0.0018	<0.0050
Thallium	7440-28-0	mg/L	0.002[3]	0.002	<0.010
Zinc	7440-66-6	mg/L	0.6	1.1	<0.020

The data presented is a summary of the results of samples collected on December 14, 2016. See Appendix D for complete analytical report.

(1) EPA Regional Screening Levels (RSLs) for Tapwater/Groundwater, May 2016.

(2) ADEM Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.

(3) EPA Maximum Contaminant Levels (MCLs) for Tapwater/Groundwater, May 2016.

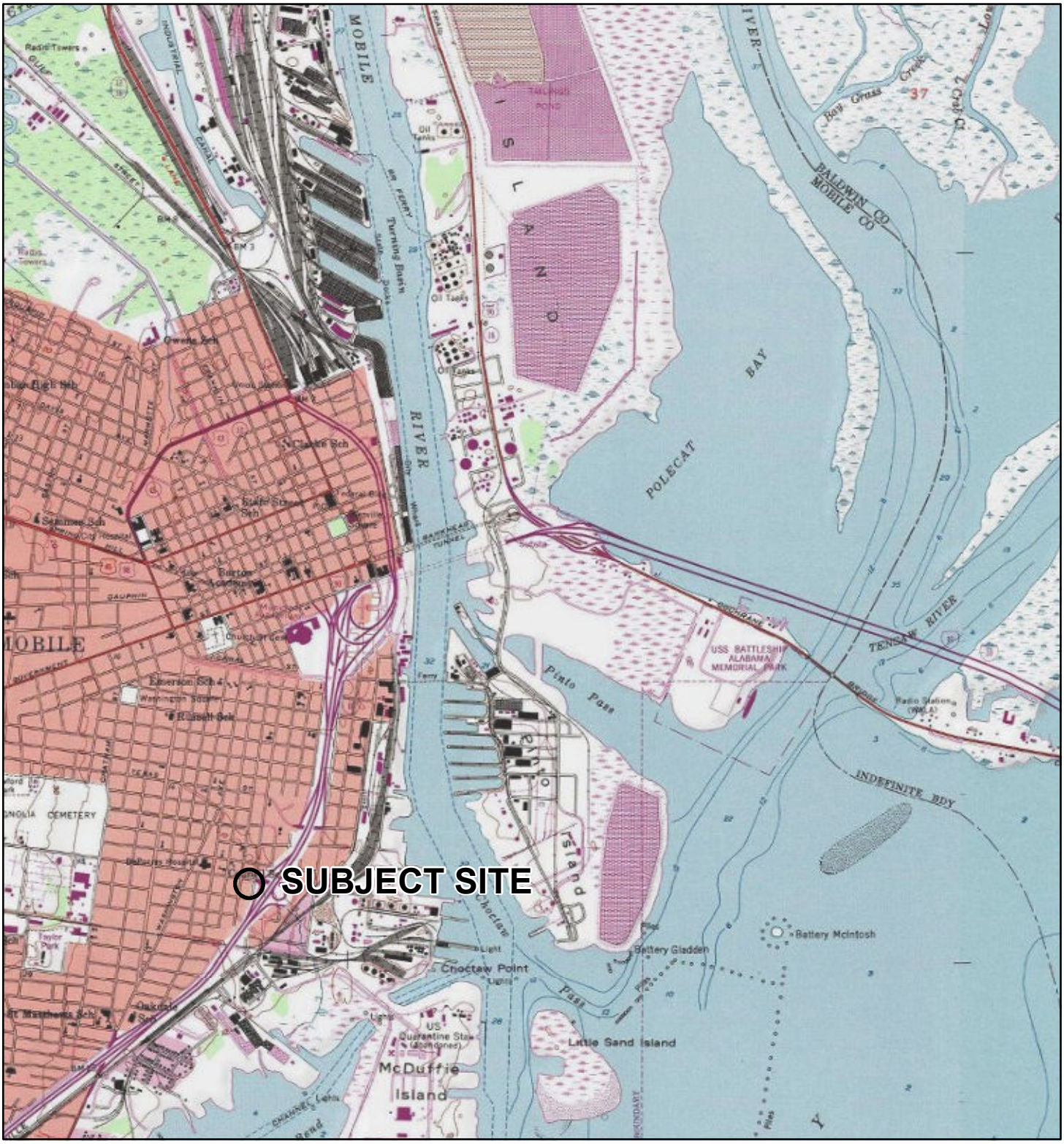
mg/L indicates milligrams per liter.

Bold and shaded values indicates concentration exceeds screening level.

APPENDIX A

SHELL STATION PROPERTY
FIGURE 1 SITE VICINITY MAP
FIGURE 2 AERIAL PHOTOGRAPH AND
FIGURE 3 BORING LOCATION PLAN

PROJECT NO.: 15-1101-0043



1:36,000

0 3,000 6,000 Feet

1 inch = 3,000 feet

N

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ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 1
SITE VICINITY MAP
SHELL STATION PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\PROP_OWNER_FIG1.mxd



LEGEND

Parcel Line

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1FT Resolution
Mobile County Revenue Commissioner's Parcel - May 2016
Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

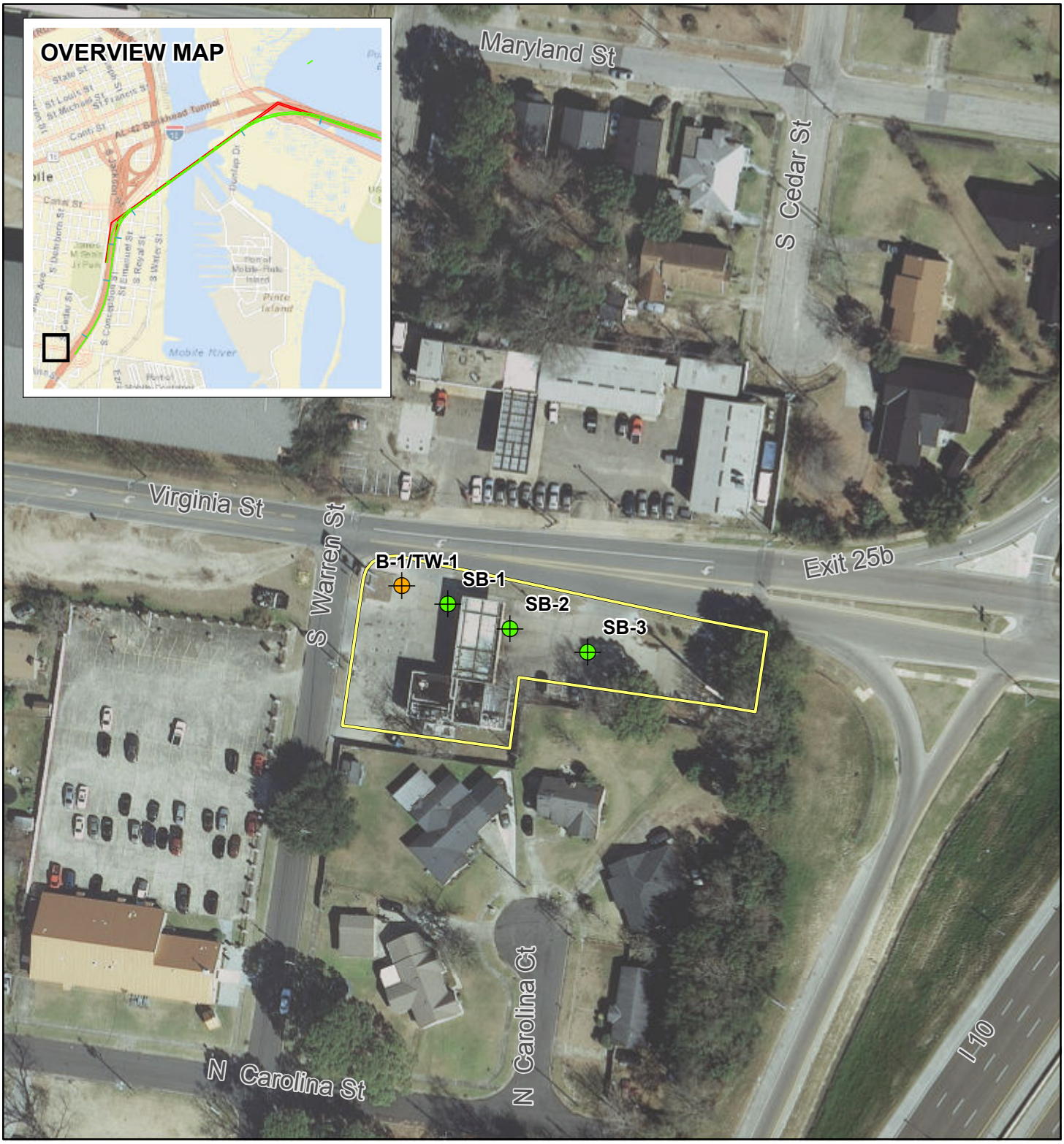
ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 2
AERIAL PHOTOGRAPH
SHELL STATION PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\1101\15-1101-0043 ALDOT - Mobile River Bridge - SOheam\GIS\MXD\SHELL_STATION_FIG2.mxd



LEGEND

- Soil Boring (SB)
- Boring /Temporary Well (B/TW)
- Parcel Line

1:1,200

0 100 200 Feet

1 inch = 100 feet

N

City of Mobile 2010 Imagery - 1FT Resolution
Mobile County Revenue Commissioner's Parcel - May 2016
Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community

ALABAMA DEPARTMENT OF TRANSPORTATION
ALDOT PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

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FIGURE 3
BORING LOCATION PLAN
SHELL STATION PROPERTY

PROJECT NO.:	DATE:
15-1101-0043	JANUARY 2017

P:\2015\15-1101-0043 ALDOT - Mobile River Bridge - SOhearn\GIS\MXD\SHELL_STATION_FIG3.mxd

APPENDIX B

SHELL STATION PROPERTY
GROUNDWATER FIELD PARAMETER DATA

PROJECT NO.: 15-1101-0043

Groundwater Field Parameter Data

Shell Station Property
Preliminary Investigation
15-1101-0043

Well I.D.	Total Depth (feet)	Depth to Water Level (feet)	Well Volume (gallon)	Volume Evacuated (gallon)	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	17.5	11.35	0.14	4	6.3	26.4	0.546	0.12	40.3

Notes:
1. Measurements presented are the final well volume.
2. Total depth and depth to water level are measured from top of well casing.
3. S.U. - Standard Units
4. oC - Degrees Celcius
5. uS - micro Siemens per Centimeter
6. mg/L-milligrams per liter
7. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

APPENDIX C

SHELL STATION PROPERTY
SOIL BORING LOGS AND
TEMPORARY WELL CONSTRUCTION DETAILS

PROJECT NO.: 15-1101-0043

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** December 14, 2016 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: B-1/TW-1 **LOCATION:** Shell Station Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake): Flush-threaded joints with bottom cap.		
		Brown to light brown fine SILTY SAND			
5					
		Brown SANDY CLAY			
10		Brown to light brown and tan CLAYEY SAND, moist			
		Light gray, tan, and white fine SAND, saturated			
15					
		B.T. @ 16 ft bgs			
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** 12/14/2016 **GR. WATER DEPTH:** 11.5 ft. bgs

BORING NO.: SB-1 **LOCATION:** Shell Station Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE			
		Brown and light brown fine SILTY SAND			
5		Brown SANDY CLAY			
		Brown CLAYEY SAND brown to reddish brown, moist			
10		Light gray, tan, and white fine SAND, saturated			
		B.T. @ 12 ft bgs			
15					
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** 12/14/2016 **GR. WATER DEPTH:** 11 ft. bgs

BORING NO.: SB-2 **LOCATION:** Shell Station Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE			
		Black and brown fine SILTY SAND			
5		Brown SANDY CLAY			
		Gray, reddish brown, and brown CLAYEY SAND			
10		moist			
		Brown, tan, and white fine SAND, saturated			
15					
		B.T. @ 16 ft bgs			
20					
25					
30					
35					

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AASHTO R18

TEMPORARY WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** N/A

PROJECT: I-10 Mobile River Bridge
ALDOT Project: DPI-0030(005)

JOB NO.: 15-1101-0043 **DATE DRILLED:** 12/14/2016 **GR. WATER DEPTH:** 10 ft. bgs

BORING NO.: SB-3 **LOCATION:** Shell Station Property **TYPE BORING:** Geoprobe

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE			
		Brown to light brown fine SILTY SAND			
5		Brown, light brown, and red CLAYEY SAND			
		reddish brown, moist			
10		Reddish brown fine SAND, saturated			
		gray and white, saturated			
15					
		B.T. @ 16 ft bgs			
20					
25					
30					
35					

APPENDIX D

SHELL STATION PROPERTY
LABORATORY ANALYTICAL DATA
WITH RELATED CHAIN-OF-CUSTODY

PROJECT NO.: 15-1101-0043

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Tel: (850)474-1001

TestAmerica Job ID: 400-131514-1
Client Project/Site: Shell Station

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Ms. Melissa Montgomery

Authorized for release by:
12/30/2016 4:46:29 PM

Mike Nance, Service Center Manager
(251)706-3210
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Thompson Engineering Inc
Project/Site: Shell Station

TestAmerica Job ID: 400-131514-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
*	ISTD response or retention time outside acceptable limits
E	Result exceeded calibration range.
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 400-131514-1

Laboratory: TestAmerica Pensacola

Narrative

Job Narrative
400-131514-1

Comments
No additional comments.

Receipt
The samples were received on 12/14/2016 3:15 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9º C.

GC/MS VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA
Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: SB-3 0'-10 (400-131514-4). These results have been reported and qualified.

Method(s) 8270D: The following sample was diluted to bring the concentration of target analytes within the calibration range: B-1 0'-11' (400-131514-1). Elevated reporting limits (RLs) are provided.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-336346 recovered outside acceptance criteria, low biased, for Nitrobenzene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: Surrogate recovery for the following sample was outside control limits: SB-2 0'-11' (400-131514-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-336262 recovered outside acceptance criteria, low biased, for Hexachlorocyclopentadiene. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported.

Method(s) 8270D: The surrogate recovery for the blank associated with preparation batch 400-335918 and analytical batch 400-336262 was outside the control limits.

Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows one of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: TW-1 (400-131514-5). These results have been reported and qualified.

Method(s) 8270D: The continuing calibration verification (CCV) associated with batch 400-336265 recovered above the upper control limit for Hexachlorocyclopentadiene and 2,4-Dinitrotoluene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: (MB 400-335631/20-A).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: B-1 0'-11'
Date Collected: 12/14/16 12:55
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-1
Matrix: Solid
Percent Solids: 92.2

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,1,2,2-Tetrachloroethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,1,2-Trichloroethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,1-Dichloroethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,1-Dichloroethene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,2-Dichlorobenzene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,2-Dichloroethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,2-Dichloropropane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,3-Dichlorobenzene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
1,4-Dichlorobenzene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
2-Hexanone	<26000		26000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Acetone	<26000		26000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Benzene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Bromoform	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Bromomethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Carbon disulfide	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Carbon tetrachloride	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Chlorobenzene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Chlorodibromomethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Chloroethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Chloroform	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Chloromethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
cis-1,2-Dichloroethene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
cis-1,3-Dichloropropene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Dichlorobromomethane	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Ethylbenzene	**30000**		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
m-Xylene & p-Xylene	**110000**		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
2-Butanone (MEK)	<26000		26000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
4-Methyl-2-pentanone (MIBK)	<26000		26000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Methylene Chloride	<16000		16000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
o-Xylene	**44000**		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Styrene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Tetrachloroethene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Toluene	**28000**		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
trans-1,2-Dichloroethene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
trans-1,3-Dichloropropene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Trichloroethene	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Vinyl chloride	<5300		5300		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000
Xylenes, Total	**160000**		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:38	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*97*		*72 - 122*	*12/17/16 18:30*	*12/21/16 14:38*	*1000*
Dibromofluoromethane	*97*		*79 - 123*	*12/17/16 18:30*	*12/21/16 14:38*	*1000*
Toluene-d8 (Surr)	*92*		*80 - 120*	*12/17/16 18:30*	*12/21/16 14:38*	*1000*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
4-Chloro-3-methylphenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2-Chlorophenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1

Client Sample ID: B-1 0'-11'
Date Collected: 12/14/16 12:55
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-1
Matrix: Solid
Percent Solids: 92.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2,4-Dimethylphenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
4,6-Dinitro-2-methylphenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/23/16 16:15	1
2,4-Dinitrophenol	<1100	F1	1100		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2-Methylphenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
3 & 4 Methylphenol	<710	F1	710		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2-Nitrophenol	<350		350		ug/Kg	☼	12/19/16 15:36	12/23/16 16:15	1
4-Nitrophenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Pentachlorophenol	<710	F1	710		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Phenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2,4,5-Trichlorophenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2,4,6-Trichlorophenol	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Acenaphthene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Acenaphthylene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Acetophenone	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/23/16 16:15	1
Anthracene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Benzaldehyde	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Benzo[a]anthracene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Benzo[a]pyrene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Benzo[b]fluoranthene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Benzo[k]fluoranthene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
4-Bromophenyl phenyl ether	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Butyl benzyl phthalate	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Caprolactam	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Carbazole	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
4-Chloroaniline	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Bis(2-chloroethoxy)methane	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Bis(2-chloroethyl)ether	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2-Chloronaphthalene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
4-Chlorophenyl phenyl ether	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Chrysene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Dibenz(a,h)anthracene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Dibenzofuran	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Di-n-butyl phthalate	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Di-n-octyl phthalate	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
3,3'-Dichlorobenzidine	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Diethyl phthalate	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Dimethyl phthalate	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2,4-Dinitrotoluene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2,6-Dinitrotoluene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
1,1'-Biphenyl	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Bis(2-ethylhexyl) phthalate	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Fluoranthene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Fluorene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Hexachlorobenzene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Hexachlorobutadiene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Hexachlorocyclopentadiene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Hexachloroethane	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Indeno[1,2,3-cd]pyrene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1

Client Sample ID: B-1 0'-11'
Date Collected: 12/14/16 12:55
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-1
Matrix: Solid
Percent Solids: 92.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Naphthalene	**11000**		710		ug/Kg	☼	12/19/16 15:36	12/23/16 16:49	2
2-Methylnaphthalene	**11000**		710		ug/Kg	☼	12/19/16 15:36	12/23/16 16:49	2
3-Nitroaniline	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
4-Nitroaniline	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Nitrobenzene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/23/16 16:15	1
N-Nitrosodiphenylamine	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
N-Nitrosodi-n-propylamine	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Phenanthrene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Pyrene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
bis (2-chloroisopropyl) ether	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
2-Nitroaniline	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1
Benzo[g,h,i]perylene	<350	F1	350		ug/Kg	☼	12/19/16 15:36	12/21/16 20:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*90*		*10 - 150*	*12/19/16 15:36*	*12/21/16 20:00*	*1*
2-Fluorobiphenyl	*79*		*27 - 127*	*12/19/16 15:36*	*12/21/16 20:00*	*1*
2-Fluorophenol (Surr)	*45*		*25 - 128*	*12/19/16 15:36*	*12/21/16 20:00*	*1*
Nitrobenzene-d5 (Surr)	*65*		*15 - 136*	*12/19/16 15:36*	*12/21/16 20:00*	*1*
Phenol-d5 (Surr)	*44*		*29 - 130*	*12/19/16 15:36*	*12/21/16 20:00*	*1*
Terphenyl-d14 (Surr)	*86*		*24 - 146*	*12/19/16 15:36*	*12/21/16 20:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.1		5.1		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Arsenic	**3.4**		0.51		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Beryllium	**0.55**		0.30		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Cadmium	<0.51		0.51		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Chromium	**6.6**		1.0		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Copper	**3.0**		1.0		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Lead	**13**		0.51		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Nickel	**2.6**		0.51		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Selenium	<1.0		1.0		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Silver	<0.51		0.51		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Zinc	**4.5**		2.0		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1
Thallium	<1.0		1.0		mg/Kg	☼	12/21/16 13:09	12/23/16 14:59	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	12/29/16 14:02	12/30/16 12:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**7.8**		0.1		%			12/18/16 16:03	1

Client Sample ID: SB-1 0'-11.5'
Date Collected: 12/14/16 13:25
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-2
Matrix: Solid
Percent Solids: 86.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,1,2,2-Tetrachloroethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,1,2-Trichloroethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,1-Dichloroethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,1-Dichloroethene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,2-Dichlorobenzene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,2-Dichloroethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,2-Dichloropropane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,3-Dichlorobenzene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
1,4-Dichlorobenzene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
2-Hexanone	<14000		14000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Acetone	<14000		14000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Benzene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Bromoform	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Bromomethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Carbon disulfide	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Carbon tetrachloride	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Chlorobenzene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Chlorodibromomethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Chloroethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Chloroform	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Chloromethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
cis-1,2-Dichloroethene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
cis-1,3-Dichloropropene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Dichlorobromomethane	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Ethylbenzene	**24000**		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
m-Xylene & p-Xylene	**110000**		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
2-Butanone (MEK)	<14000		14000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
4-Methyl-2-pentanone (MIBK)	<14000		14000		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Methylene Chloride	<8600		8600		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
o-Xylene	**40000**		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Styrene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Tetrachloroethene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Toluene	**45000**		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
trans-1,2-Dichloroethene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
trans-1,3-Dichloropropene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Trichloroethene	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Vinyl chloride	<2900		2900		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500
Xylenes, Total	**150000**		5800		ug/Kg	☼	12/17/16 18:30	12/21/16 14:13	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*100*		*72 - 122*	*12/17/16 18:30*	*12/21/16 14:13*	*500*
Dibromofluoromethane	*94*		*79 - 123*	*12/17/16 18:30*	*12/21/16 14:13*	*500*
Toluene-d8 (Surr)	*93*		*80 - 120*	*12/17/16 18:30*	*12/21/16 14:13*	*500*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
4-Chloro-3-methylphenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2-Chlorophenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1

Client Sample ID: SB-1 0'-11.5'
Date Collected: 12/14/16 13:25
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-2
Matrix: Solid
Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2,4-Dimethylphenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
4,6-Dinitro-2-methylphenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/23/16 17:22	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2-Methylphenol	**430**		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
3 & 4 Methylphenol	<750		750		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2-Nitrophenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/23/16 17:22	1
4-Nitrophenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Pentachlorophenol	<750		750		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Phenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2,4,5-Trichlorophenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2,4,6-Trichlorophenol	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Acenaphthene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Acenaphthylene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Acetophenone	**1200**		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Anthracene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Benzaldehyde	**1600**		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Benzo[a]anthracene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Benzo[a]pyrene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Benzo[b]fluoranthene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Benzo[k]fluoranthene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
4-Bromophenyl phenyl ether	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Butyl benzyl phthalate	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Caprolactam	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Carbazole	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
4-Chloroaniline	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Bis(2-chloroethoxy)methane	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Bis(2-chloroethyl)ether	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2-Chloronaphthalene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
4-Chlorophenyl phenyl ether	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Chrysene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Dibenz(a,h)anthracene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Dibenzofuran	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Di-n-butyl phthalate	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Di-n-octyl phthalate	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
3,3'-Dichlorobenzidine	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Diethyl phthalate	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Dimethyl phthalate	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2,4-Dinitrotoluene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2,6-Dinitrotoluene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
1,1'-Biphenyl	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Bis(2-ethylhexyl) phthalate	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Fluoranthene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Fluorene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Hexachlorobenzene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Hexachlorobutadiene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Hexachlorocyclopentadiene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Hexachloroethane	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Indeno[1,2,3-cd]pyrene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1

Client Sample ID: SB-1 0'-11.5'
Date Collected: 12/14/16 13:25
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-2
Matrix: Solid
Percent Solids: 86.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Naphthalene	**1800**		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2-Methylnaphthalene	**1600**		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
3-Nitroaniline	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
4-Nitroaniline	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Nitrobenzene	<380		380		ug/Kg	☼	12/19/16 15:36	12/23/16 17:22	1
N-Nitrosodiphenylamine	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
N-Nitrosodi-n-propylamine	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Phenanthrene	**440**		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Pyrene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
bis (2-chloroisopropyl) ether	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
2-Nitroaniline	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1
Benzo[g,h,i]perylene	<380		380		ug/Kg	☼	12/19/16 15:36	12/21/16 21:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*116*		*10 - 150*	*12/19/16 15:36*	*12/21/16 21:40*	*1*
2-Fluorobiphenyl	*101*		*27 - 127*	*12/19/16 15:36*	*12/21/16 21:40*	*1*
2-Fluorophenol (Surr)	*90*		*25 - 128*	*12/19/16 15:36*	*12/21/16 21:40*	*1*
Nitrobenzene-d5 (Surr)	*86*		*15 - 136*	*12/19/16 15:36*	*12/21/16 21:40*	*1*
Phenol-d5 (Surr)	*87*		*29 - 130*	*12/19/16 15:36*	*12/21/16 21:40*	*1*
Terphenyl-d14 (Surr)	*116*		*24 - 146*	*12/19/16 15:36*	*12/21/16 21:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.4		5.4		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Arsenic	**2.6**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Beryllium	<0.32		0.32		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Cadmium	<0.54		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Chromium	**9.8**		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Copper	**3.1**		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Lead	**5.2**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Nickel	**1.8**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Selenium	<1.1		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Silver	<0.54		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Zinc	**5.1**		2.2		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1
Thallium	<1.1		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:02	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.018		0.018		mg/Kg	☼	12/29/16 14:02	12/30/16 12:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.4**		0.1		%			12/18/16 16:03	1

Client: Thompson Engineering Inc
Project/Site: Shell Station

TestAmerica Job ID: 400-131514-1

Client Sample ID: SB-2 0'-11'
Date Collected: 12/14/16 13:50
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-3
Matrix: Solid
Percent Solids: 86.8

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,1,2,2-Tetrachloroethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,1,2-Trichloroethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,1-Dichloroethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,1-Dichloroethene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,2-Dichlorobenzene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,2-Dichloroethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,2-Dichloropropane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,3-Dichlorobenzene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
1,4-Dichlorobenzene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
2-Hexanone	<57000		57000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Acetone	<57000		57000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Benzene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Bromoform	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Bromomethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Carbon disulfide	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Carbon tetrachloride	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Chlorobenzene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Chlorodibromomethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Chloroethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Chloroform	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Chloromethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
cis-1,2-Dichloroethene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
cis-1,3-Dichloropropene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Dichlorobromomethane	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Ethylbenzene	**56000**		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
m-Xylene & p-Xylene	**230000**		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
2-Butanone (MEK)	<57000		57000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
4-Methyl-2-pentanone (MIBK)	<57000		57000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Methylene Chloride	<34000		34000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
o-Xylene	**90000**		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Styrene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Tetrachloroethene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Toluene	**130000**		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
trans-1,2-Dichloroethene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
trans-1,3-Dichloropropene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Trichloroethene	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Vinyl chloride	<11000		11000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000
Xylenes, Total	**320000**		23000		ug/Kg	☼	12/17/16 18:30	12/21/16 15:03	2000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*12/17/16 18:30*	*12/21/16 15:03*	*2000*
Dibromofluoromethane	*98*		*79 - 123*	*12/17/16 18:30*	*12/21/16 15:03*	*2000*
Toluene-d8 (Surr)	*91*		*80 - 120*	*12/17/16 18:30*	*12/21/16 15:03*	*2000*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2-Chlorophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1

Client Sample ID: SB-2 0'-11'
Date Collected: 12/14/16 13:50
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-3
Matrix: Solid
Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/23/16 17:56	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2-Methylphenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
3 & 4 Methylphenol	<750		750		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2-Nitrophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/23/16 17:56	1
4-Nitrophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Pentachlorophenol	<750		750		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Phenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Acenaphthene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Acenaphthylene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Acetophenone	**3500**		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Anthracene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Benzaldehyde	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Caprolactam	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Carbazole	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
4-Chloroaniline	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2-Chloronaphthalene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Chrysene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Dibenzofuran	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Diethyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Dimethyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
1,1'-Biphenyl	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Fluoranthene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Fluorene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Hexachlorobenzene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Hexachloroethane	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1

Client Sample ID: SB-2 0'-11'
Date Collected: 12/14/16 13:50
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-3
Matrix: Solid
Percent Solids: 86.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Naphthalene	**4100**		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2-Methylnaphthalene	**4900**		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
3-Nitroaniline	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
4-Nitroaniline	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Nitrobenzene	<370		370		ug/Kg	☼	12/19/16 15:36	12/23/16 17:56	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Phenanthrene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Pyrene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
bis (2-chloroisopropyl) ether	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
2-Nitroaniline	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*143*		*10 - 150*	*12/19/16 15:36*	*12/21/16 22:13*	*1*
2-Fluorobiphenyl	*131*	*X*	*27 - 127*	*12/19/16 15:36*	*12/21/16 22:13*	*1*
2-Fluorophenol (Surr)	*113*		*25 - 128*	*12/19/16 15:36*	*12/21/16 22:13*	*1*
Nitrobenzene-d5 (Surr)	*109*		*15 - 136*	*12/19/16 15:36*	*12/21/16 22:13*	*1*
Phenol-d5 (Surr)	*109*		*29 - 130*	*12/19/16 15:36*	*12/21/16 22:13*	*1*
Terphenyl-d14 (Surr)	*155*	*X*	*24 - 146*	*12/19/16 15:36*	*12/21/16 22:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.4		5.4		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Arsenic	**3.0**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Beryllium	<0.32		0.32		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Cadmium	<0.54		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Chromium	**13**		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Copper	**3.7**		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Lead	**7.6**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Nickel	**2.8**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Selenium	<1.1		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Silver	<0.54		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Zinc	**11**		2.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1
Thallium	<1.1		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:06	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	12/29/16 14:02	12/30/16 12:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**13.2**		0.1		%			12/18/16 16:03	1

Client Sample ID: SB-3 0'-10
Date Collected: 12/14/16 14:15
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-4
Matrix: Solid
Percent Solids: 87.6

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,1,2,2-Tetrachloroethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,1,2-Trichloroethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,1-Dichloroethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,1-Dichloroethene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,2-Dichlorobenzene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,2-Dichloroethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,2-Dichloropropane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,3-Dichlorobenzene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
1,4-Dichlorobenzene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
2-Hexanone	<2800		2800		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Acetone	<2800		2800		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Benzene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Bromoform	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Bromomethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Carbon disulfide	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Carbon tetrachloride	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Chlorobenzene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Chlorodibromomethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Chloroethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Chloroform	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Chloromethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
cis-1,2-Dichloroethene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
cis-1,3-Dichloropropene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Dichlorobromomethane	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Ethylbenzene	**5600**		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
m-Xylene & p-Xylene	**24000**		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
2-Butanone (MEK)	<2800		2800		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
4-Methyl-2-pentanone (MIBK)	<2800		2800		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Methylene Chloride	<1700		1700		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
o-Xylene	**9400**		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Styrene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Tetrachloroethene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Toluene	**8000**		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
trans-1,2-Dichloroethene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
trans-1,3-Dichloropropene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Trichloroethene	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Vinyl chloride	<550		550		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100
Xylenes, Total	**33000**		1100		ug/Kg	☼	12/17/16 18:30	12/21/16 13:48	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*98*		*72 - 122*	*12/17/16 18:30*	*12/21/16 13:48*	*100*
Dibromofluoromethane	*98*		*79 - 123*	*12/17/16 18:30*	*12/21/16 13:48*	*100*
Toluene-d8 (Surr)	*94*		*80 - 120*	*12/17/16 18:30*	*12/21/16 13:48*	*100*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2-Chlorophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1

Client Sample ID: SB-3 0'-10
Date Collected: 12/14/16 14:15
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-4
Matrix: Solid
Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2,4-Dimethylphenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
4,6-Dinitro-2-methylphenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/23/16 18:29	1
2,4-Dinitrophenol	<1100		1100		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2-Methylphenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
3 & 4 Methylphenol	<750		750		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2-Nitrophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/23/16 18:29	1
4-Nitrophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Pentachlorophenol	<750		750		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Phenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Acenaphthene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Acenaphthylene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Acetophenone	**1200**		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Anthracene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Benzaldehyde	**790**		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Benzo[a]anthracene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Benzo[a]pyrene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Benzo[b]fluoranthene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Benzo[k]fluoranthene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Butyl benzyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Caprolactam	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Carbazole	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
4-Chloroaniline	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2-Chloronaphthalene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Chrysene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Dibenzofuran	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Di-n-butyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Di-n-octyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
3,3'-Dichlorobenzidine	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Diethyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Dimethyl phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
1,1'-Biphenyl	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Fluoranthene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Fluorene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Hexachlorobenzene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Hexachlorobutadiene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Hexachloroethane	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Indeno[1,2,3-cd]pyrene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1

Client Sample ID: SB-3 0'-10
Date Collected: 12/14/16 14:15
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-4
Matrix: Solid
Percent Solids: 87.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isophorone	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Naphthalene	**1600**		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2-Methylnaphthalene	**2500**		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
3-Nitroaniline	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
4-Nitroaniline	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Nitrobenzene	<370		370		ug/Kg	☼	12/19/16 15:36	12/23/16 18:29	1
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Phenanthrene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Pyrene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
bis (2-chloroisopropyl) ether	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
2-Nitroaniline	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1
Benzo[g,h,i]perylene	<370		370		ug/Kg	☼	12/19/16 15:36	12/21/16 22:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*150*		*10 - 150*	*12/19/16 15:36*	*12/21/16 22:46*	*1*
2-Fluorobiphenyl	*126*		*27 - 127*	*12/19/16 15:36*	*12/21/16 22:46*	*1*
2-Fluorophenol (Surr)	*115*		*25 - 128*	*12/19/16 15:36*	*12/21/16 22:46*	*1*
Nitrobenzene-d5 (Surr)	*107*		*15 - 136*	*12/19/16 15:36*	*12/21/16 22:46*	*1*
Phenol-d5 (Surr)	*112*		*29 - 130*	*12/19/16 15:36*	*12/21/16 22:46*	*1*
Terphenyl-d14 (Surr)	*159*	*X*	*24 - 146*	*12/19/16 15:36*	*12/21/16 22:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.4		5.4		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Arsenic	**1.7**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Beryllium	<0.32		0.32		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Cadmium	<0.54		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Chromium	**7.6**		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Copper	**2.6**		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Lead	**5.2**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Nickel	**2.2**		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Selenium	<1.1		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Silver	<0.54		0.54		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Zinc	**7.3**		2.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1
Thallium	<1.1		1.1		mg/Kg	☼	12/21/16 13:09	12/23/16 15:09	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.017		0.017		mg/Kg	☼	12/29/16 14:02	12/30/16 12:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture	**12.4**		0.1		%			12/18/16 16:03	1

Client Sample ID: TW-1
Date Collected: 12/14/16 14:31
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		2.0		ug/L			12/23/16 11:15	2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L			12/23/16 11:15	2
1,1,2-Trichloroethane	<10		10		ug/L			12/23/16 11:15	2
1,1-Dichloroethane	<2.0		2.0		ug/L			12/23/16 11:15	2
1,1-Dichloroethene	<2.0		2.0		ug/L			12/23/16 11:15	2
1,2-Dichlorobenzene	<2.0		2.0		ug/L			12/23/16 11:15	2
1,2-Dichloroethane	<2.0		2.0		ug/L			12/23/16 11:15	2
1,2-Dichloropropane	<2.0		2.0		ug/L			12/23/16 11:15	2
1,3-Dichlorobenzene	<2.0		2.0		ug/L			12/23/16 11:15	2
1,4-Dichlorobenzene	<2.0		2.0		ug/L			12/23/16 11:15	2
2-Hexanone	<50		50		ug/L			12/23/16 11:15	2
Acetone	<50		50		ug/L			12/23/16 11:15	2
Benzene	**70**		2.0		ug/L			12/23/16 11:15	2
Bromoform	<10		10		ug/L			12/23/16 11:15	2
Bromomethane	<2.0		2.0		ug/L			12/23/16 11:15	2
Carbon disulfide	<2.0		2.0		ug/L			12/23/16 11:15	2
Carbon tetrachloride	<2.0		2.0		ug/L			12/23/16 11:15	2
Chlorobenzene	<2.0		2.0		ug/L			12/23/16 11:15	2
Chlorodibromomethane	<2.0		2.0		ug/L			12/23/16 11:15	2
Chloroethane	<2.0		2.0		ug/L			12/23/16 11:15	2
Chloroform	<2.0		2.0		ug/L			12/23/16 11:15	2
Chloromethane	<2.0		2.0		ug/L			12/23/16 11:15	2
cis-1,2-Dichloroethene	<2.0		2.0		ug/L			12/23/16 11:15	2
cis-1,3-Dichloropropene	<10		10		ug/L			12/23/16 11:15	2
Dichlorobromomethane	<2.0		2.0		ug/L			12/23/16 11:15	2
Ethylbenzene	**120**		2.0		ug/L			12/23/16 11:15	2
m-Xylene & p-Xylene	**430**		10		ug/L			12/23/16 11:15	2
2-Butanone (MEK)	<50		50		ug/L			12/23/16 11:15	2
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			12/23/16 11:15	2
Methylene Chloride	<10		10		ug/L			12/23/16 11:15	2
o-Xylene	**170**		10		ug/L			12/23/16 11:15	2
Styrene	<2.0		2.0		ug/L			12/23/16 11:15	2
Tetrachloroethene	<2.0		2.0		ug/L			12/23/16 11:15	2
Toluene	**310**		2.0		ug/L			12/23/16 11:15	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			12/23/16 11:15	2
trans-1,3-Dichloropropene	<10		10		ug/L			12/23/16 11:15	2
Trichloroethene	<2.0		2.0		ug/L			12/23/16 11:15	2
Vinyl chloride	<2.0		2.0		ug/L			12/23/16 11:15	2
Xylenes, Total	**600**		20		ug/L			12/23/16 11:15	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*108*		*78 - 118*		*12/23/16 11:15*	*2*
Dibromofluoromethane	*98*		*81 - 121*		*12/23/16 11:15*	*2*
Toluene-d8 (Surr)	*95*		*80 - 120*		*12/23/16 11:15*	*2*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Acenaphthylene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Anthracene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1

Client Sample ID: TW-1
Date Collected: 12/14/16 14:31
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	<98		98		ug/L		12/21/16 10:31	12/23/16 13:38	1
Benzo[a]anthracene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Benzo[a]pyrene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Benzo[b]fluoranthene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Benzo[g,h,i]perylene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Benzo[k]fluoranthene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Bis(2-chloroethoxy)methane	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Bis(2-chloroethyl)ether	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Bis(2-ethylhexyl) phthalate	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
4-Bromophenyl phenyl ether	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Butyl benzyl phthalate	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Carbazole	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
4-Chloroaniline	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
4-Chloro-3-methylphenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2-Chlorophenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
4-Chlorophenyl phenyl ether	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Chrysene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Dibenz(a,h)anthracene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Dibenzofuran	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
1,2-Dichlorobenzene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
1,3-Dichlorobenzene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
1,4-Dichlorobenzene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
3,3'-Dichlorobenzidine	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2,4-Dichlorophenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Diethyl phthalate	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2,4-Dimethylphenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Dimethyl phthalate	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Di-n-butyl phthalate	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
4,6-Dinitro-2-methylphenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2,4-Dinitrophenol	<120		120		ug/L		12/21/16 10:31	12/23/16 13:38	1
2,4-Dinitrotoluene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2,6-Dinitrotoluene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Di-n-octyl phthalate	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Dinoseb	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Fluoranthene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Fluorene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Hexachlorobenzene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Hexachlorobutadiene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Hexachlorocyclopentadiene	<78		78		ug/L		12/21/16 10:31	12/23/16 13:38	1
Hexachloroethane	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Indeno[1,2,3-cd]pyrene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Isophorone	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
1-Methylnaphthalene	**48**		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2-Methylnaphthalene	**70**		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2-Methylphenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
3 & 4 Methylphenol	<78		78		ug/L		12/21/16 10:31	12/23/16 13:38	1
Naphthalene	**230**		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2-Nitroaniline	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
4-Nitroaniline	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1

Client Sample ID: TW-1
Date Collected: 12/14/16 14:31
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-5
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2-Nitrophenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
4-Nitrophenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
N-Nitrosodimethylamine	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
N-Nitrosodi-n-propylamine	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
N-Nitrosodiphenylamine	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Pentachlorophenol	<78		78		ug/L		12/21/16 10:31	12/23/16 13:38	1
Phenanthrene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Phenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
Pyrene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
1,2,4-Trichlorobenzene	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2,4,5-Trichlorophenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1
2,4,6-Trichlorophenol	<39		39		ug/L		12/21/16 10:31	12/23/16 13:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*65*		*34 - 120*	*12/21/16 10:31*	*12/23/16 13:38*	*1*
2-Fluorophenol (Surr)	*38*		*10 - 120*	*12/21/16 10:31*	*12/23/16 13:38*	*1*
Nitrobenzene-d5 (Surr)	*58*		*27 - 120*	*12/21/16 10:31*	*12/23/16 13:38*	*1*
Phenol-d5 (Surr)	*49*		*10 - 120*	*12/21/16 10:31*	*12/23/16 13:38*	*1*
Terphenyl-d14 (Surr)	*49*	*X*	*53 - 125*	*12/21/16 10:31*	*12/23/16 13:38*	*1*
2,4,6-Tribromophenol (Surr)	*86*		*15 - 135*	*12/21/16 10:31*	*12/23/16 13:38*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 20:12	1
Arsenic	**0.024**		0.0050		mg/L		12/21/16 11:28	12/22/16 20:12	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 20:12	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:12	1
Chromium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:12	1
Copper	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:12	1
Lead	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:12	1
Nickel	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:12	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:12	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 20:12	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 20:12	1
Zinc	<0.020		0.020		mg/L		12/21/16 11:28	12/22/16 20:12	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/16 09:28	12/30/16 14:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-335890/1-A
Matrix: Solid
Analysis Batch: 335860

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335890

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,1,2,2-Tetrachloroethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,1,2-Trichloroethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,1-Dichloroethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,1-Dichloroethene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,2-Dichlorobenzene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,2-Dichloroethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,2-Dichloropropane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,3-Dichlorobenzene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
1,4-Dichlorobenzene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
2-Hexanone	<1300		1300		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Acetone	<1300		1300		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Benzene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Bromoform	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Bromomethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Carbon disulfide	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Carbon tetrachloride	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Chlorobenzene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Chlorodibromomethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Chloroethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Chloroform	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Chloromethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
cis-1,2-Dichloroethene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
cis-1,3-Dichloropropene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Dichlorobromomethane	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Ethylbenzene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
m-Xylene & p-Xylene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
2-Butanone (MEK)	<1300		1300		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
4-Methyl-2-pentanone (MIBK)	<1300		1300		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Methylene Chloride	<750		750		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
o-Xylene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Styrene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Tetrachloroethene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Toluene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
trans-1,2-Dichloroethene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
trans-1,3-Dichloropropene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Trichloroethene	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Vinyl chloride	<250		250		ug/Kg		12/17/16 18:30	12/21/16 08:48	50
Xylenes, Total	<500		500		ug/Kg		12/17/16 18:30	12/21/16 08:48	50

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*95*		*72 - 122*	*12/17/16 18:30*	*12/21/16 08:48*	*50*
Dibromofluoromethane	*95*		*79 - 123*	*12/17/16 18:30*	*12/21/16 08:48*	*50*
Toluene-d8 (Surr)	*91*		*80 - 120*	*12/17/16 18:30*	*12/21/16 08:48*	*50*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335890/2-A
Matrix: Solid
Analysis Batch: 335860

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335890

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2500	2570		ug/Kg		103	63 - 130
1,1,2,2-Tetrachloroethane	2500	2410		ug/Kg		96	60 - 131
1,1,2-Trichloroethane	2500	2370		ug/Kg		95	65 - 130
1,1-Dichloroethane	2500	2560		ug/Kg		102	59 - 130
1,1-Dichloroethene	2500	2440		ug/Kg		98	55 - 137
1,2-Dichlorobenzene	2500	2560		ug/Kg		102	64 - 130
1,2-Dichloroethane	2500	2550		ug/Kg		102	62 - 130
1,2-Dichloropropane	2500	2570		ug/Kg		103	64 - 130
1,3-Dichlorobenzene	2500	2550		ug/Kg		102	66 - 130
1,4-Dichlorobenzene	2500	2530		ug/Kg		101	65 - 130
2-Hexanone	10000	9530		ug/Kg		95	57 - 131
Acetone	10000	10600		ug/Kg		106	48 - 160
Benzene	2500	2570		ug/Kg		103	65 - 130
Bromoform	2500	2170		ug/Kg		87	52 - 136
Bromomethane	2500	2480		ug/Kg		99	12 - 160
Carbon disulfide	2500	2090		ug/Kg		83	46 - 141
Carbon tetrachloride	2500	2540		ug/Kg		102	60 - 130
Chlorobenzene	2500	2500		ug/Kg		100	70 - 130
Chlorodibromomethane	2500	2280		ug/Kg		91	58 - 132
Chloroethane	2500	2930		ug/Kg		117	55 - 134
Chloroform	2500	2560		ug/Kg		102	62 - 130
Chloromethane	2500	3120		ug/Kg		125	49 - 136
cis-1,2-Dichloroethene	2500	2480		ug/Kg		99	53 - 135
cis-1,3-Dichloropropene	2500	2450		ug/Kg		98	61 - 130
Dichlorobromomethane	2500	2490		ug/Kg		100	61 - 130
Ethylbenzene	2500	2560		ug/Kg		102	70 - 130
m-Xylene & p-Xylene	2500	2470		ug/Kg		99	70 - 130
2-Butanone (MEK)	10000	10500		ug/Kg		105	55 - 130
4-Methyl-2-pentanone (MIBK)	10000	10300		ug/Kg		103	58 - 130
Methylene Chloride	2500	2560		ug/Kg		102	57 - 132
o-Xylene	2500	2500		ug/Kg		100	70 - 130
Styrene	2500	2430		ug/Kg		97	68 - 130
Tetrachloroethene	2500	3030		ug/Kg		121	67 - 130
Toluene	2500	2410		ug/Kg		97	70 - 130
trans-1,2-Dichloroethene	2500	2630		ug/Kg		105	58 - 134
trans-1,3-Dichloropropene	2500	2180		ug/Kg		87	60 - 130
Trichloroethene	2500	2770		ug/Kg		111	65 - 130
Vinyl chloride	2500	3030		ug/Kg		121	52 - 132
Xylenes, Total	5000	4970		ug/Kg		99	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*95*		*72 - 122*
Dibromofluoromethane	*102*		*79 - 123*
Toluene-d8 (Surr)	*94*		*80 - 120*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-336235/4
Matrix: Water
Analysis Batch: 336235

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/23/16 09:37	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/23/16 09:37	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			12/23/16 09:37	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/23/16 09:37	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/23/16 09:37	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			12/23/16 09:37	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/23/16 09:37	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/23/16 09:37	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			12/23/16 09:37	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			12/23/16 09:37	1
2-Hexanone	<25		25		ug/L			12/23/16 09:37	1
Acetone	<25		25		ug/L			12/23/16 09:37	1
Benzene	<1.0		1.0		ug/L			12/23/16 09:37	1
Bromoform	<5.0		5.0		ug/L			12/23/16 09:37	1
Bromomethane	<1.0		1.0		ug/L			12/23/16 09:37	1
Carbon disulfide	<1.0		1.0		ug/L			12/23/16 09:37	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/23/16 09:37	1
Chlorobenzene	<1.0		1.0		ug/L			12/23/16 09:37	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/23/16 09:37	1
Chloroethane	<1.0		1.0		ug/L			12/23/16 09:37	1
Chloroform	<1.0		1.0		ug/L			12/23/16 09:37	1
Chloromethane	<1.0		1.0		ug/L			12/23/16 09:37	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/23/16 09:37	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/23/16 09:37	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/23/16 09:37	1
Ethylbenzene	<1.0		1.0		ug/L			12/23/16 09:37	1
m-Xylene & p-Xylene	<5.0		5.0		ug/L			12/23/16 09:37	1
2-Butanone (MEK)	<25		25		ug/L			12/23/16 09:37	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/L			12/23/16 09:37	1
Methylene Chloride	<5.0		5.0		ug/L			12/23/16 09:37	1
o-Xylene	<5.0		5.0		ug/L			12/23/16 09:37	1
Styrene	<1.0		1.0		ug/L			12/23/16 09:37	1
Tetrachloroethene	<1.0		1.0		ug/L			12/23/16 09:37	1
Toluene	<1.0		1.0		ug/L			12/23/16 09:37	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/23/16 09:37	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			12/23/16 09:37	1
Trichloroethene	<1.0		1.0		ug/L			12/23/16 09:37	1
Vinyl chloride	<1.0		1.0		ug/L			12/23/16 09:37	1
Xylenes, Total	<10		10		ug/L			12/23/16 09:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene	*107*		*78 - 118*		*12/23/16 09:37*	*1*
Dibromofluoromethane	*97*		*81 - 121*		*12/23/16 09:37*	*1*
Toluene-d8 (Surr)	*101*		*80 - 120*		*12/23/16 09:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-336235/1002
Matrix: Water
Analysis Batch: 336235

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	68 - 130
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	70 - 131
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	70 - 130
1,1-Dichloroethane	50.0	52.8		ug/L		106	70 - 130
1,1-Dichloroethene	50.0	51.0		ug/L		102	63 - 134
1,2-Dichlorobenzene	50.0	52.4		ug/L		105	67 - 130
1,2-Dichloroethane	50.0	54.9		ug/L		110	69 - 130
1,2-Dichloropropane	50.0	48.9		ug/L		98	70 - 130
1,3-Dichlorobenzene	50.0	52.8		ug/L		106	70 - 130
1,4-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 130
2-Hexanone	200	197		ug/L		99	65 - 137
Acetone	200	192		ug/L		96	43 - 160
Benzene	50.0	53.5		ug/L		107	70 - 130
Bromoform	50.0	65.8		ug/L		132	57 - 140
Bromomethane	50.0	42.0		ug/L		84	10 - 160
Carbon disulfide	50.0	50.0		ug/L		100	61 - 137
Carbon tetrachloride	50.0	55.9		ug/L		112	61 - 137
Chlorobenzene	50.0	53.3		ug/L		107	70 - 130
Chlorodibromomethane	50.0	56.2		ug/L		112	67 - 135
Chloroethane	50.0	50.0		ug/L		100	55 - 141
Chloroform	50.0	56.9		ug/L		114	69 - 130
Chloromethane	50.0	36.8		ug/L		74	58 - 137
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	68 - 130
cis-1,3-Dichloropropene	50.0	50.9		ug/L		102	69 - 132
Dichlorobromomethane	50.0	56.2		ug/L		112	67 - 133
Ethylbenzene	50.0	53.8		ug/L		108	70 - 130
m-Xylene & p-Xylene	50.0	53.6		ug/L		107	70 - 130
2-Butanone (MEK)	200	205		ug/L		103	61 - 145
4-Methyl-2-pentanone (MIBK)	200	200		ug/L		100	69 - 138
Methylene Chloride	50.0	51.5		ug/L		103	66 - 135
o-Xylene	50.0	52.7		ug/L		105	70 - 130
Styrene	50.0	49.9		ug/L		100	70 - 130
Tetrachloroethene	50.0	52.8		ug/L		106	65 - 130
Toluene	50.0	51.8		ug/L		104	70 - 130
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 130
trans-1,3-Dichloropropene	50.0	48.3		ug/L		97	63 - 130
Trichloroethene	50.0	52.2		ug/L		104	70 - 130
Vinyl chloride	50.0	43.0		ug/L		86	59 - 136
Xylenes, Total	100	106		ug/L		106	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene	*102*		*78 - 118*
Dibromofluoromethane	*104*		*81 - 121*
Toluene-d8 (Surr)	*99*		*80 - 120*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 400-335631/20-A
Matrix: Solid
Analysis Batch: 336265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Atrazine	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Acenaphthene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
4-Chloro-3-methylphenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Acenaphthylene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2-Chlorophenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Acetophenone	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Anthracene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Benzaldehyde	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Benzo[a]anthracene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Benzo[a]pyrene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Benzo[b]fluoranthene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Benzo[k]fluoranthene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
4-Bromophenyl phenyl ether	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Butyl benzyl phthalate	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2,4-Dichlorophenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Caprolactam	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Carbazole	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2,4-Dimethylphenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
4-Chloroaniline	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Bis(2-chloroethyl)ether	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2-Chloronaphthalene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
4,6-Dinitro-2-methylphenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2,4-Dinitrophenol	<990		990		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Chrysene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Dibenz(a,h)anthracene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Dibenzofuran	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Di-n-butyl phthalate	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Di-n-octyl phthalate	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
3,3'-Dichlorobenzidine	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Diethyl phthalate	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Dimethyl phthalate	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2,4-Dinitrotoluene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2,6-Dinitrotoluene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
1,1'-Biphenyl	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Fluoranthene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Fluorene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Hexachlorobenzene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Hexachlorobutadiene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2-Methylphenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Hexachlorocyclopentadiene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
3 & 4 Methylphenol	<660		660		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Hexachloroethane	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Isophorone	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Naphthalene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-335631/20-A
Matrix: Solid
Analysis Batch: 336265

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335631

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
3-Nitroaniline	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2-Nitrophenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
4-Nitroaniline	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
4-Nitrophenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Nitrobenzene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
N-Nitrosodiphenylamine	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Pentachlorophenol	<660		660		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Phenanthrene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Phenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Pyrene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
bis (2-chloroisopropyl) ether	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2,4,5-Trichlorophenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2-Nitroaniline	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
2,4,6-Trichlorophenol	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1
Benzo[g,h,i]perylene	<330		330		ug/Kg		12/19/16 15:36	12/23/16 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*52*		*27 - 127*	*12/19/16 15:36*	*12/23/16 11:09*	*1*
2-Fluorophenol (Surr)	*50*		*25 - 128*	*12/19/16 15:36*	*12/23/16 11:09*	*1*
Nitrobenzene-d5 (Surr)	*49*		*15 - 136*	*12/19/16 15:36*	*12/23/16 11:09*	*1*
Phenol-d5 (Surr)	*50*		*29 - 130*	*12/19/16 15:36*	*12/23/16 11:09*	*1*
2,4,6-Tribromophenol (Surr)	*65*		*10 - 150*	*12/19/16 15:36*	*12/23/16 11:09*	*1*
Terphenyl-d14 (Surr)	*57*		*24 - 146*	*12/19/16 15:36*	*12/23/16 11:09*	*1*

Lab Sample ID: LCS 400-335631/19-A
Matrix: Solid
Analysis Batch: 335868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	1990	1480		ug/Kg		74	50 - 130
4-Chloro-3-methylphenol	1990	1610		ug/Kg		81	30 - 150
Acenaphthylene	1990	1600		ug/Kg		81	50 - 130
2-Chlorophenol	1990	1420		ug/Kg		72	57 - 130
Anthracene	1990	1610		ug/Kg		81	50 - 130
Benzo[a]anthracene	1990	1560		ug/Kg		79	50 - 130
Benzo[a]pyrene	1990	1520		ug/Kg		77	50 - 130
Benzo[b]fluoranthene	1990	1470		ug/Kg		74	50 - 130
Benzo[k]fluoranthene	1990	1500		ug/Kg		75	50 - 130
4-Bromophenyl phenyl ether	1990	1490		ug/Kg		75	45 - 134
Butyl benzyl phthalate	1990	1660		ug/Kg		84	57 - 139
2,4-Dichlorophenol	1990	1580		ug/Kg		80	56 - 130
Carbazole	1990	1730		ug/Kg		87	43 - 150
2,4-Dimethylphenol	1990	1510		ug/Kg		76	43 - 130
4-Chloroaniline	1990	1100		ug/Kg		55	29 - 130
Bis(2-chloroethoxy)methane	1990	1400		ug/Kg		71	47 - 130
Bis(2-chloroethyl)ether	1990	1360		ug/Kg		69	37 - 130

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335631/19-A
Matrix: Solid
Analysis Batch: 335868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335631

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Chloronaphthalene	1990	1480		ug/Kg		74	60 - 130
4,6-Dinitro-2-methylphenol	3970	3280		ug/Kg		83	10 - 142
2,4-Dinitrophenol	6620	4710		ug/Kg		71	10 - 130
4-Chlorophenyl phenyl ether	1990	1570		ug/Kg		79	58 - 130
Chrysene	1990	1580		ug/Kg		79	50 - 130
Dibenz(a,h)anthracene	1990	1560		ug/Kg		79	43 - 133
Dibenzofuran	1990	1570		ug/Kg		79	37 - 137
Di-n-butyl phthalate	1990	1700		ug/Kg		86	62 - 131
Di-n-octyl phthalate	1990	1870		ug/Kg		94	57 - 140
Diethyl phthalate	1990	1660		ug/Kg		84	63 - 130
Dimethyl phthalate	1990	1590		ug/Kg		80	65 - 130
2,4-Dinitrotoluene	1990	1810		ug/Kg		91	56 - 130
2,6-Dinitrotoluene	1990	1600		ug/Kg		81	65 - 130
Bis(2-ethylhexyl) phthalate	1990	1740		ug/Kg		87	62 - 140
Fluoranthene	1990	1740		ug/Kg		88	50 - 130
Fluorene	1990	1610		ug/Kg		81	50 - 130
Hexachlorobenzene	1990	1550		ug/Kg		78	44 - 136
Hexachlorobutadiene	1990	1450		ug/Kg		73	44 - 130
2-Methylphenol	1990	1470		ug/Kg		74	34 - 130
Hexachlorocyclopentadiene	1990	2010		ug/Kg		101	1 - 150
3 & 4 Methylphenol	1990	1460		ug/Kg		74	10 - 150
Hexachloroethane	1990	1360		ug/Kg		68	44 - 130
Indeno[1,2,3-cd]pyrene	1990	1550		ug/Kg		78	43 - 131
Isophorone	1990	1440		ug/Kg		72	48 - 130
Naphthalene	1990	1460		ug/Kg		74	45 - 130
2-Methylnaphthalene	1990	1580		ug/Kg		79	50 - 130
3-Nitroaniline	1990	1430		ug/Kg		72	10 - 150
2-Nitrophenol	1990	1600		ug/Kg		81	54 - 130
4-Nitroaniline	1990	1620		ug/Kg		81	10 - 150
4-Nitrophenol	3970	3330		ug/Kg		84	10 - 150
Nitrobenzene	1990	1370		ug/Kg		69	49 - 130
N-Nitrosodi-n-propylamine	1990	1370		ug/Kg		69	44 - 130
N-Nitrosodiphenylamine	1970	1440		ug/Kg		73	49 - 148
Pentachlorophenol	3970	3570		ug/Kg		90	10 - 150
Phenanthrene	1990	1580		ug/Kg		80	5 - 130
Phenol	1990	1390		ug/Kg		70	43 - 130
Pyrene	1990	1570		ug/Kg		79	47 - 135
bis (2-chloroisopropyl) ether	1990	1250		ug/Kg		63	14 - 149
2,4,5-Trichlorophenol	1990	1720		ug/Kg		87	51 - 130
2-Nitroaniline	1990	1490		ug/Kg		75	46 - 133
2,4,6-Trichlorophenol	1990	1660		ug/Kg		84	57 - 130
Benzo[g,h,i]perylene	1990	1560		ug/Kg		79	50 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*75*		*27 - 127*
2-Fluorophenol (Surr)	*73*		*25 - 128*
Nitrobenzene-d5 (Surr)	*69*		*15 - 136*
Phenol-d5 (Surr)	*71*		*29 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335631/19-A
Matrix: Solid
Analysis Batch: 335868

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335631

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*88*		*10 - 150*
Terphenyl-d14 (Surr)	*81*		*24 - 146*

Lab Sample ID: 400-131514-1 MS
Matrix: Solid
Analysis Batch: 336346

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 335631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	<350	F1	2150	841	F1	ug/Kg	☼	35	40 - 140
4-Chloro-3-methylphenol	<350	F1	2150	812	F1	ug/Kg	☼	38	40 - 140
Acenaphthylene	<350	F1	2150	840	F1	ug/Kg	☼	39	40 - 140
2-Chlorophenol	<350	F1	2150	726	F1	ug/Kg	☼	34	40 - 140
Anthracene	<350	F1	2150	878	F1	ug/Kg	☼	37	40 - 140
Benzo[a]anthracene	<350	F1	2150	813	F1	ug/Kg	☼	38	40 - 140
Benzo[a]pyrene	<350	F1	2150	802	* F1	ug/Kg	☼	37	40 - 140
Benzo[b]fluoranthene	<350	F1	2150	791	* F1	ug/Kg	☼	37	40 - 140
Benzo[k]fluoranthene	<350	F1	2150	806	* F1	ug/Kg	☼	38	40 - 140
4-Bromophenyl phenyl ether	<350		2150	867		ug/Kg	☼	40	40 - 140
Butyl benzyl phthalate	<350	F1	2150	734	F1	ug/Kg	☼	34	40 - 140
2,4-Dichlorophenol	<350		2150	897		ug/Kg	☼	42	40 - 140
Carbazole	<350	F1	2150	819	F1	ug/Kg	☼	38	40 - 140
2,4-Dimethylphenol	<350		2150	946		ug/Kg	☼	44	40 - 140
4-Chloroaniline	<350	F1	2150	470	F1	ug/Kg	☼	22	40 - 140
Bis(2-chloroethoxy)methane	<350	F1	2150	652	F1	ug/Kg	☼	30	40 - 140
Bis(2-chloroethyl)ether	<350	F1	2150	615	F1	ug/Kg	☼	29	40 - 140
2-Chloronaphthalene	<350	F1	2150	786	F1	ug/Kg	☼	37	40 - 140
4,6-Dinitro-2-methylphenol	<350	F1	4290	1760		ug/Kg	☼	41	40 - 140
2,4-Dinitrophenol	<1100	F1	7150	2760	F1	ug/Kg	☼	39	40 - 140
4-Chlorophenyl phenyl ether	<350		2150	894		ug/Kg	☼	42	40 - 140
Chrysene	<350	F1	2150	811	F1	ug/Kg	☼	38	40 - 140
Dibenz(a,h)anthracene	<350		2150	859	*	ug/Kg	☼	40	40 - 140
Dibenzofuran	<350	F1	2150	844	F1	ug/Kg	☼	39	40 - 140
Di-n-butyl phthalate	<350	F1	2150	798	F1	ug/Kg	☼	37	40 - 140
Di-n-octyl phthalate	<350	F1	2150	724	F1	ug/Kg	☼	34	40 - 140
Diethyl phthalate	<350		2150	872		ug/Kg	☼	41	40 - 140
Dimethyl phthalate	<350	F1	2150	831	F1	ug/Kg	☼	39	40 - 140
2,4-Dinitrotoluene	<350		2150	977		ug/Kg	☼	46	40 - 140
2,6-Dinitrotoluene	<350	F1	2150	846	F1	ug/Kg	☼	39	40 - 140
Bis(2-ethylhexyl) phthalate	<350	F1	2150	728	F1	ug/Kg	☼	32	40 - 140
Fluoranthene	<350		2150	875		ug/Kg	☼	41	40 - 140
Fluorene	<350	F1	2150	915	F1	ug/Kg	☼	36	40 - 140
Hexachlorobenzene	<350		2150	954		ug/Kg	☼	44	40 - 140
Hexachlorobutadiene	<350		2150	890		ug/Kg	☼	41	40 - 140
2-Methylphenol	<350	F1	2150	799	F1	ug/Kg	☼	37	40 - 140
Hexachlorocyclopentadiene	<350		2150	983		ug/Kg	☼	46	40 - 140
3 & 4 Methylphenol	<710	F1	2150	831	F1	ug/Kg	☼	39	40 - 140
Hexachloroethane	<350	F1	2150	<350	F1	ug/Kg	☼	0	40 - 140
Indeno[1,2,3-cd]pyrene	<350		2150	852	*	ug/Kg	☼	40	40 - 140

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131514-1 MS
Matrix: Solid
Analysis Batch: 336346

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 335631

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Isophorone	<350	F1	2150	658	F1	ug/Kg	☼	31	40 - 140
Naphthalene	12000	E	2150	2910	4	ug/Kg	☼	-402	40 - 140
2-Methylnaphthalene	11000	E	2150	3370	4	ug/Kg	☼	-361	40 - 140
3-Nitroaniline	<350	F1	2150	525	F1	ug/Kg	☼	24	40 - 140
2-Nitrophenol	<350		2150	883		ug/Kg	☼	41	40 - 140
4-Nitroaniline	<350	F1	2150	718	F1	ug/Kg	☼	33	40 - 140
4-Nitrophenol	<350		4290	1800		ug/Kg	☼	42	40 - 140
Nitrobenzene	<350	F1	2150	664	F1	ug/Kg	☼	31	40 - 140
N-Nitrosodi-n-propylamine	<350	F1	2150	604	F1	ug/Kg	☼	28	40 - 140
N-Nitrosodiphenylamine	<350	F1	2130	802	F1	ug/Kg	☼	38	40 - 140
Pentachlorophenol	<710	F1	4290	1590	F1	ug/Kg	☼	37	40 - 140
Phenanthrene	<350	F1	2150	895	F1	ug/Kg	☼	33	40 - 140
Phenol	<350	F1	2150	737	F1	ug/Kg	☼	34	40 - 140
Pyrene	<350	F1	2150	827	F1	ug/Kg	☼	36	40 - 140
bis (2-chloroisopropyl) ether	<350	F1	2150	434	F1	ug/Kg	☼	20	40 - 140
2,4,5-Trichlorophenol	<350		2150	944		ug/Kg	☼	44	40 - 140
2-Nitroaniline	<350	F1	2150	634	F1	ug/Kg	☼	30	40 - 140
2,4,6-Trichlorophenol	<350		2150	940		ug/Kg	☼	44	40 - 140
Benzo[g,h,i]perylene	<350		2150	850	*	ug/Kg	☼	40	40 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2-Fluorobiphenyl	*38*		*27 - 127*
2-Fluorophenol (Surr)	*66*		*25 - 128*
Nitrobenzene-d5 (Surr)	*30*		*15 - 136*
Phenol-d5 (Surr)	*34*		*29 - 130*
2,4,6-Tribromophenol (Surr)	*57*		*10 - 150*
Terphenyl-d14 (Surr)	*41*		*24 - 146*

Lab Sample ID: 400-131514-1 MSD
Matrix: Solid
Analysis Batch: 335925

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 335631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene	<350	F1	2150	2790		ug/Kg	☼	125	40 - 140	NC	30
4-Chloro-3-methylphenol	<350	F1	2150	2630		ug/Kg	☼	122	40 - 140	NC	30
Acenaphthylene	<350	F1	2150	2660		ug/Kg	☼	124	40 - 140	NC	30
2-Chlorophenol	<350	F1	2150	2170		ug/Kg	☼	101	40 - 140	NC	30
Anthracene	<350	F1	2150	2850		ug/Kg	☼	129	40 - 140	NC	30
Benzo[a]anthracene	<350	F1	2150	2570		ug/Kg	☼	119	40 - 140	NC	30
Benzo[a]pyrene	<350	F1	2150	2560		ug/Kg	☼	119	40 - 140	NC	30
Benzo[b]fluoranthene	<350	F1	2150	2460		ug/Kg	☼	115	40 - 140	NC	30
Benzo[k]fluoranthene	<350	F1	2150	2680		ug/Kg	☼	125	40 - 140	NC	30
4-Bromophenyl phenyl ether	<350		2150	2420		ug/Kg	☼	113	40 - 140	NC	30
Butyl benzyl phthalate	<350	F1	2150	2690		ug/Kg	☼	125	40 - 140	NC	30
2,4-Dichlorophenol	<350		2150	2470		ug/Kg	☼	115	40 - 140	NC	30
Carbazole	<350	F1	2150	2860		ug/Kg	☼	133	40 - 140	NC	30
2,4-Dimethylphenol	<350		2150	2810		ug/Kg	☼	131	40 - 140	NC	30
4-Chloroaniline	<350	F1	2150	1370		ug/Kg	☼	64	40 - 140	NC	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131514-1 MSD
Matrix: Solid
Analysis Batch: 335925

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 335631

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bis(2-chloroethoxy)methane	<350	F1	2150	2250		ug/Kg	☼	105	40 - 140	NC	30
Bis(2-chloroethyl)ether	<350	F1	2150	1910		ug/Kg	☼	89	40 - 140	NC	30
2-Chloronaphthalene	<350	F1	2150	2380		ug/Kg	☼	111	40 - 140	NC	30
4,6-Dinitro-2-methylphenol	<350	F1	4300	<350	F1	ug/Kg	☼	0	40 - 140	NC	30
2,4-Dinitrophenol	<1100	F1	7160	6950		ug/Kg	☼	97	40 - 140	NC	30
4-Chlorophenyl phenyl ether	<350		2150	2610		ug/Kg	☼	121	40 - 140	NC	30
Chrysene	<350	F1	2150	2650		ug/Kg	☼	123	40 - 140	NC	30
Dibenz(a,h)anthracene	<350		2150	2670		ug/Kg	☼	124	40 - 140	NC	30
Dibenzofuran	<350	F1	2150	2580		ug/Kg	☼	120	40 - 140	NC	30
Di-n-butyl phthalate	<350	F1	2150	2800		ug/Kg	☼	130	40 - 140	NC	30
Di-n-octyl phthalate	<350	F1	2150	2670		ug/Kg	☼	124	40 - 140	NC	30
Diethyl phthalate	<350		2150	2950		ug/Kg	☼	137	40 - 140	NC	30
Dimethyl phthalate	<350	F1	2150	2460		ug/Kg	☼	115	40 - 140	NC	30
2,4-Dinitrotoluene	<350		2150	2980		ug/Kg	☼	139	40 - 140	NC	30
2,6-Dinitrotoluene	<350	F1	2150	2590		ug/Kg	☼	120	40 - 140	NC	30
Bis(2-ethylhexyl) phthalate	<350	F1	2150	2670		ug/Kg	☼	123	40 - 140	NC	30
Fluoranthene	<350		2150	2830		ug/Kg	☼	132	40 - 140	NC	30
Fluorene	<350	F1	2150	2920		ug/Kg	☼	130	40 - 140	NC	30
Hexachlorobenzene	<350		2150	2480		ug/Kg	☼	115	40 - 140	NC	30
Hexachlorobutadiene	<350		2150	2300		ug/Kg	☼	107	40 - 140	NC	30
2-Methylphenol	<350	F1	2150	2570		ug/Kg	☼	120	40 - 140	NC	30
Hexachlorocyclopentadiene	<350		2150	2550		ug/Kg	☼	119	40 - 140	NC	30
3 & 4 Methylphenol	<710	F1	2150	2690		ug/Kg	☼	125	40 - 140	NC	30
Hexachloroethane	<350	F1	2150	<350	F1	ug/Kg	☼	0	40 - 140	NC	30
Indeno[1,2,3-cd]pyrene	<350		2150	2620		ug/Kg	☼	122	40 - 140	NC	30
Isophorone	<350	F1	2150	2160		ug/Kg	☼	101	40 - 140	NC	30
Naphthalene	12000	E	2150	9140	E 4	ug/Kg	☼	-112	40 - 140	NC	30
2-Methylnaphthalene	11000	E	2150	8660	E 4	ug/Kg	☼	-114	40 - 140	NC	30
3-Nitroaniline	<350	F1	2150	1790		ug/Kg	☼	83	40 - 140	NC	30
2-Nitrophenol	<350		2150	2570		ug/Kg	☼	119	40 - 140	NC	30
4-Nitroaniline	<350	F1	2150	2300		ug/Kg	☼	107	40 - 140	NC	30
4-Nitrophenol	<350		4300	4990		ug/Kg	☼	116	40 - 140	NC	30
Nitrobenzene	<350	F1	2150	2320		ug/Kg	☼	108	40 - 140	NC	30
N-Nitrosodi-n-propylamine	<350	F1	2150	<350	F1	ug/Kg	☼	0	40 - 140	NC	30
N-Nitrosodiphenylamine	<350	F1	2130	2550		ug/Kg	☼	120	40 - 140	NC	30
Pentachlorophenol	<710	F1	4300	5470		ug/Kg	☼	127	40 - 140	NC	30
Phenanthrene	<350	F1	2150	2920		ug/Kg	☼	127	40 - 140	NC	30
Phenol	<350	F1	2150	2010		ug/Kg	☼	94	40 - 140	NC	30
Pyrene	<350	F1	2150	2800		ug/Kg	☼	127	40 - 140	NC	30
bis (2-chloroisopropyl) ether	<350	F1	2150	1860		ug/Kg	☼	87	40 - 140	NC	30
2,4,5-Trichlorophenol	<350		2150	2800		ug/Kg	☼	130	40 - 140	NC	30
2-Nitroaniline	<350	F1	2150	2400		ug/Kg	☼	112	40 - 140	NC	30
2,4,6-Trichlorophenol	<350		2150	2630		ug/Kg	☼	123	40 - 140	NC	30
Benzo[g,h,i]perylene	<350		2150	2610		ug/Kg	☼	122	40 - 140	NC	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
2-Fluorobiphenyl	*120*		*27 - 127*
2-Fluorophenol (Surr)	*94*		*25 - 128*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 400-131514-1 MSD
Matrix: Solid
Analysis Batch: 335925

Client Sample ID: B-1 0'-11'
Prep Type: Total/NA
Prep Batch: 335631

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Nitrobenzene-d5 (Surr)	*96*		*15 - 136*
Phenol-d5 (Surr)	*93*		*29 - 130*
2,4,6-Tribromophenol (Surr)	*146*		*10 - 150*
Terphenyl-d14 (Surr)	*137*		*24 - 146*

Lab Sample ID: MB 400-335918/1-A
Matrix: Water
Analysis Batch: 336262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzidine	<25		25		ug/L		12/21/16 10:31	12/23/16 11:57	1
Acenaphthene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
4-Chloro-3-methylphenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Acenaphthylene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2-Chlorophenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Anthracene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Benzo[a]anthracene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Benzo[a]pyrene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
1,2-Dichlorobenzene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Benzo[b]fluoranthene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
1,3-Dichlorobenzene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Benzo[k]fluoranthene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
1,4-Dichlorobenzene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
4-Bromophenyl phenyl ether	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Butyl benzyl phthalate	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2,4-Dichlorophenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Carbazole	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2,4-Dimethylphenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
4-Chloroaniline	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Bis(2-chloroethoxy)methane	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Bis(2-chloroethyl)ether	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
4,6-Dinitro-2-methylphenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2,4-Dinitrophenol	<30		30		ug/L		12/21/16 10:31	12/23/16 11:57	1
4-Chlorophenyl phenyl ether	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Chrysene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Dibenz(a,h)anthracene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Dibenzofuran	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Di-n-butyl phthalate	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Dinoseb	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Di-n-octyl phthalate	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
3,3'-Dichlorobenzidine	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Diethyl phthalate	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Dimethyl phthalate	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2,4-Dinitrotoluene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2,6-Dinitrotoluene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Fluoranthene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Fluorene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 400-335918/1-A
Matrix: Water
Analysis Batch: 336262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335918

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Hexachlorobenzene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Hexachlorobutadiene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2-Methylphenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Hexachlorocyclopentadiene	<20		20		ug/L		12/21/16 10:31	12/23/16 11:57	1
3 & 4 Methylphenol	<20		20		ug/L		12/21/16 10:31	12/23/16 11:57	1
Hexachloroethane	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Isophorone	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Naphthalene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2-Methylnaphthalene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2-Nitrophenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
4-Nitroaniline	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
4-Nitrophenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Nitrobenzene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
N-Nitrosodimethylamine	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
N-Nitrosodi-n-propylamine	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
N-Nitrosodiphenylamine	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Pentachlorophenol	<20		20		ug/L		12/21/16 10:31	12/23/16 11:57	1
Phenanthrene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Phenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Pyrene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
1,2,4-Trichlorobenzene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2,4,5-Trichlorophenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2-Nitroaniline	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
2,4,6-Trichlorophenol	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1
Benzo[g,h,i]perylene	<10		10		ug/L		12/21/16 10:31	12/23/16 11:57	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2-Fluorobiphenyl	*62*		*34 - 120*	*12/21/16 10:31*	*12/23/16 11:57*	*1*
2-Fluorophenol (Surr)	*0*	*X*	*10 - 120*	*12/21/16 10:31*	*12/23/16 11:57*	*1*
Nitrobenzene-d5 (Surr)	*53*		*27 - 120*	*12/21/16 10:31*	*12/23/16 11:57*	*1*
Phenol-d5 (Surr)	*0.1*	*X*	*10 - 120*	*12/21/16 10:31*	*12/23/16 11:57*	*1*
2,4,6-Tribromophenol (Surr)	*5*	*X*	*15 - 135*	*12/21/16 10:31*	*12/23/16 11:57*	*1*
Terphenyl-d14 (Surr)	*77*		*53 - 125*	*12/21/16 10:31*	*12/23/16 11:57*	*1*

Lab Sample ID: LCS 400-335918/2-A
Matrix: Water
Analysis Batch: 336262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acenaphthene	30.0	26.5		ug/L		88	57 - 125
4-Chloro-3-methylphenol	30.0	24.4		ug/L		81	47 - 135
Acenaphthylene	30.0	26.5		ug/L		88	59 - 125
2-Chlorophenol	30.0	20.5		ug/L		68	45 - 120
Anthracene	30.0	26.6		ug/L		89	65 - 128
Benzo[a]anthracene	30.0	25.2		ug/L		84	63 - 126
Benzo[a]pyrene	30.0	23.3		ug/L		78	61 - 125

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335918/2-A
Matrix: Water
Analysis Batch: 336262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335918

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	30.0	23.4		ug/L		78	53 - 120
Benzo[b]fluoranthene	30.0	23.3		ug/L		78	49 - 140
Benzo[k]fluoranthene	30.0	24.8		ug/L		83	56 - 138
1,4-Dichlorobenzene	30.0	23.4		ug/L		78	51 - 120
4-Bromophenyl phenyl ether	30.0	24.8		ug/L		83	62 - 132
Butyl benzyl phthalate	30.0	26.0		ug/L		87	51 - 150
2,4-Dichlorophenol	30.0	23.4		ug/L		78	52 - 125
Carbazole	30.0	29.0		ug/L		97	57 - 136
2,4-Dimethylphenol	30.0	22.4		ug/L		75	52 - 121
4-Chloroaniline	30.0	21.2		ug/L		71	32 - 128
Bis(2-chloroethoxy)methane	30.0	22.5		ug/L		75	54 - 123
Bis(2-chloroethyl)ether	30.0	22.9		ug/L		76	47 - 120
4,6-Dinitro-2-methylphenol	60.0	49.5		ug/L		83	46 - 136
2,4-Dinitrophenol	100	60.9		ug/L		61	22 - 146
4-Chlorophenyl phenyl ether	30.0	26.0		ug/L		87	61 - 133
Chrysene	30.0	25.9		ug/L		86	60 - 126
Dibenz(a,h)anthracene	30.0	25.3		ug/L		84	57 - 133
Dibenzofuran	30.0	25.6		ug/L		85	62 - 124
Di-n-butyl phthalate	30.0	26.3		ug/L		88	59 - 144
Di-n-octyl phthalate	30.0	25.3		ug/L		84	55 - 140
Diethyl phthalate	30.0	27.4		ug/L		91	55 - 140
Dimethyl phthalate	30.0	24.9		ug/L		83	50 - 133
2,4-Dinitrotoluene	30.0	28.0		ug/L		93	54 - 141
2,6-Dinitrotoluene	30.0	26.0		ug/L		87	61 - 130
Bis(2-ethylhexyl) phthalate	30.0	25.8		ug/L		86	62 - 140
Fluoranthene	30.0	26.7		ug/L		89	66 - 131
Fluorene	30.0	27.0		ug/L		90	60 - 132
1-Methylnaphthalene	30.0	24.3		ug/L		81	59 - 120
Hexachlorobenzene	30.0	26.4		ug/L		88	60 - 138
Hexachlorobutadiene	30.0	23.2		ug/L		77	48 - 126
2-Methylphenol	30.0	22.5		ug/L		75	38 - 121
Hexachlorocyclopentadiene	30.0	19.8	J	ug/L		66	1 - 139
3 & 4 Methylphenol	30.0	22.5		ug/L		75	43 - 126
Hexachloroethane	30.0	22.5		ug/L		75	46 - 121
Indeno[1,2,3-cd]pyrene	30.0	24.5		ug/L		82	55 - 135
Isophorone	30.0	22.3		ug/L		74	57 - 122
Naphthalene	30.0	22.4		ug/L		75	55 - 125
2-Methylnaphthalene	30.0	24.6		ug/L		82	58 - 123
2-Nitrophenol	30.0	24.2		ug/L		81	47 - 129
4-Nitroaniline	30.0	24.5		ug/L		82	38 - 141
4-Nitrophenol	60.0	48.2		ug/L		80	34 - 137
Nitrobenzene	30.0	21.3		ug/L		71	52 - 128
N-Nitrosodimethylamine	30.0	20.4		ug/L		68	21 - 134
N-Nitrosodi-n-propylamine	30.0	22.2		ug/L		74	41 - 143
N-Nitrosodiphenylamine	29.8	24.0		ug/L		81	10 - 185
Pentachlorophenol	60.0	44.7		ug/L		74	38 - 138
Phenanthrene	30.0	26.2		ug/L		87	64 - 133
Phenol	30.0	20.9		ug/L		70	37 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 400-335918/2-A
Matrix: Water
Analysis Batch: 336262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335918

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Pyrene			30.0	26.9		ug/L		90	55 - 142		
1,2,4-Trichlorobenzene			30.0	22.6		ug/L		75	57 - 120		
2,4,5-Trichlorophenol			30.0	27.0		ug/L		90	53 - 130		
2-Nitroaniline			30.0	23.4		ug/L		78	52 - 135		
2,4,6-Trichlorophenol			30.0	26.1		ug/L		87	52 - 131		
Benzo[g,h,i]perylene			30.0	24.3		ug/L		81	51 - 149		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2-Fluorobiphenyl	*78*		*34 - 120*
2-Fluorophenol (Surr)	*47*		*10 - 120*
Nitrobenzene-d5 (Surr)	*66*		*27 - 120*
Phenol-d5 (Surr)	*63*		*10 - 120*
2,4,6-Tribromophenol (Surr)	*90*		*15 - 135*
Terphenyl-d14 (Surr)	*85*		*53 - 125*

Lab Sample ID: LCSD 400-335918/3-A
Matrix: Water
Analysis Batch: 336262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335918

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acenaphthene			30.0	24.7		ug/L		82	57 - 125	7	30
4-Chloro-3-methylphenol			30.0	23.2		ug/L		77	47 - 135	5	30
Acenaphthylene			30.0	24.8		ug/L		83	59 - 125	6	30
2-Chlorophenol			30.0	19.3		ug/L		64	45 - 120	6	30
Anthracene			30.0	25.1		ug/L		84	65 - 128	6	30
Benzo[a]anthracene			30.0	23.8		ug/L		79	63 - 126	6	30
Benzo[a]pyrene			30.0	22.4		ug/L		75	61 - 125	4	30
1,2-Dichlorobenzene			30.0	21.7		ug/L		72	53 - 120	7	30
Benzo[b]fluoranthene			30.0	22.0		ug/L		73	49 - 140	6	30
Benzo[k]fluoranthene			30.0	22.8		ug/L		76	56 - 138	8	30
1,4-Dichlorobenzene			30.0	22.1		ug/L		74	51 - 120	6	30
4-Bromophenyl phenyl ether			30.0	23.4		ug/L		78	62 - 132	6	30
Butyl benzyl phthalate			30.0	23.2		ug/L		77	51 - 150	11	30
2,4-Dichlorophenol			30.0	21.5		ug/L		72	52 - 125	8	30
Carbazole			30.0	28.0		ug/L		93	57 - 136	4	30
2,4-Dimethylphenol			30.0	20.9		ug/L		70	52 - 121	7	30
4-Chloroaniline			30.0	19.9		ug/L		66	32 - 128	6	30
Bis(2-chloroethoxy)methane			30.0	20.7		ug/L		69	54 - 123	8	30
Bis(2-chloroethyl)ether			30.0	21.7		ug/L		72	47 - 120	6	30
4,6-Dinitro-2-methylphenol			60.0	52.1		ug/L		87	46 - 136	5	30
2,4-Dinitrophenol			100	67.2		ug/L		67	22 - 146	10	30
4-Chlorophenyl phenyl ether			30.0	24.4		ug/L		81	61 - 133	6	30
Chrysene			30.0	24.8		ug/L		83	60 - 126	4	30
Dibenz(a,h)anthracene			30.0	26.0		ug/L		87	57 - 133	3	30
Dibenzofuran			30.0	24.2		ug/L		81	62 - 124	6	30
Di-n-butyl phthalate			30.0	24.9		ug/L		83	59 - 144	5	30
Di-n-octyl phthalate			30.0	23.6		ug/L		79	55 - 140	7	30
Diethyl phthalate			30.0	25.8		ug/L		86	55 - 140	6	30

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 400-335918/3-A
Matrix: Water
Analysis Batch: 336262

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 335918

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dimethyl phthalate			30.0	23.8		ug/L		79	50 - 133	5	30
2,4-Dinitrotoluene			30.0	27.2		ug/L		91	54 - 141	3	30
2,6-Dinitrotoluene			30.0	24.8		ug/L		83	61 - 130	5	30
Bis(2-ethylhexyl) phthalate			30.0	23.6		ug/L		79	62 - 140	9	30
Fluoranthene			30.0	26.1		ug/L		87	66 - 131	3	30
Fluorene			30.0	25.3		ug/L		84	60 - 132	6	30
1-Methylnaphthalene			30.0	22.2		ug/L		74	59 - 120	9	30
Hexachlorobenzene			30.0	24.8		ug/L		83	60 - 138	6	30
Hexachlorobutadiene			30.0	21.8		ug/L		73	48 - 126	6	30
2-Methylphenol			30.0	21.2		ug/L		71	38 - 121	6	30
Hexachlorocyclopentadiene			30.0	18.1	J	ug/L		60	1 - 139	9	30
3 & 4 Methylphenol			30.0	20.8		ug/L		69	43 - 126	8	30
Hexachloroethane			30.0	21.4		ug/L		71	46 - 121	5	30
Indeno[1,2,3-cd]pyrene			30.0	25.1		ug/L		84	55 - 135	2	30
Isophorone			30.0	20.8		ug/L		69	57 - 122	7	30
Naphthalene			30.0	21.1		ug/L		70	55 - 125	6	30
2-Methylnaphthalene			30.0	22.5		ug/L		75	58 - 123	9	30
2-Nitrophenol			30.0	22.8		ug/L		76	47 - 129	6	30
4-Nitroaniline			30.0	24.3		ug/L		81	38 - 141	1	30
4-Nitrophenol			60.0	46.3		ug/L		77	34 - 137	4	30
Nitrobenzene			30.0	20.0		ug/L		67	52 - 128	6	30
N-Nitrosodimethylamine			30.0	18.5		ug/L		62	21 - 134	10	30
N-Nitrosodi-n-propylamine			30.0	20.6		ug/L		69	41 - 143	7	30
N-Nitrosodiphenylamine			29.8	22.7		ug/L		76	10 - 185	6	30
Pentachlorophenol			60.0	43.2		ug/L		72	38 - 138	3	30
Phenanthrene			30.0	24.6		ug/L		82	64 - 133	6	30
Phenol			30.0	19.4		ug/L		65	37 - 120	7	30
Pyrene			30.0	23.6		ug/L		79	55 - 142	13	30
1,2,4-Trichlorobenzene			30.0	21.5		ug/L		72	57 - 120	5	30
2,4,5-Trichlorophenol			30.0	25.2		ug/L		84	53 - 130	7	30
2-Nitroaniline			30.0	22.5		ug/L		75	52 - 135	4	30
2,4,6-Trichlorophenol			30.0	23.6		ug/L		79	52 - 131	10	30
Benzo[g,h,i]perylene			30.0	25.0		ug/L		83	51 - 149	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2-Fluorobiphenyl	*73*		*34 - 120*
2-Fluorophenol (Surr)	*46*		*10 - 120*
Nitrobenzene-d5 (Surr)	*62*		*27 - 120*
Phenol-d5 (Surr)	*59*		*10 - 120*
2,4,6-Tribromophenol (Surr)	*85*		*15 - 135*
Terphenyl-d14 (Surr)	*76*		*53 - 125*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 400-335850/1-A
Matrix: Solid
Analysis Batch: 336475

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335850

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<5.0		5.0		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Arsenic	<0.50		0.50		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Beryllium	<0.30		0.30		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Cadmium	<0.50		0.50		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Chromium	<1.0		1.0		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Copper	<1.0		1.0		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Lead	<0.50		0.50		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Nickel	<0.50		0.50		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Selenium	<1.0		1.0		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Silver	<0.50		0.50		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Thallium	<1.0		1.0		mg/Kg		12/21/16 13:09	12/23/16 13:32	1
Zinc	<2.0		2.0		mg/Kg		12/21/16 13:09	12/23/16 13:32	1

Lab Sample ID: LCS 400-335850/2-A
Matrix: Solid
Analysis Batch: 336475

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335850

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	105		mg/Kg		105	80 - 120
Arsenic	100	103		mg/Kg		103	80 - 120
Beryllium	50.0	55.0		mg/Kg		110	80 - 120
Cadmium	50.0	51.6		mg/Kg		103	80 - 120
Chromium	100	110		mg/Kg		110	80 - 120
Copper	100	108		mg/Kg		108	80 - 120
Lead	100	105		mg/Kg		105	80 - 120
Nickel	100	107		mg/Kg		107	80 - 120
Selenium	100	104		mg/Kg		104	80 - 120
Silver	50.0	52.1		mg/Kg		104	80 - 120
Thallium	100	106		mg/Kg		106	80 - 120
Zinc	100	108		mg/Kg		108	80 - 120

Lab Sample ID: MB 400-335938/1-A
Matrix: Water
Analysis Batch: 336250

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 335938

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.050		0.050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Arsenic	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Beryllium	<0.0030		0.0030		mg/L		12/21/16 11:28	12/22/16 19:23	1
Cadmium	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Chromium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:23	1
Copper	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:23	1
Lead	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Nickel	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Selenium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:23	1
Silver	<0.0050		0.0050		mg/L		12/21/16 11:28	12/22/16 19:23	1
Thallium	<0.010		0.010		mg/L		12/21/16 11:28	12/22/16 19:23	1
Zinc	<0.020		0.020		mg/L		12/21/16 11:28	12/22/16 19:23	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 400-335938/2-A
Matrix: Water
Analysis Batch: 336250

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 335938

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	1.05		mg/L		105	80 - 120
Arsenic	1.00	1.05		mg/L		105	80 - 120
Beryllium	0.500	0.535		mg/L		107	80 - 120
Cadmium	0.500	0.524		mg/L		105	80 - 120
Chromium	1.00	1.05		mg/L		105	80 - 120
Copper	1.00	1.05		mg/L		105	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Nickel	1.00	1.04		mg/L		104	80 - 120
Selenium	1.00	1.09		mg/L		109	80 - 120
Silver	0.500	0.527		mg/L		105	80 - 120
Thallium	1.00	1.08		mg/L		108	80 - 120
Zinc	1.00	1.09		mg/L		109	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 400-336493/14-A
Matrix: Water
Analysis Batch: 337052

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 336493

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020		mg/L		12/27/16 09:19	12/30/16 13:56	1

Lab Sample ID: LCS 400-336493/15-A
Matrix: Water
Analysis Batch: 337052

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 336493

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00101	0.00102		mg/L		101	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 400-335636/14-A
Matrix: Solid
Analysis Batch: 337008

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 335636

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg		12/29/16 14:02	12/30/16 11:15	1

Lab Sample ID: LCS 400-335636/15-A
Matrix: Solid
Analysis Batch: 337008

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 335636

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.0665	0.0551		mg/Kg		83	80 - 120

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Shell Station

TestAmerica Job ID: 400-131514-1

Client Sample ID: B-1 0'-11'
Date Collected: 12/14/16 12:55
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:03	RRC	TAL PEN

Client Sample ID: B-1 0'-11'
Date Collected: 12/14/16 12:55
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-1
Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.16 g	5.00 g	335890	12/17/16 18:30	RS	TAL PEN
Total/NA	Analysis	8260B		1000	5 mL	5 mL	335860	12/21/16 14:38	RS	TAL PEN
Total/NA	Prep	3546			15.16 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335925	12/21/16 20:00	VC1	TAL PEN
Total/NA	Prep	3546			15.16 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336346	12/23/16 16:15	KJA	TAL PEN
Total/NA	Prep	3546			15.16 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		2			336346	12/23/16 16:49	KJA	TAL PEN
Total/NA	Prep	3050B			000.5355 g	50 mL	335850	12/21/16 13:09	KWN	TAL PEN
Total/NA	Analysis	6010B		1			336475	12/23/16 14:59	RJB	TAL PEN
Total/NA	Prep	7471B			0.5176 g	40 mL	335636	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 12:03	JAP	TAL PEN

Client Sample ID: SB-1 0'-11.5'
Date Collected: 12/14/16 13:25
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:03	RRC	TAL PEN

Client Sample ID: SB-1 0'-11.5'
Date Collected: 12/14/16 13:25
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-2
Matrix: Solid
Percent Solids: 86.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5.00 g	335890	12/17/16 18:30	RS	TAL PEN
Total/NA	Analysis	8260B		500	5 mL	5 mL	335860	12/21/16 14:13	RS	TAL PEN
Total/NA	Prep	3546			15.15 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335925	12/21/16 21:40	VC1	TAL PEN
Total/NA	Prep	3546			15.15 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336346	12/23/16 17:22	KJA	TAL PEN
Total/NA	Prep	3050B			000.5349 g	50 mL	335850	12/21/16 13:09	KWN	TAL PEN
Total/NA	Analysis	6010B		1			336475	12/23/16 15:02	RJB	TAL PEN
Total/NA	Prep	7471B			0.5053 g	40 mL	335636	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 12:05	JAP	TAL PEN

Client Sample ID: SB-2 0'-11'

Lab Sample ID: 400-131514-3

Date Collected: 12/14/16 13:50

Matrix: Solid

Date Received: 12/14/16 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:03	RRC	TAL PEN

Client Sample ID: SB-2 0'-11'

Lab Sample ID: 400-131514-3

Date Collected: 12/14/16 13:50

Matrix: Solid

Date Received: 12/14/16 15:15

Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.08 g	5.00 g	335890	12/17/16 18:30	RS	TAL PEN
Total/NA	Analysis	8260B		2000	5 mL	5 mL	335860	12/21/16 15:03	RS	TAL PEN
Total/NA	Prep	3546			15.24 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335925	12/21/16 22:13	VC1	TAL PEN
Total/NA	Prep	3546			15.24 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336346	12/23/16 17:56	KJA	TAL PEN
Total/NA	Prep	3050B			000.5373 g	50 mL	335850	12/21/16 13:09	KWN	TAL PEN
Total/NA	Analysis	6010B		1			336475	12/23/16 15:06	RJB	TAL PEN
Total/NA	Prep	7471B			0.5532 g	40 mL	335636	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 12:06	JAP	TAL PEN

Client Sample ID: SB-3 0'-10

Lab Sample ID: 400-131514-4

Date Collected: 12/14/16 14:15

Matrix: Solid

Date Received: 12/14/16 15:15

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			335487	12/18/16 16:03	RRC	TAL PEN

Client Sample ID: SB-3 0'-10

Lab Sample ID: 400-131514-4

Date Collected: 12/14/16 14:15

Matrix: Solid

Date Received: 12/14/16 15:15

Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.15 g	5.00 g	335890	12/17/16 18:30	RS	TAL PEN
Total/NA	Analysis	8260B		100	5 mL	5 mL	335860	12/21/16 13:48	RS	TAL PEN
Total/NA	Prep	3546			15.10 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335925	12/21/16 22:46	VC1	TAL PEN
Total/NA	Prep	3546			15.10 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336346	12/23/16 18:29	KJA	TAL PEN
Total/NA	Prep	3050B			000.5329 g	50 mL	335850	12/21/16 13:09	KWN	TAL PEN
Total/NA	Analysis	6010B		1			336475	12/23/16 15:09	RJB	TAL PEN
Total/NA	Prep	7471B			0.54331 g	40 mL	335636	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 12:07	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Shell Station

TestAmerica Job ID: 400-131514-1

Client Sample ID: TW-1
Date Collected: 12/14/16 14:31
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	336235	12/23/16 11:15	CLN	TAL PEN
Total/NA	Prep	3520C			255 mL	1 mL	335918	12/21/16 10:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			336262	12/23/16 13:38	KJA	TAL PEN
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 20:12	RJB	TAL PEN
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:28	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 14:34	JAP	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-335631/20-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336265	12/23/16 11:09	KJA	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-335636/14-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6250 g	40 mL	335636	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 11:15	JAP	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-335850/1-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			000.4987 g	50 mL	335850	12/21/16 13:09	KWN	TAL PEN
Total/NA	Analysis	6010B		1			336475	12/23/16 13:32	RJB	TAL PEN

Client Sample ID: Method Blank
Date Collected: N/A
Date Received: N/A

Lab Sample ID: MB 400-335890/1-A
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	335890	12/17/16 18:30	RS	TAL PEN
Total/NA	Analysis	8260B		50	5 mL	5 mL	335860	12/21/16 08:48	RS	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-335918/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	335918	12/21/16 10:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			336262	12/23/16 11:57	KJA	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-335938/1-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:23	RJB	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-336235/4

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	336235	12/23/16 09:37	CLN	TAL PEN

Client Sample ID: Method Blank
Lab Sample ID: MB 400-336493/14-A

Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 13:56	JAP	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335631/19-A

Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335868	12/21/16 14:32	MAM	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335636/15-A

Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			0.6061 g	40 mL	335636	12/29/16 14:02	JAP	TAL PEN
Total/NA	Analysis	7471B		1			337008	12/30/16 11:17	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Shell Station

TestAmerica Job ID: 400-131514-1

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335850/2-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			000.4998 g	50 mL	335850	12/21/16 13:09	KWN	TAL PEN
Total/NA	Analysis	6010B		1			336475	12/23/16 13:36	RJB	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335890/2-A
Date Collected: N/A
Matrix: Solid
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5.00 g	335890	12/17/16 18:30	RS	TAL PEN
Total/NA	Analysis	8260B		100	5 mL	5 mL	335860	12/21/16 10:03	RS	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335918/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	335918	12/21/16 10:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			336262	12/23/16 12:30	KJA	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-335938/2-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			50 mL	50 mL	335938	12/21/16 11:28	KWN	TAL PEN
Total Recoverable	Analysis	6010B		1			336250	12/22/16 19:27	RJB	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-336235/1002
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	336235	12/23/16 08:23	CLN	TAL PEN

Client Sample ID: Lab Control Sample
Lab Sample ID: LCS 400-336493/15-A
Date Collected: N/A
Matrix: Water
Date Received: N/A

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7470A			40 mL	40 mL	336493	12/27/16 09:19	JAP	TAL PEN
Total/NA	Analysis	7470A		1			337052	12/30/16 13:57	JAP	TAL PEN

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: Shell Station

TestAmerica Job ID: 400-131514-1

Client Sample ID: Lab Control Sample Dup

Date Collected: N/A
Date Received: N/A

Lab Sample ID: LCSD 400-335918/3-A

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3520C			1000 mL	1 mL	335918	12/21/16 10:31	KLR	TAL PEN
Total/NA	Analysis	8270D		1			336262	12/23/16 13:04	KJA	TAL PEN

Client Sample ID: B-1 0'-11'

Date Collected: 12/14/16 12:55
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-1 MS

Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.17 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			336346	12/23/16 15:42	KJA	TAL PEN

Client Sample ID: B-1 0'-11'

Date Collected: 12/14/16 12:55
Date Received: 12/14/16 15:15

Lab Sample ID: 400-131514-1 MSD

Matrix: Solid
Percent Solids: 92.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.14 g	1.0 mL	335631	12/19/16 15:36	RDT	TAL PEN
Total/NA	Analysis	8270D		1			335925	12/21/16 21:07	VC1	TAL PEN

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TestAmerica Pensacola
3355 McLemore Drive
Pensacola, FL 32514
Phone (850) 474-1001 Fax (850) 478-2671

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Melissa M. Montgomery	Lab PM: Nance, Mike M	Carrier Tracking No(s):	COC No: 400-61292-25876.1
Client Contact: Ms. Melissa Montgomery	Phone: 251-665-5479	E-Mail: mike.nance@testamericainc.com		Page: Page 1 of 1
Company: Thompson Engineering Inc		Analysis Requested		Job #:
Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: Standard			Preservation Codes:
City: Mobile	TAT Requested (days): Standard			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)
State, Zip: AL, 36606				
Phone: 251-666-2443(Tel) 251-665-5505(Fax)	PO #: Purchase Order not required			Other:
Email: mmontgomery@thompsonengineering.com	WO #: 15-1101-0043			
Project Name: Shell Station	Project #: 40003023			
Site:	SSOW#:			

400-131514 COC

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B - Target Compound List	8270D - TCL Semivolatiles List from CLPOLM4.2	6010B, 7471B	8260B - (MOD) tcl list of compounds	6010B, 7470A	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	A	D		
B-1 0'-11'	12/14/16	1255	C	Solid	N	N	1	1	1	0	0	3	VOC was a grab.
SB-1 0'-11.5'	12/14/16	1325	C	Solid	N	N	1	1	1	0	0	3	VOC was grab
SB-2 0'-11'	12/14/16	1350	C	Solid	N	N	1	1	1	0	0	3	VOC was grab
SB-3 0'-10'	12/14/16	1415	C	Solid	N	N	1	1	1	0	0	3	VOC was grab.
TW-1	12/14/16	1431	G	Water	N	N	0	4	0	3	1	8	
				Water									
				Water									
				Water									

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☑ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☑ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	Melissa M. Montgomery	12/14/2016 1505	Thompson Eng		12/14/16 1505	Thompson Eng
2		12/14/16 1515	Thompson		12-14-16 15:15	TA
3	Relinquished by:	Date/Time:	Company	Received by:	12-14-16 1515	TK

Custody Seals Intact: △ Yes △ No

Custody Seal No.:

Cooler Temperature(s) °C and Other Remarks: 400-131514 4.9°C IR 55 92

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 Coliseum Boulevard, Montgomery, Alabama 36130-3050

Bureau of Materials and Tests
3700 Fairground Road, Montgomery, Alabama 36110
Phone (334) 206-2200 FAX (334) 264-6263

Robert Bentley
Governor

John R. Cooper
Transportation Director

June 11, 2012

Ms. Alfedo Acoff, Coordinator
Environmental Technical Section
ALDOT Design Bureau
1409 Coliseum Boulevard
Montgomery, AL 36130

RE: Clearance Letter, Project No. DPI-0030(005)
I-10 Mobile River Bridge Protective Purchase of 2 properties 257 South Royal Street and 265 South Water Street
Bender Properties
Mobile County

Dear Ms. Acoff:

Information received from your office on May 14, 2012 identified one *(1)* potentially hazardous material site on the above referenced project. Personnel from the Bureau of Materials and Tests Hazardous Materials Section visited the sites on May 21, 2012 and determined that this site would warrant further investigation. We met with our consultant Thompson Engineering onsite to conduct a preliminary investigation at this site on May 29, 2012 and May 30, 2012. The following are the results of the investigation:

Site #6a - Bender Shipbuilding

This site contains two parcels. One parcel is the former ship building and maintenance facility located on the Mobile River at 265 South Water Street, and the other parcel was an administrative building for the shipbuilding facility located at 257 South Royal Street. The preliminary hazardous materials investigation was conducted at the former ship building and maintenance facility as it warranted further investigation due to past use. There were no visual signs of USTs located at this site; however, the site formerly contained above ground storage tanks *(ASTs)* for gasoline and diesel for which the secondary containment still exists on site. The site also still contains an AST utilized to store used oil. The most recent right-of-way *(ROW)* maps received show that a complete acquisition will be required from this site. A total of fifteen *(15)* borings were advanced within the proposed ROW, with each being advanced to the groundwater table. Temporary monitoring wells were placed in three *(3)* of the borings in order to obtain groundwater samples. The boring and monitoring well locations can be seen in Figure 3 of Thompson Engineering's *Preliminary Investigation* report. Soil samples were taken from 0' to 3' below ground surface *(bgs)* and from 3' bgs to the groundwater table, which was typically at 5' to 6' bgs, for a total of thirty *(30)* samples. Each soil sample and groundwater sample was analyzed for volatile organic compound *(VOCs)*, semi-volatile organic compounds *(SVOCs)*, polychlorinated biphenyls *(PCBs)*, and metals. The results are discussed in Sections 3.2 (soil analytical results) and 3.3 (groundwater analytical results) and the analytical data can be seen in Table 1A through Table 2D of the report. The following is a summary of our findings:

Volatile Organic Compounds (VOCs)
The results show that several of the soil samples had detectable concentrations of several VOC constituents; however, all of the soil and water samples showed concentrations that were either below their respective Alabama Risk Based Corrective Action *(ARBCA)* preliminary screening values *(PSVs)* or were at non-detectable concentrations.

Semi-Volatile Organic Compounds (SVOCs)
The results show that several of the soil samples (B1, B2, B3, B5, B9, B10, B11, B12, B13, B15) had detectable concentrations of several SVOC constituents (benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene) above their respective ARBCA PSVs and the remaining soil samples as well as all groundwater samples had concentrations of each constituent that were either below their respective PSVs or were at non-detectable concentrations.

Polychlorinated Biphenyls (PCBs)
The results show that several of the soil samples (B5, B11) had detectable concentrations of PCBs (PCB-1260) above their respective ARBCA PSVs and the remaining soil samples as well as all groundwater samples had concentrations of each constituent that were either below their respective PSVs or were at non-detectable concentrations.

Inorganics (Metals)
The results show that all of the soil samples (B1 - B15) had detectable concentrations of several inorganics (antimony, arsenic, chromium, copper, lead, mercury, thallium, zinc) and groundwater samples (TW-1, TW-2, TW3) had detectable concentrations of several inorganics (lead, mercury) that were above their respective ARBCA PSVs. The remaining soil samples and groundwater samples had concentrations of each constituent that were either below their respective PSVs or were at non-detectable concentrations.

Conclusions and Recommendations
The preliminary hazardous materials investigation at this site revealed that soil and groundwater contamination are present in some order of magnitude. An accurate estimate of how much potential contaminated media will be required to be managed (if at all) during construction is not yet obtainable due to the fact that the design of the proposed bridge has not be finalized (i.e. pier locations, usage under the bridge, etc.). It is this office's conclusion that this site does not pose a major risk of liability to the Department in terms of the scope of the project, however, once the final bridge design is set an accurate summary of contamination and worker health & safety will have to be reevaluated at this site.

If there is an alignment or design change, please contact this office for a re-evaluation of the project area. If you have any questions please contact David Gatlin at (334) 206-2275.

Yours very truly,

B.E. Cox, Jr., P.E.
Materials and Tests Engineer

By: _____
Adam S. Anderson, P.E.
Environmental Analysis & Compliance Engineer

BEC/ASA/dkg

cc: Mr. Vincent E. Calametti, P.E., 9th Division Engineer
File

thompson
ENGINEERING

PRELIMINARY INVESTIGATION
ALABAMA DEPARTMENT OF TRANSPORTATION
PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
MOBILE COUNTY, ALABAMA

JUNE 8, 2012

Prepared for:

Alabama Department of Transportation
Bureau of Materials and Tests
3700 Fairground Road
Montgomery, Alabama 36610

PROJECT NO.: 12-2116-0039

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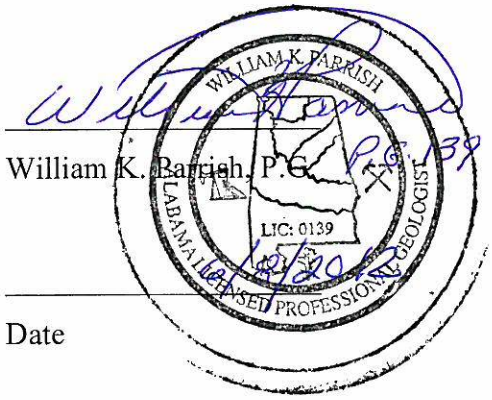
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Report Certification

I certify under penalty of law that I am a Geologist experienced in hydrogeologic investigations. The investigation described in this report was performed by a Geologist experienced in hydrogeologic investigations. The information submitted herein, to the best of my knowledge and belief, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information.



William K. Parrish, P.G.

Date

1.0 INTRODUCTION

The Alabama Department of Transportation (ALDOT) is investigating a potential property purchase for the proposed Interstate 10, (I-10) Mobile River Bridge in Mobile County, Alabama. Thompson Engineering, Inc. (Thompson Engineering) has completed the Preliminary Investigation at the Bender Ship Building and Repair Facility (Figure 1).

The site (Bender Ship Building and Repair Facility) is located at 265 Old Water Street. The site is bounded on the west by Old Water Street and the East by the Mobile River. The site is bordered on the North by Eslava Street and south by Buffalo Marine Services, Inc. (Figure 2). The facility is currently abandoned.

Site observations revealed the presence of several areas of concern that are identified below:

- A secondary containment structure reportedly held an Above Ground Storage Tank (AST). The AST is no longer present.
- A storage location was observed to contain a divided steel tank that is labeled as "Used Oil" and "Antifreeze."
- Another storage location was observed to contain six steel drums, three (3) 30-gallon drums and three (3) 40-gallon drums. The drums were noted to have labeling that identified the contents as a mixture of dichloromethane and tetrachloroethylene or 1,1,1-trichloroethane. The UN Code on the label was UN 2819. The drums were noted to be intact with no visible holes or staining on the concrete at the base of the drums.
- There is a bay area on the east side of the southernmost building that at one time had four hydraulic lifts determined from floor features. A sink was noted to be present in the bay area with drainage to the ground surface along the south side of the building.
- "Oil-like" stains were noted on the ground surface just west of the bulkhead.

- Transformers were noted to be present on the west sides of the property. Three (3) were located at the southwest corner and two (2) were located near the west central property boundary. On the initial site visit, all the transformers were noted to be intact and standing upright. During field investigative activities, two (2) of the transformers at the southwest corner were found to be overturned and the lids removed. An area around the overturned transformers was stained, with an odor present. The fluid contents of the transformers were identified, from labeling on the transformers, as dielectric oil and "certified to contain less than 50 parts per million (PPM) polychlorinated byphenols (PCBs) thus a non-PCB transformer."
- The remainder of the property was noted to have gravel, asphalt, or concrete surface. Wood debris was scattered at random. Old tires were stacked near the bulkhead and dumpsters were located on the premises that were observed to contain paper, cardboard, wood and metal scraps.
- A bulkhead was located along the east property boundary at the Mobile River.

2.0 GEOLOGIC SETTING

Geologic units that occur within the study area range from Tertiary to Quaternary age. Alluvial and terrace deposits of Quaternary Age overlie Tertiary age deposits adjacent to the flood plains of the larger streams and river and along the coastal areas, such as Mobile Bay.

Geologic units of Tertiary Age that are sources of potable groundwater are the Miocene Series Undifferentiated and the Citronelle Formation. The Miocene Series outcrops in central and northern Mobile and Baldwin Counties. The Miocene Series consists of sedimentary deposits of marine and estuarine origin. The sediments consist mainly of laminated to thinly-bedded clays, sands, and sandy clays. The sands range from fine- to coarse-grained and are locally cross bedded. In outcrops, the sands weather to a variety of colors, some distinctly mottled. At some exposures, beds of sand contain gravel and petrified plant fossils, and clays contain carbonized leaf remains.

The Citronelle Formation of Pliocene age overlies the Miocene Series and crops out in central and southern parts of the study area. The formation, which is relatively thin in northern parts of the study area, is about 200 feet thick in the subsurface in the southern part of the study area. The sediments consist of gravelly sands and sandy clays. In many areas, lenses of sandy clay and clayey sand, which range in thickness from 5 to 15 feet, are interbedded with gravelly sand. Sediments along the base of the Citronelle Formation have high clay content, indicating that they were deposited in an estuarine environment, whereas, overlying sediments were deposited by sediment-laden streams.

Pleistocene and Holocene Series of Quaternary age deposits overlie Miocene and Pliocene sediments. Alluvial, low terrace and coastal deposits represent complex beach, dune, lagoonal, estuarine, and deltaic depositional environments. The deposits consist of very fine- to coarse-grained sand that is gravelly in many exposures. Sandy clay is interbedded with the sand at some exposures. The thickness of the alluvial, low terrace

and coastal deposits are estimated to range from 0 to 200 feet, based on the first occurrence of coarse siliclastic sediments.

The Quaternary sand and gravel beds represent buried channel deposits. The width and depth are similar to that of the present river bed sediments. The length of individual sand and gravel beds probably ranges from a few hundred to a few thousand feet. These buried channel deposits are surrounded by silt and clay sediments similar to those being deposited on the present flood plain of the river.

Regional and Site Hydrogeology

The Pliocene-Miocene and the alluvial-coastal aquifer are the major aquifers in the study area. Although the aquifers are lithologically different, they are hydraulically connected and generally respond to stresses as a single aquifer.

Groundwater in the Pliocene-Miocene aquifer occurs in beds of sand and gravel which are lenticular in shape and of limited lateral extent. The sand and gravel beds in the Citronelle Formation and those at shallow depths in the Miocene Series Undifferentiated are hydraulically connected to land surface; therefore, the aquifer is unconfined. At depth, clayey sediments in the Miocene Series are semi-confining which reduces vertical infiltration of water. Thus, the aquifer in deeper portions of the Miocene Series responds to short-term pumpage as a confined aquifer. Wells properly constructed in the Pliocene-Miocene aquifer yield from 0.5 to 2.0 million gallons per day (Mgal/d).

The alluvial-coastal aquifer is hydraulically connected to the Pliocene-Miocene aquifer. Properly constructed wells in the alluvial-coastal aquifer have the potential to yield from 0.5 to 1.0 Mgal/d. Most high-yield wells are completed in beds of sand and gravel that originate from coastal deposits and buried river sediments. The buried channels are surrounded by silty and clayey sediments that do not yield significant amounts of water, but do allow slow infiltration of water to the sand and gravel beds. Individual buried channels may be directly connected to the present channels of the Mobile River.

The source of recharge to the aquifers is rainfall, which averages 62 inches per year (in/yr) in the study area. About 28 in/yr of rainfall runs off during and immediately after storms; a small amount of rainfall infiltrates the subsurface as recharge to the aquifers; and the remainder is returned to the atmosphere by evaporation and transpiration of trees and other plants.

Most recharge to the major aquifers in Mobile County occurs within the boundaries of the study area and a small amount is contributed from Miocene outcrop areas to the north.

Groundwater discharges are primarily to streams, water bodies, and wells. Some of the larger groundwater pumping centers in the study area are the cities of Grand Bay, Fairview, Dauphin Island, Theodore, Kushla, LeMoyne, Citronelle, Mt. Vernon, Bayou La Batre, Saraland, and St. Elmo in Mobile County.

In addition to public water supply, substantial quantities of groundwater are used for irrigation. Mobile County has several chemical and paper factories and other industries that use large quantities of groundwater.

Large withdrawals of water from an aquifer often cause a depression in the potentiometric surface of the aquifer. The extent of the depression depends on the amount of water withdrawn and the water-bearing characteristics of the sediments. A large depression exists around the Prichard-Mobile area in Mobile County. Most of the groundwater withdrawals in this area are for industrial purposes. Other smaller depressions occur in the vicinity of some industries along the Mobile River in northern Mobile County. The effects of the depressions are localized because of their proximity to the Mobile River, which is hydraulically connected to the aquifers in the area. The Mobile River has an average annual discharge of about 70,000 cubic feet per second (ft^3/s), which is more than adequate to recharge the aquifers as withdrawals occur.

However, in tidal reaches of the Mobile River, the recharge could introduce saltwater into the aquifer.

Recharge areas for the major aquifers, which include the entire study area, are susceptible to surface contamination. The topography in the study area is flat to low rolling hills. This type of terrain minimizes surface runoff, allowing more time for water to infiltrate into the soil.

Areas that are highly susceptible to contamination from the surface are relatively flat terrain with very permeable soils. Many of these areas are used for intensive row-crop farming where pesticides are used extensively. Along the Mobile River in the northern part of Mobile County, chemical industries are potential sources of contamination to the groundwater. The regions of the study area that are not considered to be highly susceptible to surface contamination are where topographic relief is greater; this promotes increase surface runoff and dispersion and dilution of surface contaminants.

Regions underlain by the alluvial and coastal sediments generally are areas of groundwater discharge; this decreases the likelihood of a contaminant migrating into the deep groundwater system.

Regional and Site Stratigraphy

The Site lies entirely within the East Gulf Coastal Plain physiographic section, Alluvial-Deltaic Plain District and Coastal Lowlands District.

The Alluvial-Deltaic Plain District, which consists of alluvial and terrace deposits from the rivers, are areas with very little relief, and the surface topography ranges in altitude from 100 feet to sea level.

Coastal Lowlands District areas are characterized by flat to gently undulating, locally swampy plains underlain by terrigenous deposits of Holocene and late Pleistocene age. They include the mainland plain indented by many tidal streams and fringed by tidal

marshes and barrier islands. The landward edge of the district is defined by the base of the Pamlico marine scarp at 25 to 30 feet of elevation. The barrier islands and tidal marshes in the area are undergoing continual modification by erosion and deposition.

3.0 PRELIMINARY INVESTIGATION

3.1 Summary of Field Activities

Prior to performing intrusive activities, a utility locate was performed. The utility locate was accomplished through Alabama One Call with confirmation numbers 121-440-140 and 121-440-144 on May 23, 2012. Additionally, a hand auger was used for the first three (3) feet below ground surface (bgs) as an additional precaution prior to advancement of a direct push probe discussed below.

In order to evaluate the observed conditions as well as random other areas on site, fifteen (15) exploratory borings were performed at the project site on May 29 and 30, 2012 (Figure 3). Additionally three (3) of the borings would be used to install temporary wells for the collection of groundwater samples, obtaining depth to groundwater measurements and determining groundwater flow direction. The boring locations were selected by ALDOT and Thompson Engineering personal in the areas of the former AST, used oil and antifreeze storage, solvent storage, former hydraulic lifts, sink drainage, stained soils, and additional locations at random to provide a general assessment of the facility.

For utility clearance, soil borings were initially advanced to a depth of three (3) feet bgs utilizing a stainless steel hand auger. Where concrete or asphalt was present, the direct-push drill rig, Geoprobe®, was used with a concrete bit to advance the boring until reaching soil then the hand auger was used as noted to three feet bgs. The Geoprobe® was then used to advance the probe to terminus of the boring.

Composite soil samples were collected from each boring between 0 to 3 feet bgs and from 3 feet to the top of the water table for a total of thirty (30) samples. Groundwater was encountered at approximately 5 to 6 feet bgs at each boring location.

The soil samples were composited using stainless steel equipment. The samples were then placed into pre-cleaned jars provided by the analytical laboratory (TestAmerica-

Mobile). Upon collection, the samples were placed within an insulated chest packed with ice for transport to the laboratory with attendant chain-of-custody documentation.

Groundwater samples were collected after first developing and purging the wells of three (3) to five (5) well volumes and collecting measurements for pH, temperature, specific conductivity, turbidity and dissolved oxygen. Field measurements are included in Appendix A. Groundwater samples were collected into pre-cleaned jars provided by the analytical laboratory (TestAmerica-Mobile). Upon collection, the samples were placed within an insulated chest packed with ice for transport to the laboratory with attendant chain-of-custody documentation.

The 30 soil and 3 groundwater samples were analyzed for volatile organic carbons (VOCs, EPA Method 8260), semivolatile organic carbons (SVOCs, EPA Method 8270D), polychlorinated biphenyls (PCBs, EPA Method 8081B/8082A), and RCRA metals (EPA Methods 6010C/7471).

In order to reduce the potential for cross-contamination during sampling procedures, all equipment was decontaminated prior to entering the site and between sampling areas utilizing a detergent wash, clean water rinse, distilled water rinse, and pesticide-grade isopropanol rinse followed by a drying period.

During soil sampling, boring location B-1 which is at the entrance to the used oil and antifreeze storage was noted to have a chemical odor. The odor existed from the soil surface to groundwater. This is also the location where a groundwater sample, TW-1, was collected. The groundwater was noted to have a chemical odor and sheen during development. Soil boring location B-9 was noted to have a petroleum-like odor from ground surface to a depth of approximately 6 feet bgs. Soil borings B-10 and B-11 were noted to have a chemical-like odor from ground surface to a depth of approximately 6 feet bgs. All other soil and groundwater samples did not reveal the presence of a chemical or petroleum odor.

An exploratory boring was performed at the location where the transformers had been overturned with a release of the dielectric fluids. The dielectric fluids were noted to be within the gravel to a depth of 3 to 4 inches bgs. No visible evidence or odor was present beyond 4 inches bgs. The area affected by the release of the transformer fluids measured approximately 28 feet by 20 feet or 560 square feet (sq. ft.). At a depth of 4 inches, the total cubic yards (cu. yds.) of material effected in-situ is approximately 7 cu. yds.

Groundwater elevation measurements identified a groundwater flow direction east across the site towards the Mobile River (Figure 4). Groundwater elevation data are provided in Appendix A.

3.2 Laboratory Soil Analytical Results

Soils encountered during the direct push borings consisted of fill soils comprised of mixtures of brown and black silty sands, gravel, metal and rubber fragments, coal, and wood chips. Soil boring logs are presented in Appendix A.

Table 1 is presented as a summary of the soil analytical results compared with the ADEM Preliminary Screening Values (PSVs). If a PSV did not exist, the analytical results were compared to an EPA Regional Screening Levels (RSLs).

Laboratory results for VOCs indicated detectable levels of acetone, carbon disulfide, chlorobenzene, and tetrachloroethene. None of the detections exceeded an ADEM PSV for the respective constituents.

Laboratory results indicated detectable SVOCs; however, reported below their respective ADEM PSVs are acenaphthene, acenaphthalene, anthracene, benzo(g,h,i)perylene, bis(2-ethylhexyl)phthalate, carbazole, chrysene, dibenzofuran, d-n-butyl phthalate, fluoranthene, fluorene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene.

Laboratory results indicated the following detectable SVOCs above an ADEM PSV: Benzo(a)anthracene, benzo(b)fluoranthene, and benzo(k)fluoranthene were reported above their respective residential and commercial PSVs in soil samples B-2 (3'-4.5'), B-3 (0'-3'), B-5 (0'-3'), and B-5 (3'-6'). Benzo(b)fluoranthene was also detected above its residential and commercial PSVs in soil sample B-10 (3'-6'). Dibenz(a,h)anthracene was detected above its residential and commercial PSVs in soil samples B-3 (0'-3'), B-5 (3'-6'), B-9 (3'-6'), and B-10 (3'-6'). Indeno(1,2,3-cd)pyrene was detected above its residential and commercial PSVs in soil samples B-2 (3'-4.5'), B-3 (0'-3')and B-5 (both samples. Benzo(a)pyrene was detected above its residential and commercial PSVs in soil samples B-1 (both samples), B-2 (both samples), B-3 (both samples), B-5 (both samples), B-9 (3'-6'), B-10 (3'-6'), B-11 (both samples), B-12 (0'-3'), B-13 (0'-3'), and B-15 (3'-5.5'). Benzo(a)anthracene and benzo(b)fluoranthene were detected above their ADEM residential PSVs but below their commercial PSVs in soil samples B-1 (3'-11'), B-2 (0'-3'), B-3 (3'-5.5'), B-9 (3'-6'), B-11 (3'-6'), B-12 (0'-3'), B-13 (0'-3'), and B-15 (3'-5.5'). Benzo(a)anthracene was also reported above its residential PSV in soil sample B-10 (3'-6'). Benzo(b)fluoranthene was also reported above its residential PSV in soil samples B-1 (0'-3') and B-11 (0'-3'). Benzo(k)fluoranthene was reported above its residential PSV but below its commercial PSV in soil samples B-2 (0'-3'), B-3 (3'-5.5'), B-10 (3'-6'), and B-11 (3'-6'). Indeno(1,2,3-cd) pyrene concentrations at soil samples B-2 (0'-3'), B-3 (3'-5.5'), B-10 (3'-6'), and B-11 (3'-6') exceeded the residential PSV but were below the commercial PSV. The SVOCs that are prevalent in the soil column above a PSV, i.e., benzo(a)anthracene, benzo(a)pyrene, benzo(b)flouranthene, benzo(k)flouranthene, dibenz(a,h)anthracene and indeno(1,2,3-cd)pyrene, are in a subset identified as polynuclear aromatic hydrocarbons (PAHs) and recognized as carcinogenic and thus have a lower screening threshold. Figures 5 and 6 illustrate the detectable SVOCs that exceeded an ADEM PSV for the 0'-3' and >3' intervals, respectively.

The polychlorinated byphenol (PCB) 1260 was the only PCB detected. PCB 1260 exceeded the residential PSV, but not a commercial PSV, at sample locations B-5 (0'-3') and B-11 (0'-3'). Figure 7 illustrates the detectable PCB that exceeded the ADEM PSV.

Laboratory results for inorganics indicated detectable levels of antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, thallium, and zinc. Antimony, chromium, copper, thallium, and zinc exceeded a residential PSV but not a commercial PSV. Arsenic was reported above both the residential and commercial PSVs in all 30 soil sample locations. Mercury was reported above the residential PSV in soil samples B-1 (3'-11'), B-3 (0'-3'), B-11 (0'-3'), B-12 (0'-3'), and B-14 (3'-6'). Mercury was reported above both the residential and commercial PSVs in soil sample B-5 (3'-6'). Lead was reported above the residential PSV in soil samples B-3 (0'-3'), B-5 (3'-6'), B-11 (both samples), B-12 (0'-3'), B-13 (0'-3') and B-14 (3'-6'). Lead was reported above both the residential and commercial PSVs in soil sample B-4 (0'-3'). Figures 8 and 9 illustrate the detectable inorganics that exceeded an ADEM PSV for the 0'-3' and >3' intervals, respectively.

All laboratory analyses results were provided by TestAmerica, whose reports are provided in Appendix B (Log Nos.: 700-67982-1 and 700-68015-1).

3.3 Laboratory Groundwater Analytical Results

Groundwater analytical findings identified detectable levels of inorganics. VOCs, SVOCs, and PCBs were not detected in groundwater. The inorganics detected are copper, lead, mercury and zinc. Copper and zinc were detected at all three temporary well locations and did not exceed a PSV. Lead was detected at all three temporary well locations. TW-1 identified a concentration of 0.29 mg/L, TW-2 a concentration of 0.15 mg/L and TW-3 with a concentration of 0.22 mg/L. Lead exceeded the PSV of 0.015 mg/L at each location by one order of magnitude. Mercury was detected at TW-1 with a concentration of 0.79 mg/L and at TW-2 with a concentration of 0.35 mg/L each exceeding the PSV for mercury of 0.002 mg/L by two orders of magnitude.

All laboratory analyses results were provided by TestAmerica, whose reports are provided in Appendix B (Log Nos.: 700-67982-1). Table 2 is presented as a summary of

the groundwater analytical results compared with the ADEM PSVs. Figure 10 illustrates the detectable inorganics that exceed an ADEM PSV.

4.0 CONCLUSIONS

- Based on the visual identification of the soil during this investigation, the soil consisted of a fill consisting of a mixture of silty sands, gravel, oyster shells, metal and rubber fragments and wood.
- Locations B-1/TW-1, B-9, B-10 and B-11 exhibited the presence of chemical or petroleum odors.
- Groundwater flow is towards the east across the site towards the Mobile River.
- Detectable concentrations of the VOCs in soil: acetone, carbon disulfide, chlorobenzene, and tetrachloroethene; however, none of the detections exceeded a PSV for the respective constituents.
- Detectable concentrations of the SVOCs in soil: acenaphthene, acenaphthalene, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)flouranthene, benzo(g,h,i)perylene, benzo(k)flouranthene, bis(2-ethylhexyl)phthalate, carbazole, chrysene, dibenz(a,h)anthracene, dibenzofuran, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenanthrene, and pyrene. Of these benzo(a)anthracene, benzo(a)pyrene, benzo(b)flouranthene, benzo(k)flouranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene exceeded a residential and commercial PSV.
- Detectable concentrations of PCB 1260 in soil exceed its residential PSV at two locations.
- Detectable concentrations of inorganics in soil: antimony, arsenic, beryllium, cadmium, chromium, copper, lead, mercury, nickel, selenium, thallium, and zinc. Antimony, arsenic, chromium, copper, lead, mercury, thallium, and zinc exceeded either a residential or commercial PSV.
- The amount of soil that is estimated as being effected by constituents, i.e., SVOCs, PCBs and inorganics, exceeding risk based PSVs is conservatively estimated as approximately 9,000 cubic yards.
- Detectable concentrations of inorganics in groundwater: copper, lead, mercury, and zinc. Lead is the only constituent exceeding its respective PSV at all three temporary

well locations and mercury exceeding its respective PSV at temporary well locations TW-1 and TW-2.

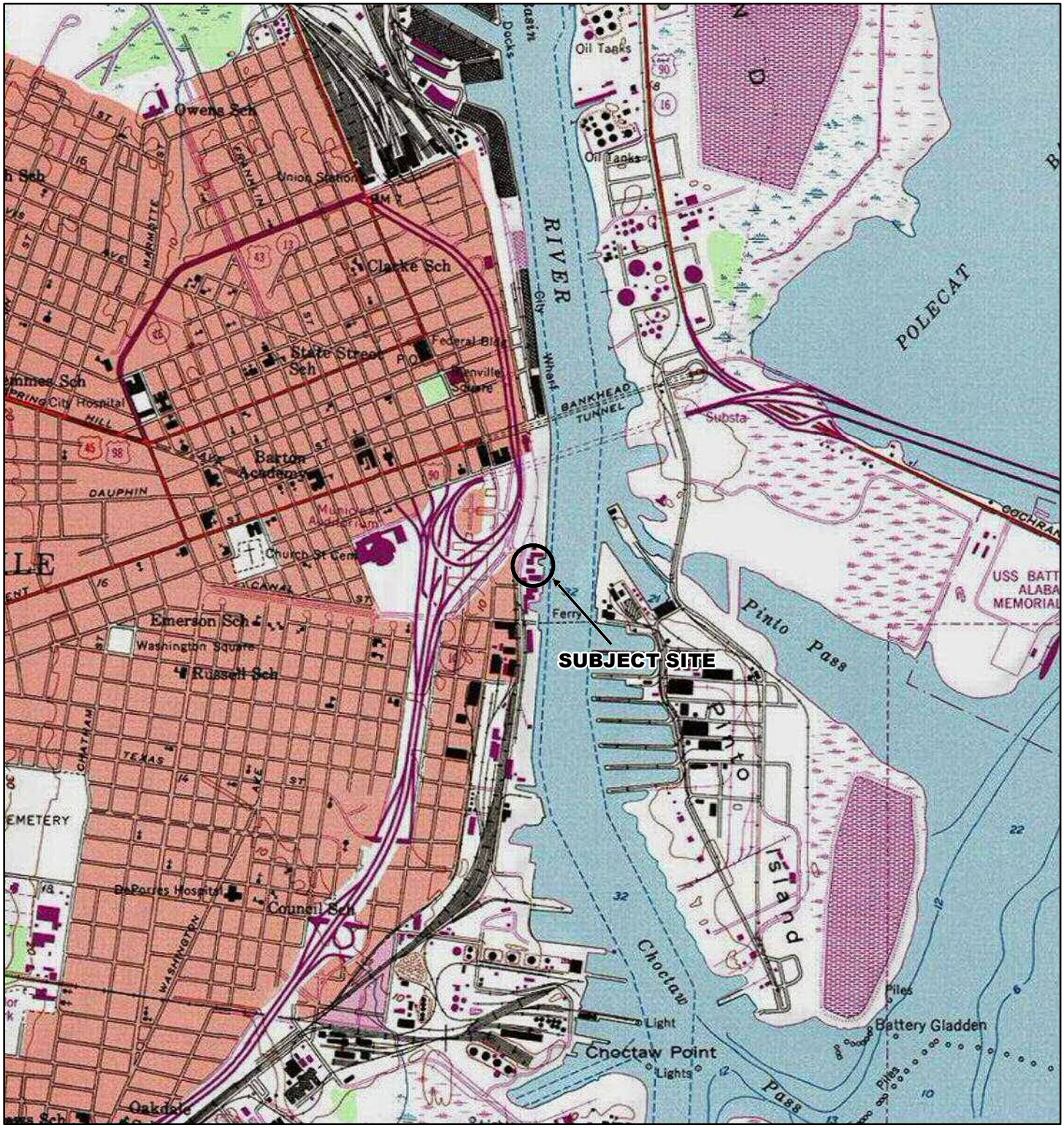
- No detectable concentrations of VOCs, SVOCs or PCBs in groundwater samples.
- The presence of SVOCs and PCBs in soil but not detectable in groundwater demonstrates that they are non-mobile with a high affinity to adhere to the soil particles and not easily transported to the groundwater.
- The area observed to have dielectric fluid on the soil surface from overturned transformer should be excavated and consist of an estimated in-situ volume of 7 cubic yards.

5.0 RECOMMENDATIONS

Based on review of the analytical results of the soil samples collected on May 29 and 30, 2012, it is Thompson Engineering's opinion that chemical constituents comprised primarily of SVOCs, some inorganics, and PCBs exist in the soil at concentrations that may pose a risk to human health. These risks can be minimized through the use of engineering controls such as placing a gravel, asphalt or concrete surface over contaminated areas of the site. This will remove exposure pathways (inhalation and/or dermal contact) and significantly reduce the ability of constituents to migrate to groundwater due to infiltration during rainfall events. Construction activities that involve subsurface or intrusive activities could result in an exposure pathway for construction workers.

Because the PAHs that are evident throughout the soil column i.e., ground surface to top of water table, are carcinogenic, the screening levels are lower and their comparison screening values as demonstrated on the analytical data tables show levels above a PSV. In the event that construction activities occur that involve exposures of subsurface soils to a construction worker, testing of soils should be performed for PAHs and inorganics to identify appropriate personal protective equipment (PPE). Additionally if soils require excavation and removal from the site, testing should also be performed to determine proper disposal at either a Subtitle D Solid Waste Facility or Subtitle C Hazardous Waste Facility under proper manifest.

FIGURES



1:24,000

0 1 2 Miles

0 2,000 4,000 6,000 Feet

1 in = 2,000 ft

N

USGS Mobile, Alabama Quadrangle - Contour Interval 10 Feet, Published 1982

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MOBILE COUNTY, ALABAMA

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FIGURE 1
SITE VICINITY MAP

PROJECT NO.:	DATE:
12-2116-0039	JUNE 2012

P:\2012\2116\12-2116-0039 ALDOT Mobile River Bridge\DRAWINGS\MXD\FIG1.mxd



1:1,200

0 0.025 0.05 0.075 Miles

0 100 200 300 Feet

1 in = 100 ft

N

Mobile, Alabama Aerial Photography, February 2010 - 0.5 Foot Resolution

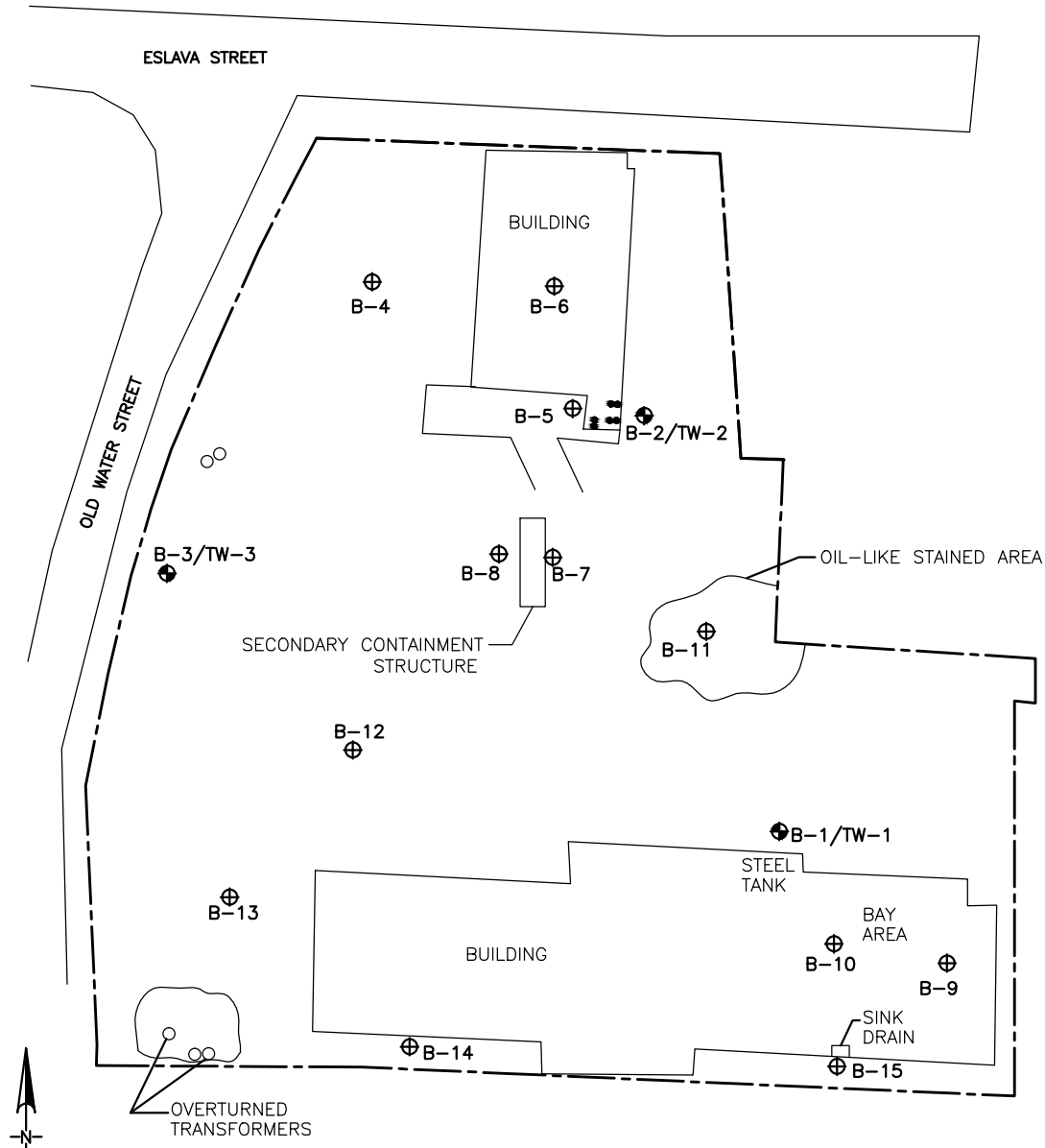
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I-10 MOBILE RIVER BRIDGE
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FIGURE 2
AERIAL PHOTOGRAPH

PROJECT NO.:	DATE:
12-2116-0039	JUNE 2012

P:\2012\2116\12-2116-0039 ALDOT Mobile River Bridge\DRAWINGS\MXD\FIG2.mxd



NOTES:
The information depicted is intended to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

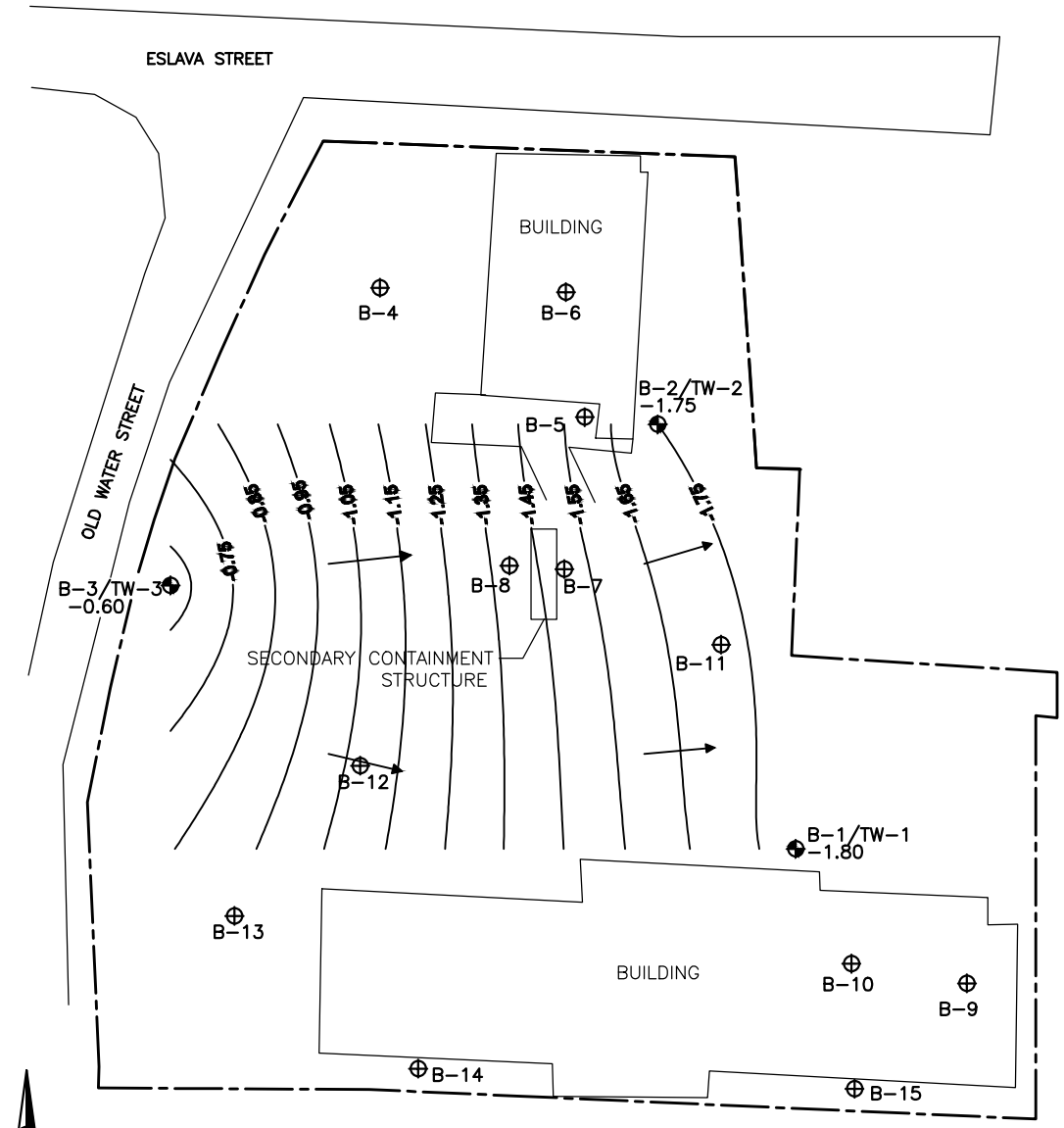
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PROJECT NO.: DPI-0030(005)
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FIGURE 3
BORING LOCATION PLAN

PROJECT NO: 12-2116-0039

DATE: JUNE 2012



NOTES:
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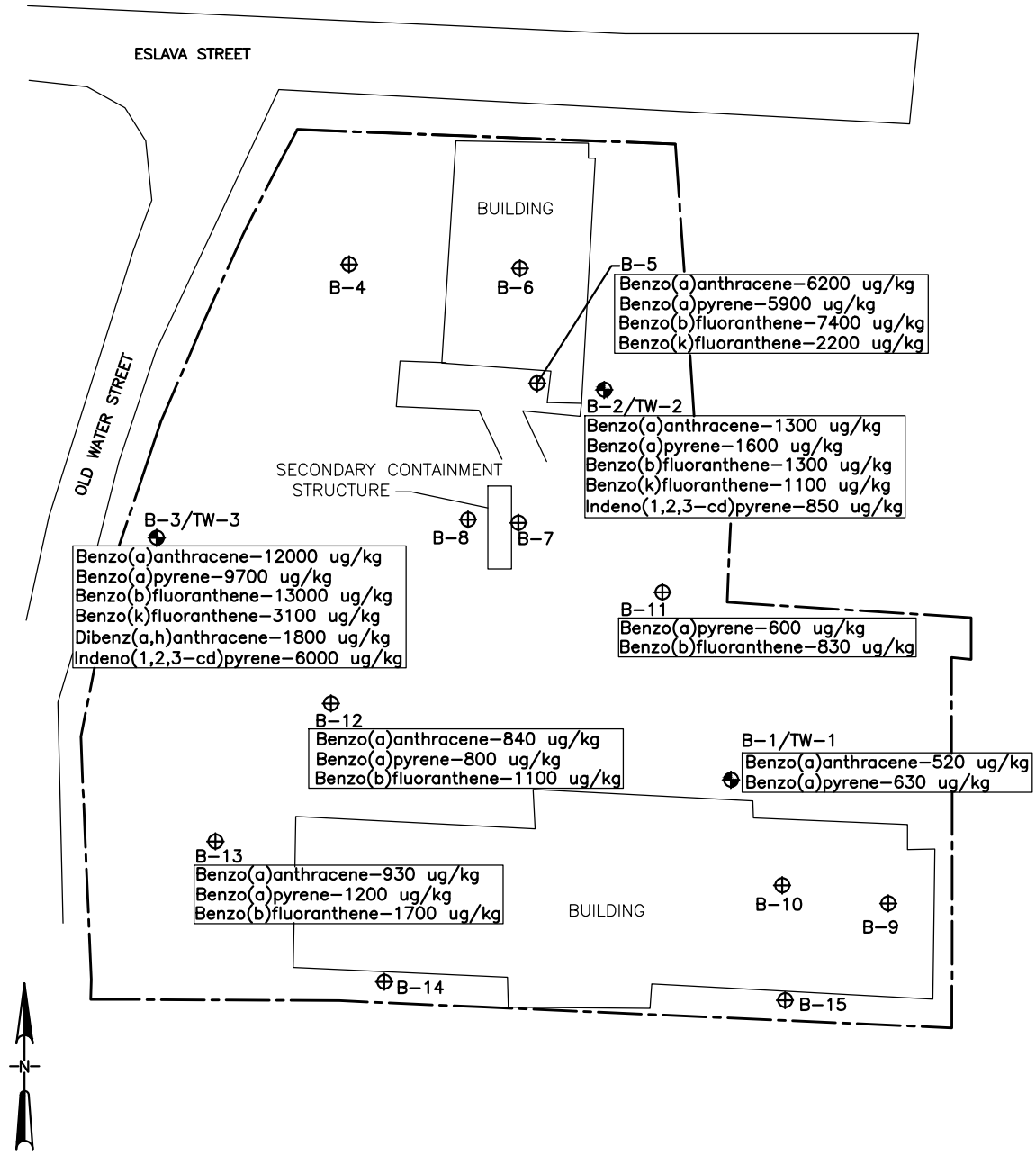
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FIGURE 4
GROUNDWATER POTENTIOMETRIC SURFACE PLAN
MAY 30, 2012

PROJECT NO: 12-2116-0039

DATE: JUNE 2012



APPROXIMATE SCALE

0 15 30 60 FT.

LEGEND:

Boring Location

Temporary Well Location

NOTE:
The information depicted is intended to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

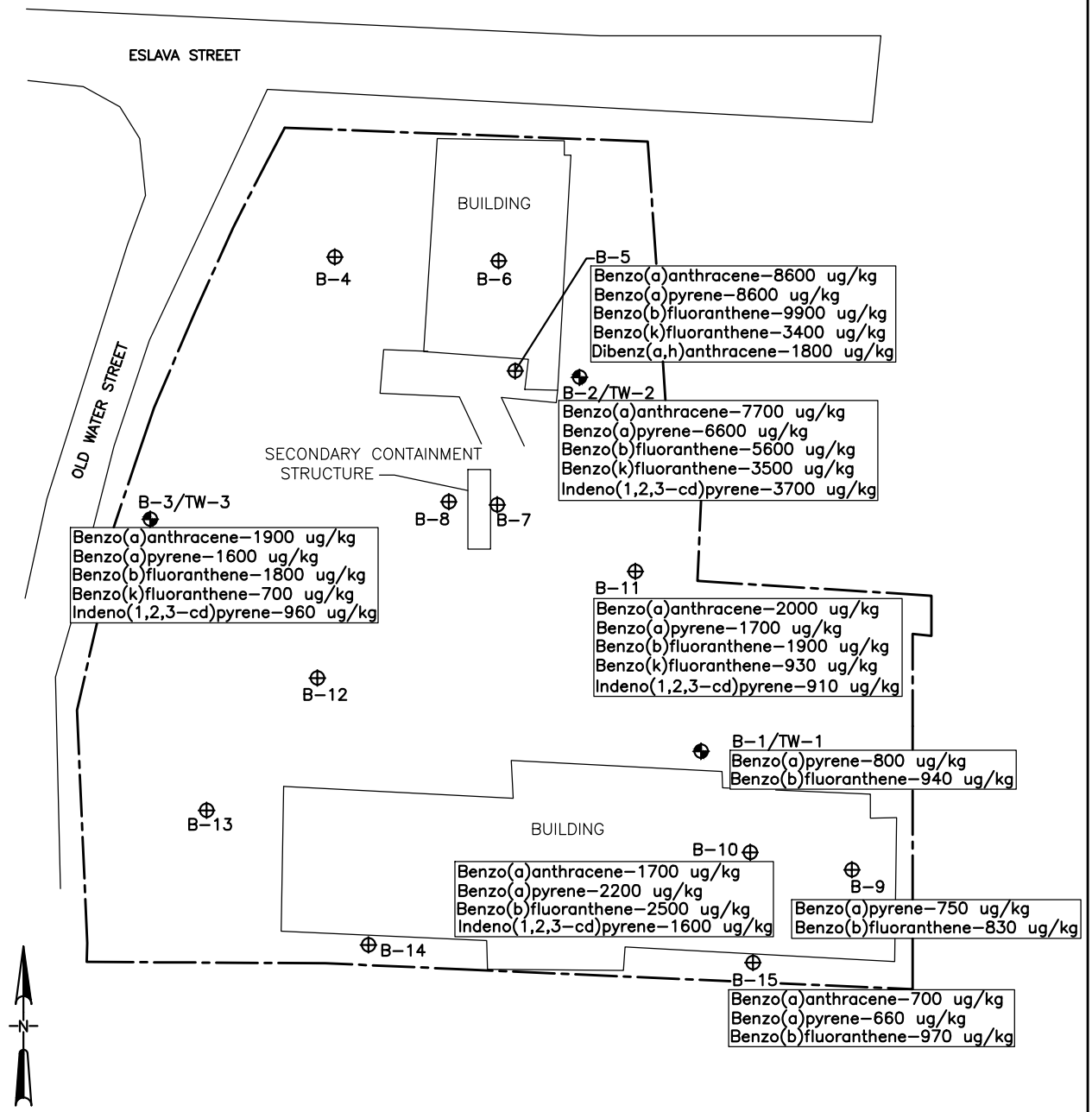
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FIGURE 5
SVOC SOIL ANALYTICAL DATA
EXCEEDING AN ADEM PSV
0' to 3' bgs

PROJECT NO: 12-2116-0039

DATE: JUNE 2012



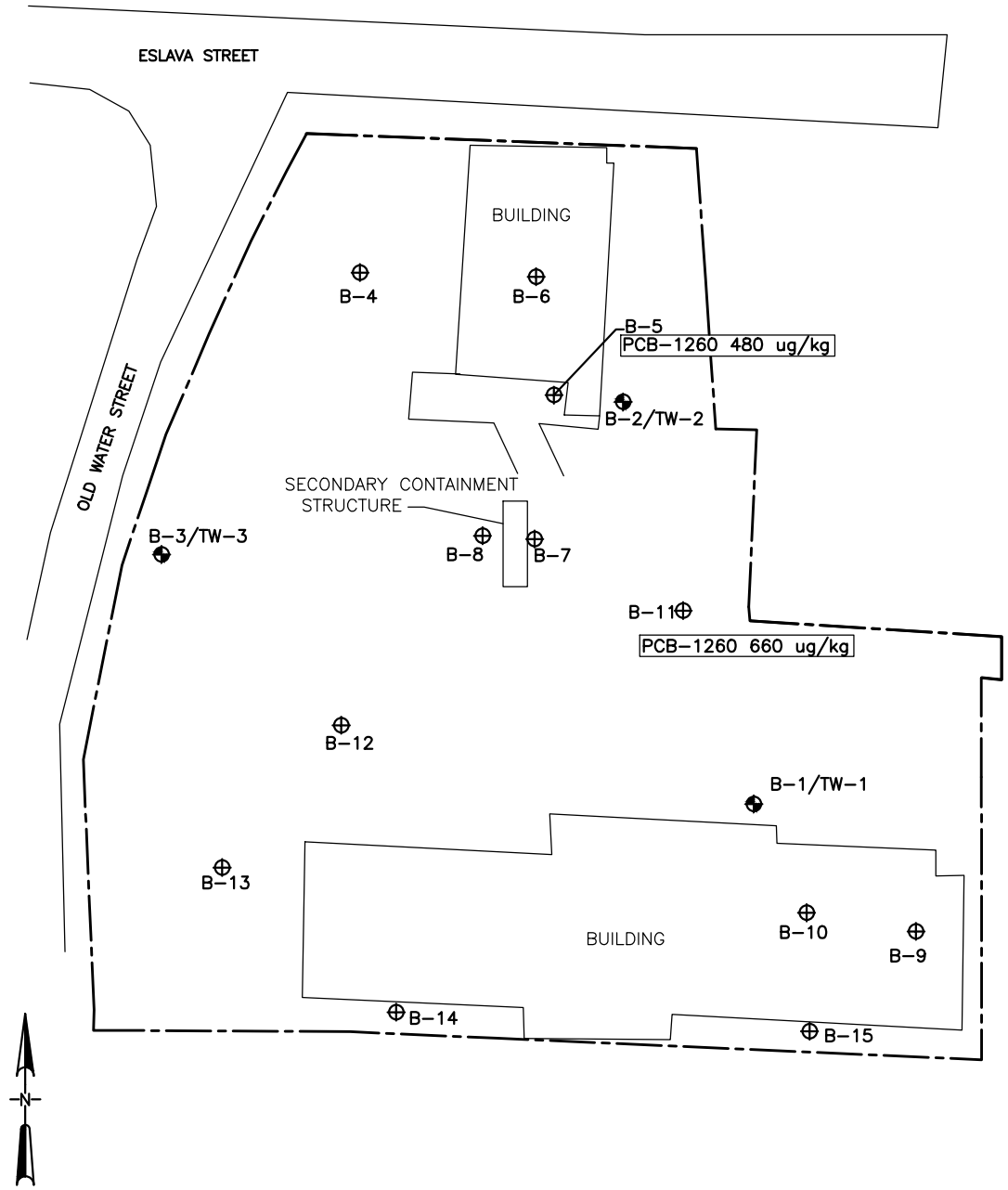
NOTE:
The information depicted is intended to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

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FIGURE 6
SVOC SOIL ANALYTICAL DATA
EXCEEDING AN ADEM PSV OR EPA RSL
>3' bgs

PROJECT NO: 12-2116-0039
DATE: JUNE 2012



APPROXIMATE SCALE

0 15 30 60 FT.

LEGEND:

Boring Location

Temporary Well Location

NOTE:
The information depicted is intended to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

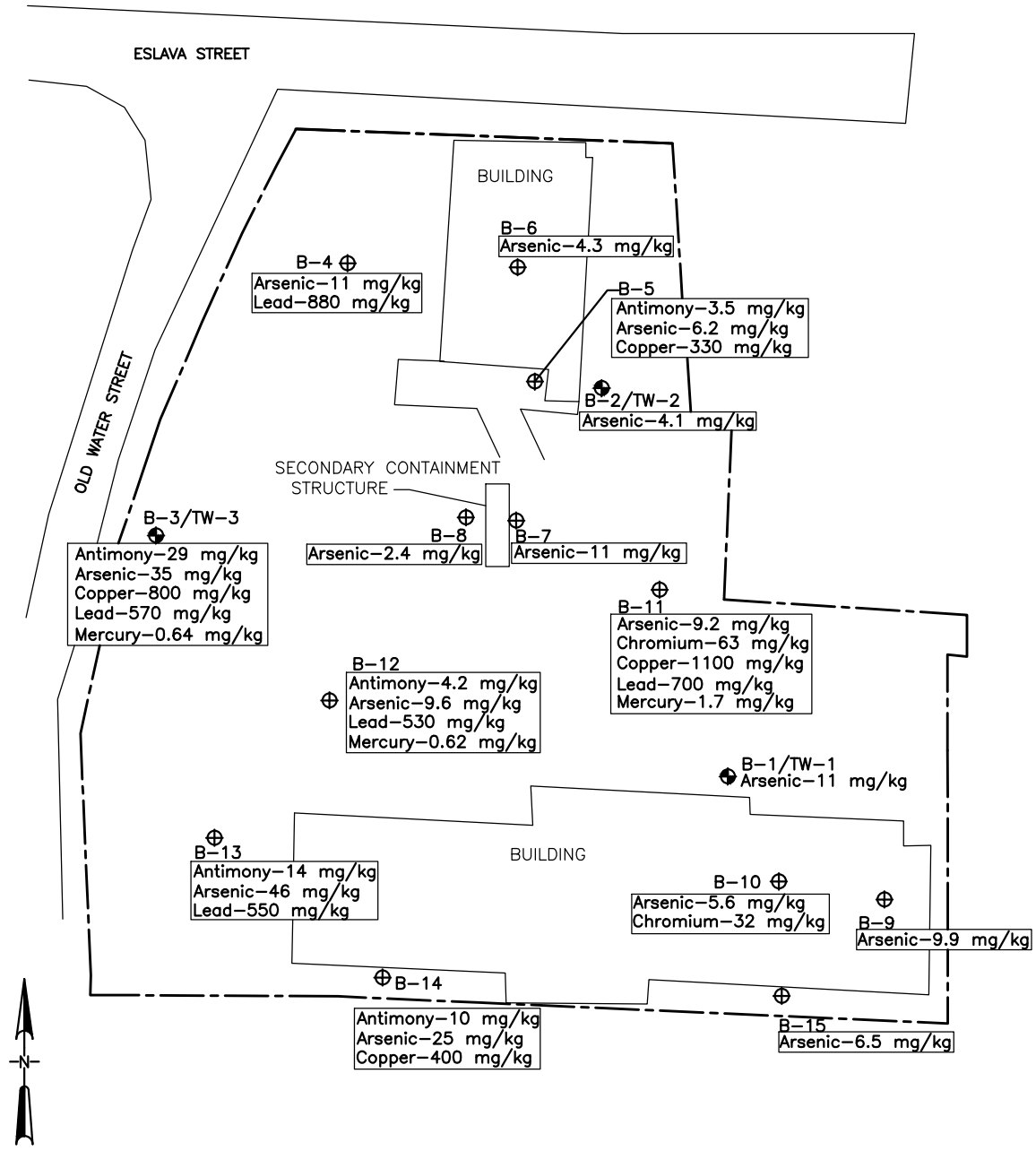
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PROJECT NO.: DPI-0030(005)
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FIGURE 7
PCB SOIL ANALYTICAL DATA
EXCEEDING AN ADEM PSV
0' to 3' bgs

PROJECT NO: 12-2116-0039

DATE: JUNE 2012



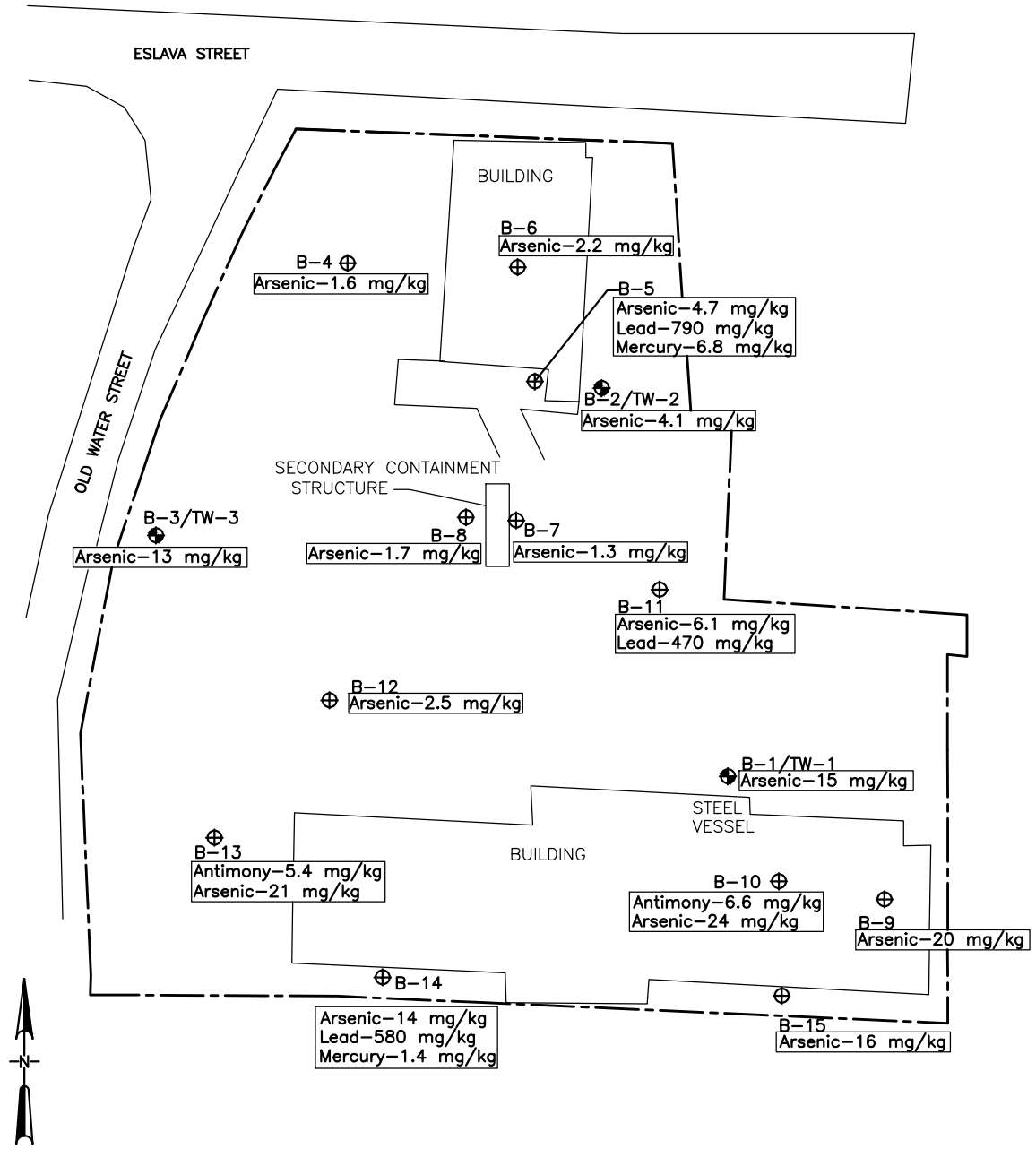
NOTE:
The information depicted is intended to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

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FIGURE 8
INORGANIC SOIL ANALYTICAL DATA
EXCEEDING AN ADEM PSV
0' to 3' bgs

PROJECT NO: 12-2116-0039
DATE: JUNE 2012



APPROXIMATE SCALE

0 15 30 60 FT.

LEGEND:

⊕ Boring Location

⊕ Temporary Well Location

NOTE:
The information depicted is intended to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

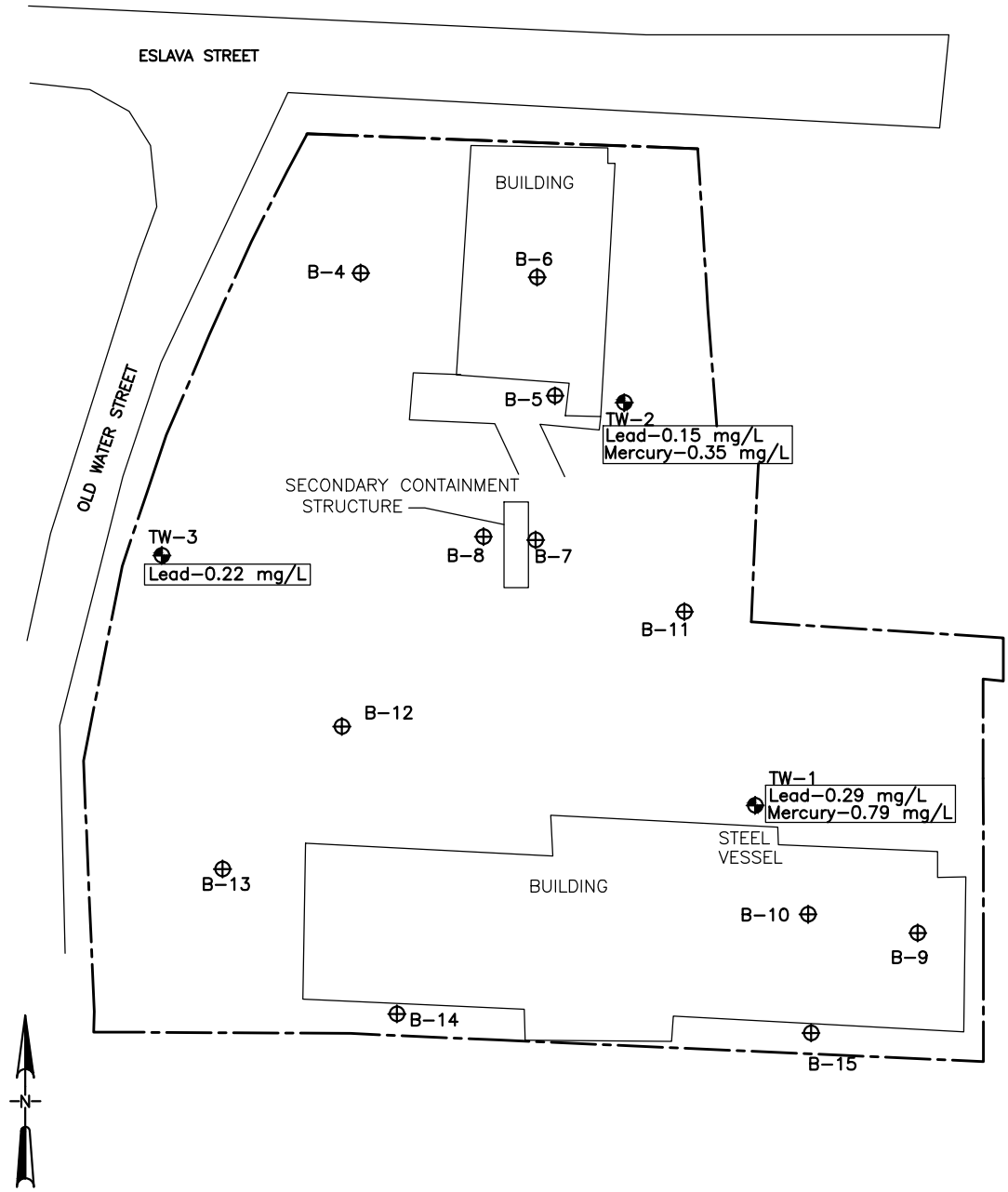
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FIGURE 9
INORGANIC SOIL ANALYTICAL DATA
EXCEEDING AN ADEM PSV
>3' bgs

PROJECT NO: 12-2116-0039

DATE: JUNE 2012



APPROXIMATE SCALE

0 15 30 60 FT.

LEGEND:

Boring Location

Temporary Well Location

NOTE:
The information depicted is intended to provide visual aid within the context of this report and should not be used as a sole reference in precise dimensioning of features indicated.

ALABAMA DEPARTMENT OF TRANSPORTATION
PROJECT NO.: DPI-0030(005)
I-10 MOBILE RIVER BRIDGE
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FIGURE 10
INORGANIC GROUNDWATER ANALYTICAL DATA EXCEEDING AN ADEM PSV

PROJECT NO: 12-2116-0039

DATE: JUNE 2012

TABLES

Table 1A
Soil Analytical Data - VOCs
Bender Shipbuilding and Repair Facility
Preliminary Investigation
12-2116-0039

Alabama Risk Based Corrective Action Preliminary Screening Values [1]					Sample Location ID																												
CONTAMINANT	**CAS Number**	**Units**	**Residential**	**Commercial**	**B-1 5.29.12 0'-3'**	**B-1 5.29.12 3'-11'**	**B-2 5.29.12 0'-3'**	**B-2 5.29.12 3'-4.5'**	**B-3 5.29.12 0'-3'**	**B-3 5.29.12 3'-5.5'**	**B-4 5.29.12 0'-3'**	**B-4 5.29.12 3'-6'**	**B-5 5.29.12 0'-3'**	**B-5 5.29.12 3'-6'**	**B-6 5.29.12 0'-3'**	**B-6 5.29.12 3'-6'**	**B-7 5.29.12 0'-3'**	**B-7 5.29.12 3'-6'**	**B-8 5.29.12 0'-3'**	**B-8 5.29.12 3'-6'**	**B-9 5.30.12 0'-3'**	**B-9 5.30.12 3'-6'**	**B-10 5.30.12 0'-3'**	**B-10 5.30.12 3'-6'**	**B-11 5.30.12 0'-3'**	**B-11 5.30.12 3'-6'**	**B-12 5.30.12 0'-3'**	**B-12 5.30.12 3'-6'**	**B-13 5.30.12 0'-3'**	**B-13 5.30.12 3'-6'**	**B-14 5.30.12 0'-3'**	**B-14 5.30.12 3'-6'**	**B-15 5.30.12 0'-3'**	**B-15 5.30.12 3'-5.5'**
Acetone	67-64-1	ug/kg	1400000	5400000	<60	210	<55	<66	<53	120	<58	<62	<60	<65	<60	<62	<54	<60	<53	<59	<2700	<3100	<55	<3600	<2700	86	<56	<64	<56	120	<60	160	<57	84
Benzene	71-43-2	ug/kg	640	1400	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<310	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Bromoform	75-25-2	ug/kg	62000	220000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<310	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Bromomethane	74-83-9	ug/kg	390	1300	<12	<19	<11	<13	<11	<13	<12	<12	<12	<13	<12	<12	<11	<12	<11	<12	<540	<630	<11	<710	<540	<14	<11	<13	<11	<13	<12	<16	<11	<13
2-Butanone (MEK)	78-93-3	ug/kg	2200000	11000000	<30	<46	<27	<33	<27	<33	<29	<31	<30	<33	<30	<31	<27	<30	<26	<29	<1300	<1600	<28	<1800	<1300	<35	<28	<32	<28	<33	<30	<39	<29	<32
Carbon disulfide	75-15-0	ug/kg	36000	720000	<6.0	24	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Carbon tetrachloride	56-23-5	ug/kg	250	550	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Chlorobenzene	108-90-7	ug/kg	15000	53000	14	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Chlorodibromomethane		ug/kg	None	None	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Chloroethane	75-00-3	ug/kg	3000	6500	<12	<19	<11	<13	<11	<13	<12	<12	<12	<13	<12	<12	<11	<12	<11	<12	<540	<630	<11	<710	<540	<14	<11	<13	<11	<13	<12	<16	<11	<13
Chloroform	67-66-3	ug/kg	220	470	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Chloromethane	74-87-3	ug/kg	47000	160000	<12	<19	<11	<13	<11	<13	<12	<12	<12	<13	<12	<12	<11	<12	<11	<12	<540	<630	<11	<710	<540	<14	<11	<13	<11	<13	<12	<16	<11	<13
(cis)-1,2-Dichloroethene	156-59-2	ug/kg	4300	15000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
(cis)-1,3-Dichloropropene	542-75-6	ug/kg	780	1800	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,2-Dichlorobenzene	95-50-1	ug/kg	600000	600000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,3-Dichlorobenzene	541-73-1	ug/kg	53000	600000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,4-Dichlorobenzene	106-46-7	ug/kg	3400	7900	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Dibromochloromethane	124-48-1	ug/kg	1100	2600	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,1-Dichloroethane	75-34-3	ug/kg	51000	170000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,2-Dichloroethane	107-06-2	ug/kg	51000	170000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,1-Dichloroethene	75-35-4	ug/kg	12000	41000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,2-Dichloropropane	78-87-5	ug/kg	340	740	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Ethylbenzene	100-41-4	ug/kg	400000	400000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
2-Hexanone	591-78-6	ug/kg	210000[2]	1400000[2]	<30	<46	<27	<33	<27	<33	<29	<31	<30	<33	<30	<31	<27	<30	<26	<29	<1300	<1600	<28	<1800	<1300	<35	<28	<32	<28	<33	<30	<39	<29	<32
Methylene chloride	75-09-2	ug/kg	9100	21000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
2-Methyl-2-pentanone (MIBK)	108-10-1	ug/kg	530000	4700000	<30	<46	<27	<33	<27	<33	<29	<31	<30	<33	<30	<31	<27	<30	<26	<29	<1300	<1600	<28	<1800	<1300	<35	<28	<32	<28	<33	<30	<39	<29	<32
m-Xylene & p-Xylene	106-42-3	ug/kg	590000[2]	2500000[2]	<12	<19	<11	<13	<11	<13	<12	<12	<12	<13	<12	<12	<11	<12	<11	<12	<540	<630	<11	<710	<540	<14	<11	<13	<11	<13	<12	<16	<11	<13
o-Xylene	95-47-6	ug/kg	690000[2]	3000000[2]	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Styrene	160-42-5	ug/kg	1700000	1700000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg	3200	7300	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Tetrachloroethene	127-18-4	ug/kg	480	1300	6.9	14	<5.5	9.6	<5.3	<6.6	<5.8	7.3	<6.0	<6.5	6.9	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	9.8	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Toluene	108-88-3	ug/kg	520000	520000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
(trans)-1,2-Dichloroethene	156-60-5	ug/kg	6900	23000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
(trans)-1,3-Dichloropropene	542-75-6	ug/kg	780	1800	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,1,1-Trichloroethane	71-55-6	ug/kg	1200000	1200000	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
1,1,2-Trichloroethane	79-00-5	ug/kg	730	1600	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Trichloroethene (TCE)	79-01-6	ug/kg	53	110	<6.0	<9.3	<5.5	<6.6	<5.3	<6.6	<5.8	<6.2	<6.0	<6.5	<6.0	<6.2	<5.4	<6.0	<5.3	<5.9	<270	<630	<5.5	<360	<270	<6.9	<5.6	<6.4	<5.6	<6.5	<6.0	<7.9	<5.7	<6.3
Vinyl chloride	75-01-4	ug/kg	79	750	<12	<19	<11	<13	<11	<13	<12	<12	<12	<13	<12	<12	<11	<12	<11	<12	<540	<630	<11	<710	<540	<14	<11	<13	<11	<13	<12	<16	<11	<13
Xylenes (Total)	1330-20-7	ug/kg	10000	27000	<18	<28	<16	<20	<16	<20	<17	<19	<18	<20	<18	<19	<16	<18	<16	<18	<810	<940	<17	<1100	<800	<21	<17	<19	<17	<20	<18	<24	<17	<19

1. Alabama Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential and Commerical soil, April 2008.
2. U.S. EPA Region 9 Regional Screening Level (RSL) for Residential and Commerical soil, April 2012.
- ug/kg – micrograms per kilograms.

Table 1B
Soil Analytical Data-SVOCs
Bender Shipbuilding and Repair Facility
Preliminary Investigation
12-2116-0039

Alabama Risk Based Corrective Action Preliminary Screening Values [1]					Sample Location ID																													
CONTAMINANT	**CAS Number**	**Units**	**Residential**	**Commercial**	**B-1 5.29.12 0'-3'**	**B-1 5.29.12 3'-11'**	**B-2 5.29.12 0'-3'**	**B-2 5.29.12 3'-4.5'**	**B-3 5.29.12 0'-3'**	**B-3 5.29.12 3'-5.5'**	**B-4 5.29.12 0'-3'**	**B-4 5.29.12 3'-6'**	**B-5 5.29.12 0'-3'**	**B-5 5.29.12 3'-6'**	**B-6 5.29.12 0'-3'**	**B-6 5.29.12 3'-6'**	**B-7 5.29.12 0'-3'**	**B-7 5.29.12 3'-6'**	**B-8 5.29.12 0'-3'**	**B-8 5.29.12 3'-6'**	**B-9 5.30.12 0'-3'**	**B-9 5.30.12 3'-6'**	**B-10 5.30.12 0'-3'**	**B-10 5.30.12 3'-6'**	**B-11 5.30.12 0'-3'**	**B-11 5.30.12 3'-6'**	**B-12 5.30.12 0'-3'**	**B-12 5.30.12 3'-6'**	**B-13 5.30.12 0'-3'**	**B-13 5.30.12 3'-6'**	**B-14 5.30.12 0'-3'**	**B-14 5.30.12 3'-6'**	**B-15 5.30.12 0'-3'**	**B-15 5.30.12 3'-5.5'**
Acenaphthene	83-32-9	ug/kg	370000	2900000	<400	<620	<360	480	2400	520	<400	<410	610	1300	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Acenaphthylene	208-96-8	ug/kg	TBC	TBC	<400	<620	<360	770	<730	<440	<400	<410	530	860	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<3650	<460	<370	<430	<370	<440	<400	<520	<380	<420
Anthracene	120-12-7	ug/kg	2200000	100000000	<400	<620	420	2000	5000	1100	<400	<410	1900	3400	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	500	<370	<430	<370	<440	<400	<520	<380	<420
Benzidine	92-87-5	ug/kg	2.1	7.5	<3200	<5100	<2900	<3600	<6000	<3600	<3200	<3400	<3300	<3600	<3300	<3500	<2900	<3300	<2900	<3200	<2900	<3400	<3000	<3900	<2900	<3800	<3000	<3500	<3100	<3600	<3200	<4300	<3100	<3400
Benzo(a)anthracene	56-55-3	ug/kg	620	2100	<400	**690**	**1300**	**7700**	**12000**	**1900**	<400	<410	**6200**	**8600**	<400	<420	<360	<400	<350	<390	<360	540	<360	**1700**	600	**2000**	**840**	<430	**930**	<440	<400	<520	<380	**700**
Benzo(a)pyrene	50-32-8	ug/kg	62	210	**520**	**800**	**1600**	**6600**	**9700**	**1600**	<400	<410	**5900**	**8600**	<400	<420	<360	<400	<350	<390	<360	**750**	<360	**2200**	**600**	**1700**	**800**	<430	**1200**	<440	<400	<520	<380	**660**
Benzo(b)fluoranthene	205-99-2	ug/kg	620	2100	**630**	**940**	**1300**	**5600**	**13000**	**1800**	450	<410	**7400**	**9900**	<400	<420	<360	<400	<350	<390	<360	**830**	<360	**2500**	**830**	**1900**	**1100**	<430	**1700**	<440	<400	<520	570	**970**
Benzo(g,h,i)perylene	191-24-2	ug/kg	228000	4950000	440	<620	1100	4500	7300	1200	<400	<410	3800	5500	<400	<420	<360	<400	<350	<390	<360	610	<360	1700	420	930	600	<430	770	<440	<400	<520	<380	460
Benzo(k)fluoranthene	207-08-9	ug/kg	620	2100	<400	<620	**1100**	**3500**	**3100**	**700**	<400	<410	**2200**	**3400**	<400	<420	<360	<400	<350	<390	<360	<410	<360	**1000**	370	**930**	420	<430	380	<440	<400	<520	<380	<420
bis(2-chloroethoxy)methane	111-91-1	ug/kg	180000[2]	1800000[2]	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
bis(2-chloroethyl)ether	111-44-4	ug/kg	22	58	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	35000	120000	800	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	540	1100	<360	480	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
4-bromophenyl phenyl ether	101-55-3	ug/kg	None	None	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Butyl benzyl phthalate	85-68-7	ug/kg	1200000	100000000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Carbazole	86-74-8	ug/kg	24000	86000	<400	<620	410	1400	16000	1300	<400	<410	2300	5900	<400	<420	<360	<400	<350	<390	<360	<410	<360	490	<360	550	<370	<430	<370	<440	<400	<520	<380	<420
4-Chloroaniline	106-47-8	ug/kg	24000	250000	<790	<1200	<720	<890	<1500	<890	<790	<830	<790	<870	<800	<850	<710	<800	<700	<770	<720	<830	<730	<940	<720	<930	<740	<850	<750	<880	<790	<1000	<760	<840
4-Chloro-3-methylphenol	59-50-7	ug/kg	None	None	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
2-Chlorophenol	95-57-8	ug/kg	6300	240000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
4-chlorophenyl phenyl ether	7005-72-3	ug/kg	None	None	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Chrysene	218-01-9	ug/kg	62000	210000	500	940	1800	6600	11000	2100	420	<410	<400	9600	<400	<420	<360	<400	<350	<390	<360	630	<360	1800	830	2300	1000	<430	1200	<440	<400	<520	570	930
Dibenz(a,h)anthracene	53-70-3	ug/kg	62	210	<400	<620	<360	<440	**1800**	<440	<400	<410	<400	**1800**	<400	<420	<360	<400	<350	<390	<360	**510**	<360	**510**	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Dibenzofuran	132-64-9	ug/kg	15000	160000	<400	<620	<360	<440	1400	<440	<400	<410	<400	1600	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
3,3'-Dichlorobenzidine	91-94-1	ug/kg	1100	3800	<790	<1200	<720	<890	<1500	<890	<790	<830	<790	<870	<800	<850	<710	<800	<700	<770	<720	<830	<730	<940	<720	<930	<740	<850	<750	<880	<790	<1000	<760	<420
2,4-Dichlorophenol	120-83-2	ug/kg	18000	180000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Diethyl phthalate	84-66-2	ug/kg	4900000	100000000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
2,4-Dimethylphenol	105-67-9	ug/kg	120000	1200000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Dimthyl phthalate	131-11-3	ug/kg	100000000	100000000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Di-n-butyl phthalate	84-74-2	ug/kg	610000	6200000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
4,6-Dinitro-2-methylphenol	534-52-1	ug/kg	None	None	<2000	<3200	<1900	<2300	<3800	<2300	<2000	<2100	<2000	<2200	<2000	<2200	<1800	<2100	<1800	<2000	<1800	<2100	<1900	<2400	<1800	<2400	<1900	<2200	<1900	<2300	<2000	<2700	<1900	<2200
2,4-Dinitrophenol	51-28-5	ug/kg	12000	120000	<2000	<3200	<1900	<2300	<3800	<2300	<2000	<2100	<2000	<2200	<2000	<2200	<1800	<2100	<1800	<2000	<1800	<2100	<1900	<2400	<1800	<2400	<1900	<2200	<1900	<2300	<2000	<2700	<1900	<2200
2,4-Dinitrotoluene	121-14-2	ug/kg	12000	120000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
2,6-Dinitrotoluene	606-20-2	ug/kg	6100	62000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Di-n-octyl phthalate	117-84-0	ug/kg	240000	2500000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Dinoseb	88-85-7	ug/kg	61000[2]	620000[2]	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Fluoranthene	206-44-0	ug/kg	230000	2200000	670	1600	3100	15000	25000	5000	670	<410	1000	16000	<400	<420	<360	<400	<350	<390	<360	870	<360	2700	1200	5300	1500	<430	1800	<440	<400	<520	810	1400
Fluorene	86-73-7	ug/kg	270000	2600000	<400	<620	<360	480	2200	530	<400	<410	880	1900	<400	<420	<360	<400	<350	<390	850	750	<360	730	470	<460	<370	<430	<370	<440	<400	<520	<380	<420
Hexachlorobenzene	118-74-1	ug/kg	300	1100	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Hexachlorobutadiene	87-68-3	ug/kg	6200	22000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Hexachlorocyclopentadiene	77-47-4	ug/kg	37000	370000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Hexachloroethane	67-72-1	ug/kg	35000	120000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	620	2100	<400	<620	**850**	**3700**	**6000**	**960**	<400	<410	**3500**	**5100**	<400	<420	<360	<400	<350	<390	<360	460	<360	**1600**	400	**910**	540	<430	<370	<440	<400	<520	<380	<420
Isophorone	78-59-1	ug/kg	510000	510000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
1-Methylnaphthalene	90-12-0	ug/kg	16000[2]	53000[2]	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	690	2700	<360	<470	1100	<460	<370	<430	<370	<440	<400	<520	<380	670
2-Methylnaphthalene	91-57-6	ug/kg	230000[2]	2200000[2]	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	1200	4400	<360	<470	1300	<460	<370	<430	<370	<440	<400	<520	<380	760
2-Methylphenol	95-48-7	ug/kg	310000	3100000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
3 & 4-Methylphenol	106-44-5	ug/kg	31000	310000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Naphthalene	91-20-3	ug/kg	5600	19000	<400	<620	<360	<440	980	<440	<400	<410	850	1500	<400	<420	<360	<400	<350	<390	<360	840	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	420
2-Nitroaniline	88-74-4	ug/kg	18000	180000	<2000	<3200	<1900	<2300	<3800	<2300	<2000	<2100	<2000	<2200	<2000	<2200	<1800	<2100	<1800	<2000	<1800	<2100	<1900	<2400	<1800	<2400	<1900	<2200	<1900	<2300	<2000	<2700	<1900	<2200
4-Nitroaniline	100-01-6	ug/kg	24000[2]	86000[2]	<2000	<3200	<1900	<2300	<3800	<2300	<2000	<2100	<2000	<2200	<2000	<2200	<1800	<2100	<1800	<2000	<1800	<2100	<1900	<2400	<1800	<2400	<1900	<2200	<1900	<2300	<2000	<2700	<1900	<2200
Nitrobenzene	98-95-3	ug/kg	2000	10000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
2-Nitrophenol	88-75-5	ug/kg	None	None	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
4-Nitrophenol	100-02-7	ug/kg	TBC	TBC	<2000	<3200	<1900	<2300	<3800	<2300	<2000	<2100	<2000	<2200	<2000	<2200	<1800	<2100	<1800	<2000	<1800	<2100	<1900	<2400	<1800	<2400	<1900	<430	<370	<440	<400	<520	<380	<420
N-Nitrosodimethylamine	62-75-9	ug/kg	9.5	34	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
N-Nitrosodi-n-propylamine	621-64-7	ug/kg	69	250	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
N-Nitrosodiphenylamine	86-30-6	ug/kg	99000	350000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Pentachlorophenol	87-86-5	ug/kg	3000	9000	<2000	<3200	<1900	<2300	<3800	<2300	<2000	<2100	<2000	<2200	<2000	<2200	<1800	<2100	<1800	<2000	<1800	<2100	<1900	<2400	<1800	<2400	<1900	<2200	<1900	<2300	<2000	<2700	<1900	<2200
Phenanthrene	85-01-8	ug/kg	202000	3060000	530	1000	1700	8700	22000	4500	<400	<410	8100	15000	<400	<420	<360	<400	<350	<390	<360	2000	<360	2900	1800	440	880	<430	900	<440	<400	<520	<380	1200
Phenol	109-95-2	ug/kg	1800000	100000000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	2300	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
Pyrene	129-00-0	ug/kg	230000	2900000	740	1500	2600	14000	22000	4600	700	<410	11000	16000	<400	<420	<360	<400	<350	<390	440	1100	<360	3000	1600	6200	1800	<430	1600	<440	<400	<520	780	1200
1,2,4-Trichlorobenzene	120-82-1	ug/kg	6200	22000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
1,2-Dichlorobenzene	95-50-1	ug/kg	600000	600000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
1,3-Dichlorobenzene	541-73-1	ug/kg	53000	600000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
1,4-Dichlorobenzene	106-46-7	ug/kg	3400	7900	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
2,4,5-Trichlorophenol	95-95-4	ug/kg	180000	1800000	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420
2,4,6-Trichlorophenol	88-06-2	ug/kg	610	6200	<400	<620	<360	<440	<730	<440	<400	<410	<400	<440	<400	<420	<360	<400	<350	<390	<360	<410	<360	<470	<360	<460	<370	<430	<370	<440	<400	<520	<380	<420

1. Alabama Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential and Commerical soil, April 2008.
2. U.S. EPA Region 9 Regional Screening Level (RSL) for Residential and Commerical soil, April 2012.
- Bold and shaded values represent a value that exceeds the ADEM PSV or the EPA Region 9 RSL
- TBC- To be calculated
- ug/kg – micrograms per kilograms.

Table 1C
Soil Analytical Data - PCBs
Bender Shipbuilding and Repair Facility Site
Preliminary Investigation
12-2116-0039

Alabama Risk Based Corrective Action Preliminary Screening Values [1]					Sample Location ID																													
CONTAMINANT	CAS Number	Units	Residential	Commercial	B-1 5.29.12 0'-3'	B-1 5.29.12 3'-11'	B-2 5.29.12 0'-3'	B-2 5.29.12 3'-4.5'	B-3 5.29.12 0'-3'	B-3 5.29.12 3'-5.5'	B-4 5.29.12 0'-3'	B-4 5.29.12 3'-6'	B-5 5.29.12 0'-3'	B-5 5.29.12 3'-6'	B-6 5.29.12 0'-3'	B-6 5.29.12 3'-6'	B-7 5.29.12 0'-3'	B-7 5.29.12 3'-6'	B-8 5.29.12 0'-3'	B-8 5.29.12 3'-6'	B-9 5.30.12 0'-3'	B-9 5.30.12 3'-6'	B-10 5.30.12 0'-3'	B-10 5.30.12 3'-6'	B-11 5.30.12 0'-3'	B-11 5.30.12 3'-6'	B-12 5.30.12 0'-3'	B-12 5.30.12 3'-6'	B-13 5.30.12 0'-3'	B-13 5.30.12 3'-6'	B-14 5.30.12 0'-3'	B-14 5.30.12 3'-6'	B-15 5.30.12 0'-3'	B-15 5.30.12 3'-5.5'
PCB-1016	12674-11-2	ug/kg	390	21000	<40	<62	<36	<44	<73	<44	<79	<41	<200	<44	<40	<42	<36	<40	<35	<39	<36	<41	<36	<47	<36	<46	<37	<43	<37	<44	<40	<52	<38	<42
PCB-1221	11104-28-2	ug/kg	220	740	<80	<130	<73	<90	<150	<90	<160	<84	<400	<89	<81	<86	<72	<81	<71	<79	<73	<84	<74	<96	<73	<94	<76	<87	<76	<89	<80	<110	<77	<85
PCB-1232	11141-16-5	ug/kg	220	740	<40	<62	<36	<44	<73	<44	<79	<41	<200	<44	<40	<42	<36	<40	<35	<39	<36	<41	<36	<47	<36	<46	<37	<43	<37	<44	<40	<52	<38	<42
PCB-1242	53469-21-9	ug/kg	220	740	<40	<62	<36	<44	<73	<44	<79	<41	<200	<44	<40	<42	<36	<40	<35	<39	<36	<41	<36	<47	<36	<46	<37	<43	<37	<44	<40	<52	<38	<42
PCB-1248	12672-29-6	ug/kg	220	740	<40	<62	<36	<44	<73	<44	<79	<41	<200	<44	<40	<42	<36	<40	<35	<39	<36	<41	<36	<47	<36	<46	<37	<43	<37	<44	<40	<52	<38	<42
PCB-1254	11097-69-1	ug/kg	220	740	<40	<62	<36	<44	<73	<44	<79	<41	<200	<44	<40	<42	<36	<40	<35	<39	<36	<41	<36	<47	<36	<46	<37	<43	<37	<44	<40	<52	<38	<42
PCB-1260	11096-82-5	ug/kg	220	740	<40	<62	<36	<44	<73	<44	<79	<41	**480**	<44	<40	<42	<36	<40	<35	<39	<36	<41	<36	<47	**660**	<46	75	<43	<37	<44	<40	<52	62	<42

1. Alabama Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential and Commerical soil, April 2008.
- Bold and shaded values represent a value that exceeds the ADEM PSV.
- ug/kg – micrograms per kilograms.

Table 1D
Soil Analytical Data - Inorganics
Bender Shipbuilding and Repair Facility PreliminaryInvestigation
12-2116-0039

Alabama Risk-Based Corrective Action Preliminary Screening Values[1]					Sample Location ID																													
CONTAMINANT	**CAS Number**	**Units**	**Residential**	**Commercial**	**B-1 5.29.12 0'-3'**	**B-1 5.29.12 3'-11'**	**B-2 5.29.12 0'-3'**	**B-2 5.29.12 3'-4.5'**	**B-3 5.29.12 0'-3'**	**B-3 5.29.12 3'-5.5'**	**B-4 5.29.12 0'-3'**	**B-4 5.29.12 3'-6'**	**B-5 5.29.12 0'-3'**	**B-5 5.29.12 3'-6'**	**B-6 5.29.12 0'-3'**	**B-6 5.29.12 3'-6'**	**B-7 5.29.12 0'-3'**	**B-7 5.29.12 3'-6'**	**B-8 5.29.12 0'-3'**	**B-8 5.29.12 3'-6'**	**B-9 5.30.12 0'-3'**	**B-9 5.30.12 3'-6'**	**B-10 5.30.12 0'-3'**	**B-10 5.30.12 3'-6'**	**B-11 5.30.12 0'-3'**	**B-11 5.30.12 3'-6'**	**B-12 5.30.12 0'-3'**	**B-12 5.30.12 3'-6'**	**B-13 5.30.12 0'-3'**	**B-13 5.30.12 3'-6'**	**B-14 5.30.12 0'-3'**	**B-14 5.30.12 3'-6'**	**B-15 5.30.12 0'-3'**	**B-15 5.30.12 3'-5.5'**
Antimony	7440-36-0	mg/kg	3.1	41	<1.9	<15	<8.8	<1.8	**29**	1.7	<2.0	<2.0	**3.5**	<2.2	<2.0	<2.0	2.5	<1.8	<7.7	<1.5	2.1	<12	<2.2	**6.6**	<10	<2.7	**4.2**	<2.3	**14**	**5.4**	**10**	<2.8	<2.0	<2.4
Arsenic	7440-38-2	mg/kg	0.4	1.6	**11**	**13**	**4.1**	**4.1**	**35**	**13**	**11**	**1.6**	**6.2**	**4.7**	**4.3**	**2.2**	**11**	**1.3**	**2.4**	**1.7**	**9.9**	**20**	**5.6**	**24**	**9.2**	**6.1**	**9.6**	**2.5**	**46**	**21**	**25**	**14**	**6.5**	**16**
Beryllium	7440-41-7	mg/kg	15	190	<0.39	<0.61	0.51	<0.35	0.53	<0.28	<0.39	<0.40	0.45	<0.43	<0.40	<0.41	<0.37	<0.35	<0.31	<0.30	<0.39	0.57	<0.43	<0.55	0.62	<0.53	<0.39	<0.45	1	<0.46	<0.42	<0.57	<0.41	<0.49
Cadmium	7440-43-9	mg/kg	3.7	45	1.5	<0.76	1.0	<0.44	3.1	0.4	<0.49	<0.51	7.1	0.8	<0.49	<0.51	<0.46	<0.44	<0.39	<0.37	<0.49	0.9	0.63	1.4	2.1	<0.66	6.8	<0.57	1.4	1.1	3.3	1.1	3.6	0.8
Chromium	7440-47-3	mg/kg	30	64	14	16	12	5.6	19	11	11	4.5	28	8.3	5.8	10	7.9	6.2	8.3	5.7	11	9.2	**32**	19	**63**	13	13	6.6	**63**	6.5	16	6.5	20	13
Copper	7440-50-8	mg/kg	310	4100	140	93	71	83	**800**	51	210	7.9	**330**	86	26	4.6	45	3.3	46	5.1	38	110	41	240	**1100**	62	110	27	250	65	**400**	150	96	150
Lead	7439-92-1	mg/kg	400	800	220	330	110	260	**570**	180	**880**	52	280	**790**	260	18	57	24	66	22	57	220	79	260	**700**	**470**	**530**	270	**550**	220	380	**580**	110	170
Mercury	7487-94-7	mg/kg	0.61	6.2	0.42	**0.91**	0.046	0.57	**0.64**	0.18	0.37	0.059	0.25	**6.8**	0.16	<0.015	<0.013	0.075	0.073	0.087	0.058	0.29	0.13	0.27	**1.7**	<5.3	**0.62**	0.094	0.51	0.51	0.33	**1.4**	0.27	0.22
Nickel	7440-02-0	mg/kg	160	2000	8.7	12	8.7	4.5	20	11	17	<4.0	21	6.1	<4.0	5.6	10	<3.5	3.6	<3.0	4.9	8.5	5.8	15	21	<2.0	9.5	<4.5	22	32	13	6.8	10	13
Selenium	7782-49-2	mg/kg	39	510	<1.4	<2.3	<1.3	<1.3	<1.4	<1.0	<1.5	<1.5	<1.5	<1.6	<1.5	<1.5	<1.4	<1.3	<1.2	<1.1	<1.5	<1.7	<1.6	<2.1	<1.5	<2.7	<1.5	<1.7	1.5	<1.7	<1.6	<2.1	<1.5	<1.8
Silver	7440-22-4	mg/kg	39	510	<0.97	<1.5	<0.88	<0.88	<0.94	<0.70	<0.98	<1.0	<1.0	<1.1	<0.99	<1.0	<0.92	<0.88	<0.77	<0.74	<0.99	<1.2	<1.1	<1.4	<1.0	<1.3	<0.97	<1.1	<1.0	<1.1	<1.1	<1.4	<1.0	<1.2
Thallium	7440-28-0	mg/kg	0.52	6.7	<1.4	<2.3	<1.3	<1.3	<1.4	<1.0	<1.5	<1.5	<1.5	<1.6	<1.5	<1.5	<1.4	<1.3	<1.2	<1.1	<1.5	<1.7	<1.6	<2.1	<1.5	<2.0	**1.5**	<1.7	<1.5	<1.7	<1.6	<2.1	<1.5	<1.8
Zinc	7440-66-6	mg/kg	2300	100000	850	180	250	96	1200	140	130	17	1200	170	46	42	110	15	110	15	70	190	160	620	840	230	**2700**	74	330	200	1000	240	690	420

1. Alabama Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Residential and Commerical soil, April 2008.
- Bold and shaded values represent a value that exceeds the ADEM PSV.
- mg/kg – milligrams per kilograms.

Table 2A
Groundwater Analytical Data - VOCs
Bender Shipbuilding and Repair Facility Site
Preliminary Investigation
12-2116-0039

Alabama Risk Based Corrective Action Preliminary Screening Values [1]				Sample Location ID		
CONTAMINANT	**CAS Number**	**Units**	**Tap Water**	**TW-1 (6.0'-11.0') 5.29.12**	**TW-2 (5.0'-10.0') 5.29.12**	**TW-3 (5.0'-10.0') 5.29.12**
Acetone	67-64-1	ug/L	0.0042	<25	<25	<25
Benzene	71-43-2	ug/L	5	<1.0	<1.0	<1.0
Bromoform	75-25-2	ug/L	80	<1.0	<1.0	<1.0
Bromomethane	74-83-9	ug/L	0.87	<1.0	<1.0	<1.0
2-Butanone (MEK)	78-93-3	ug/L	700	<10	<10	<10
Carbon disulfide	75-15-0	ug/L	100	<1.0	<1.0	<1.0
Carbon tetrachloride	56-23-5	ug/L	5	<1.0	<1.0	<1.0
Chlorobenzene	108-90-7	ug/L	100	<1.0	<1.0	<1.0
Chloroethane	75-00-3	ug/L	4.6	<1.0	<1.0	<1.0
Chlorodibromomethane	124-48-1	ug/L	None	<1.0	<1.0	<1.0
Chloroform	67-66-3	ug/L	80	<1.0	<1.0	<1.0
Chloromethane	74-87-3	ug/L	1.6	<1.0	<1.0	<1.0
(cis)-1,2-Dichloroethene	156-59-2	ug/L	70	<1.0	<1.0	<1.0
(cis)-1,3-Dichloropropene	542-75-6	ug/L	0.4	<1.0	<1.0	<1.0
Dibromochloromethane	124-48-1	ug/L	80	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	95-50-1	ug/L	600	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541-73-1	ug/L	18	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106-46-7	ug/L	75	<1.0	<1.0	<1.0
Dichlorobromomethane	75-27-4	ug/L	None	<1.0	<1.0	<1.0
1,1-Dichloroethane	75-34-3	ug/L	81	<1.0	<1.0	<1.0
1,2-Dichloroethane	107-06-2	ug/L	5	<1.0	<1.0	<1.0
1,1-Dichloroethene	75-35-4	ug/L	7	<1.0	<1.0	<1.0
1,2-Dichloropropane	78-87-5	ug/L	5	<1.0	<1.0	<1.0
Ethylbenzene	100-41-4	ug/L	700	<1.0	<1.0	<1.0
2-Hexanone	591-78-6	ug/L	47[(2)]	<10	<10	<10
Methylene chloride	75-09-2	ug/L	5	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	108-10-1	ug/L	200	<10	<10	<10
m-Xylene & p-Xylene	106-42-3	ug/L	200[(2)]	<2.0	<2.0	<2.0
o-Xylene	95-47-6	ug/L	200[(2)]	<1.0	<1.0	<1.0
Styrene	160-42-5	ug/L	100	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79-34-5	ug/L	0.055	<1.0	<1.0	<1.0
Tetrachloroethene	127-18-4	ug/L	5	<1.0	<1.0	<1.0
Toluene	108-88-3	ug/L	1000	<1.0	<1.0	<1.0
(trans)-1,2-Dichloroethene	156-60-5	ug/L	100	<1.0	<1.0	<1.0
(trans)-1,3-Dichloropropene	542-75-6	ug/L	0.4	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	71-55-6	ug/L	200	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79-00-5	ug/L	5	<1.0	<1.0	<1.0
Trichloroethene (TCE)	79-01-6	ug/L	5	<1.0	<1.0	<1.0
Vinyl chloride	75-01-4	ug/L	2	<1.0	<1.0	<1.0
Xylenes (Total)	1330-20-7	ug/L	10000	<3.0	<3.0	<3.0

1. Alabama Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2
2. U.S. EPA Region 9 Regional Screening Level (RSL) for Tapwater, April 2012.
- ug/L – micrograms per kilograms.

Table 2B
Groundwater Analytical Data - SVOCs
Bender Shipbuilding and Repair Facility Site
Preliminary Investigation
12-2116-0039

Alabama Risk Based Corrective Action Preliminary Screening Values [1]				Sample Location ID		
CONTAMINANT	CAS Number	Units	Tap Water	TW-1 (6.0'-11.0') 5.29.12	TW-2 (5.0'-10.0') 5.29.12	TW-3 (5.5'-10.0') 5.29.12
Acenaphthene	83-32-9	ug/L	37	<9.3	<9.3	<9.3
Acenaphthylene	208-96-8	ug/L	93.9	<9.3	<9.3	<9.3
Anthracene	120-12-7	ug/L	180	<9.3	<9.3	<9.3
Benzidine	92-87-5	ug/L	0.00029	<75	<74	<74
Benzo(a)anthracene	56-55-3	ug/L	0.092	<9.3	<9.3	<9.3
Benzo(a)pyrene	50-32-8	ug/L	0.2	<9.3	<9.3	<9.3
Benzo(b)fluoranthene	205-99-2	ug/L	0.092	<9.3	<9.3	<9.3
Benzo(g,h,i)perylene	191-24-2	ug/L	46.9	<9.3	<9.3	<9.3
Benzo(k)fluoranthene	207-08-9	ug/L	0.92	<9.3	<9.3	<9.3
bis(2-chloroethoxy)methane	111-91-1	ug/L	None	<9.3	<9.3	<9.3
bis(2-chloroethyl)ether	111-44-4	ug/L	0.01	<9.3	<9.3	<9.3
Bis(2-ethylhexyl) phthalate	117-81-7	ug/L	6.0	<9.3	<9.3	<9.3
4-bromophenyl phenyl ether	101-55-3	ug/L	None	<9.3	<9.3	<9.3
Butyl benzyl phthalate	85-68-7	ug/L	730	<9.3	<9.3	<9.3
Carbazole	86-74-8	ug/L	3.4	<9.3	<9.3	<9.3
4-Chloroaniline	106-47-8	ug/L	15	<9.3	<9.3	<9.3
4-Chloro-3-methylphenol	59-50-7	ug/L	None	<9.3	<9.3	<9.3
2-Chlorophenol	95-57-8	ug/L	3	<9.3	<9.3	<9.3
4-chlorophenyl phenyl ether	7005-72-3	ug/L	None	<47	<46	<46
Chrysene	218-01-9	ug/L	9.2	<9.3	<9.3	<9.3
Dibenz(a,h)anthracene	53-70-3	ug/L	0.0092	<9.3	<9.3	<9.3
Dibenzofuran	132-64-9	ug/L	1.2	<9.3	<9.3	<9.3
3,3'-Dichlorobenzidine	91-94-1	ug/L	0.15	<19	<19	<19
2,4-Dichlorophenol	120-83-2	ug/L	11	<9.3	<9.3	<9.3
Diethyl phthalate	84-66-2	ug/L	2900	<9.3	<9.3	<9.3
2,4-Dimethylphenol	105-67-9	ug/L	73	<9.3	<9.3	<9.3
Dimthyl phthalate	131-11-3	ug/L	36000	<9.3	<9.3	<9.3
Di-n-butyl phthalate	84-74-2	ug/L	360	<9.3	<9.3	<9.3
4,6-Dinitro-2-methylphenol	534-52-1	ug/L	None	<47	<46	<46
2,4-Dinitrophenol	51-28-5	ug/L	7.3	<47	<46	<46
2,4-Dinitrotoluene	121-14-2	ug/L	7.3	<9.3	<9.3	<9.3
2,6-Dinitrotoluene	606-20-2	ug/L	3.6	<9.3	<9.3	<9.3
Di-n-octyl phthalate	117-84-0	ug/L	150	<9.3	<9.3	<9.3
Dinoseb	88-85-7	ug/L	37[2]	<9.3	<9.3	<9.3
Fluoranthene	206-44-0	ug/L	150	<9.3	<9.3	<9.3
Fluorene	86-73-7	ug/L	24	<9.3	<9.3	<9.3
Hexachlorobenzene	118-74-1	ug/L	1	<9.3	<9.3	<9.3
Hexachlorobutadiene	87-68-3	ug/L	0.86[2]	<9.3	<9.3	<9.3
Hexachlorocyclopentadiene	77-47-4	ug/L	50	<9.3	<9.3	<9.3
Hexachloroethane	67-72-1	ug/L	4.8	<9.3	<9.3	<9.3
Indeno(1,2,3-cd)pyrene	193-39-5	ug/L	0.092	<9.3	<9.3	<9.3
Isophorone	78-59-1	ug/L	71	<9.3	<9.3	<9.3
1-Methylnaphthalene	90-12-0	ug/L	2.3[2]	<9.3	<9.3	<9.3
2-Methylnaphthalene	91-57-6	ug/L	6.26	<9.3	<9.3	<9.3
2-Methylphenol	95-48-7	ug/L	180	<9.3	<9.3	<9.3
3 & 4 Methylphenol	106-44-5	ug/L	18	<9.3	<9.3	<9.3
Naphthalene	91-20-3	ug/L	0.62	<9.3	<9.3	<9.3
2-Nitroaniline	88-74-4	ug/L	11	<47	<46	<46
4-Nitroaniline	100-01-6	ug/L	3.4[2]	<47	<46	<46
Nitrobenzene	98-95-3	ug/L	0.34	<9.3	<9.3	<9.3
2-Nitrophenol	88-75-5	ug/L	None	<9.3	<9.3	<9.3
4-Nitrophenol	100-02-7	ug/L	12.5	<47	<46	<46
N-Nitrosodimethylamine	62-75-9	ug/L	0.0013	<9.3	<9.3	<9.3
N-Nitrosodi-n-propylamine	621-64-7	ug/L	0.0096	<9.3	<9.3	<9.3
N-Nitrosodiphenylamine	86-30-6	ug/L	14	<9.3	<9.3	<9.3
Pentachlorophenol	87-86-5	ug/L	1	<47	<46	<46
Phenanthrene	85-01-8	ug/L	46.9	<9.3	<9.3	<9.3
Phenol	109-95-2	ug/L	1100	<9.3	<9.3	<9.3
Pyrene	129-00-0	ug/L	18	<9.3	<9.3	<9.3
1,2,4-Trichlorobenzene	120-82-1	ug/L	7.0[2]	<9.3	<9.3	<9.3
2,4,5-Trichlorophenol	95-95-4	ug/L	360	<9.3	<9.3	<9.3
2,4,6-Trichlorophenol	88-06-2	ug/L	0.36	<9.3	<9.3	<9.3

1. Alabama Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
2. U.S. EPA Region 9 Regional Screening Level (RSL) for Tapwater, June 2011.
- ug/L – micrograms per kilograms.

Table 2C
Groundwater Analytical Data - PCBs
Bender Shipbuilding and Repair Facility Site
Preliminary Investigation
12-2116-0039

Alabama Risk Based Corrective Action Preliminary Screening Values [1]				Sample Location ID		
CONTAMINANT	**CAS Number**	**Units**	**Tap Water**	**TW-1 (6.0'-11.0') 5.29.12**	**TW-2 (5.0'-10.0') 5.29.12**	**TW-3 (5.0'-10.0') 5.29.12**
PCB-1016	12674-11-2	ug/L	0.96	<0.95	<0.98	<0.95
PCB-1221	11104-28-2	ug/L	0.034	<1.9	<2.0	<1.9
PCB-1232	11141-16-5	ug/L	0.034	<0.95	<0.98	<0.95
PCB-1242	53469-21-9	ug/L	0.034	<0.95	<0.98	<0.95
PCB-1248	12672-29-6	ug/L	0.034	<0.95	<0.98	<0.95
PCB-1254	11097-69-1	ug/L	0.034	<0.95	<0.98	<0.95
PCB-1260	11096-82-5	ug/L	0.034	<0.95	<0.98	<0.95

1. Alabama Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
- ug/L – micrograms per kilograms.

Table 2D
Groundwater Analytical Data - Inorganics
Bender Shipbuilding and Repair Facility Site
Preliminary Investigation
12-2116-0039

Alabama Risk Based Corrective Action Preliminary Screening Values [1]				Sample Location ID		
CONTAMINANT	**CAS Number**	**Units**	**Tap Water**	**TW-1 (6.0'-11.0') 5.29.12**	**TW-2 (5.0'-10.0') 5.29.12**	**TW-3 (5.0'-10.0') 5.29.12**
Antimony	7440-36-0	mg/L	0.006	<0.020	<0.020	<0.020
Arsenic	7440-38-2	mg/L	0.01	<0.015	<0.015	<0.015
Beryllium	7440-41-7	mg/L	0.004	<0.0040	<0.0040	<0.0040
Cadmium	7440-43-9	mg/L	0.005	<0.0050	<0.0050	<0.0050
Chromium (Total)	7440-47-3	mg/L	0.10	<0.010	<0.010	<0.010
Copper	7440-50-8	mg/L	1.3	0.052	0.022	0.029
Lead	7439-92-1	mg/L	0.015	**0.29**	**0.15**	**0.22**
Mercury	7487-94-7	mg/L	0.002	**0.79**	**0.35**	<0.20
Nickel	7440-02-0	mg/L	0.1	<0.040	<0.040	<0.040
Selenium	7782-49-2	mg/L	0.05	<0.015	<0.015	<0.015
Silver	7440-22-4	mg/L	0.018	<0.010	<0.010	<0.010
Thallium	7440-28-0	mg/L	0.002	<0.015	<0.015	<0.015
Zinc	7440-66-6	mg/L	1.1	0.16	0.061	0.09

1. Alabama Risk-Based Corrective Action Preliminary Screening Values (PSVs) for Tapwater/Groundwater, April 2008.
- Bold and shaded values represent a value that exceeds the ADEM PSV
- mg/L – milligrams per kilograms.

APPENDIX A
GROUNDWATER SAMPLING FIELD PARAMETER MEASURMENTS AND GROUNDWATER ELEVATIONS

FIELD GROUNDWATER DATA
pH, TEMPERATURE, SPECIFIC CONDUCTANCE, AND TURBIDITY

BENDER SHIPBUILDING AND REPAIR FACILITY
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

Well I.D.	pH (S.U)	Temperature (^{o}C)	Specific Conductance (uS)	Dissolved Oxygen (mg/L)	Turbidity (NTU)
TW-1	5.2	23.1	1.35	2.45	90
TW-2	5.6	24.6	0.691	1.3	126
TW-3	5.5	24.7	0.802	1.63	47

Notes:
1. Reading presented are the final well volume. See Appendix B for the parameters per well volume purged.
2. S.U. - Standard Units
3. oC - Degrees Celcius
4. uS - micro Siemens per Centimeter
5. mg/L-milligrams per liter
6. Turbidity readings are measured in NTU (Nephelometric Turbidity Units)

GROUNDWATER ELEVATION DATA

BENDER SHIPBUILDING AND REPAIR FACILITY
I-10 MOBILE RIVER BRIDGE
MOBILE, MOBILE COUNTY, ALABAMA

WELL I.D.	CASING DIAMETER	T.O.C. ELEVATION	DEPTH TO WATER at 0800	GROUNDWATER ELEVATION at 0800
TW-1	1	2.00	3.8	-1.80
TW-2	1	2.05	3.8	-1.75
TW-3	1	6.37	6.97	-0.60

Notes:
1. Groundwater elevations based on gauging events of May 30, 2012.
2. T.O.C. denotes top of casing elevation above Mean Sea Level.
3. All measurements in feet above Mean Sea Level.
4. The benchmark used was arbitrarily chosen from a GIS spot elevation.

APPENDIX B
BORING LOGS

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** 2.00 FEET MSL

PROJECT: I-10 Mobile River Bridge

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/29/2012 **GR. WATER DEPTH:** 4.5 FEET

BORING NO.: B/TW-1 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap		
		Black SILTY SAND and GRAVEL Chemical odor present			
		dark gray, trace odor			
		Black CLAYEY SILT, trace odor			
		SILT and broken SHELL			
5		saturated			
		PEAT and WOOD			
		Black SILTY SAND			
10					
		B.T. @ 11 ft bgs			
15					
20					
25					
30					
35					

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 2.05 FEET MSL

PROJECT: I-10 Mobile River Bridge

JOB NO.: 12-2116-0039

DATE DRILLED: 5/29/2012

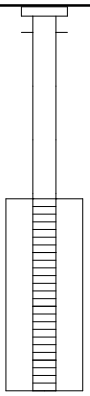
GR. WATER DEPTH: 4.5 FEET

BORING NO.: B/TW-2

LOCATION: BENDER SHIPBUILDING

TYPE BORING: HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		FILL ROCK	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake); Flush-threaded joints with bottom cap		
		Light brown SILTY SAND and GRAVEL			
		Gray and black SILTY SAND with metal fragments moist			
		Black SANDY SILT and GRAVEL			
5		saturated			
10		B.T. @ 10 ft bgs			
15					
20					
25					
30					
35					



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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation **T.O.C ELEVATION:** 6.37 FEET MSL

PROJECT: I-10 Mobile River Bridge

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/29/2012 **GR. WATER DEPTH:** 6.5 FEET

BORING NO.: B/TW-3 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black SANDY SILT with trace SHELLS and GRAVEL	1-inch diameter schedule 40 PVC casing and screen (0.010 inch machine slotted intake): Flush-threaded joints with bottom cap		
		COAL present			
5		Black SANDY SILT with GRAVEL saturated			
10		B.T. @ 10 ft bgs			
15					
20					
25					
30					
35					

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 6 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/29/2012 **GR. WATER DEPTH:** 6 FEET

BORING NO.: B-4 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black SANDY SILT with trace SHELLS and GRAVEL			
		COAL present			
		Black SANDY SILT with GRAVEL			
5					
		saturated B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 6 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/29/2012 **GR. WATER DEPTH:** 6 FEET

BORING NO.: B-5 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black SILTY SAND with GRAVEL and pieces of metal, rubber, and paint chips			
5		saturated B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5.5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/29/2012 **GR. WATER DEPTH:** 6 FEET

BORING NO.: B-6 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
		CONCRETE SLAB			
		VOID SPACE			
0		Black SILTY SAND with GRAVEL			
5		Gray SILTY SAND saturated			
		Light gray soft SILTY CLAY			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5.5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/29/2012 **GR. WATER DEPTH:** 6 FEET

BORING NO.: B-7 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Red SILTY SAND with GRAVEL			
		Black SILTY SAND, moist			
5		saturated			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5.5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/29/2012 **GR. WATER DEPTH:** 5.5 FEET

BORING NO.: B-8 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black SILTY SAND with GRAVEL			
		Black SILTY SAND, moist			
		COAL			
5		WOOD chips			
		Black SILTY SAND, moist saturated			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/30/2012 **GR. WATER DEPTH:**

BORING NO.: B-9 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE			
		Black SILTY SAND with GRAVEL petroluem odor present moist			
		Gray and orange mottled fat CLAY			
		Gray SILTY SAND with GRAVEL			
5		COAL			
		Gray SILTY SAND WOOD chips and SHELL			
		Black SILTY SAND saturated			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

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MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/30/2012 **GR. WATER DEPTH:**

BORING NO.: B-10 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		CONCRETE			
		Black SILTY SAND with GRAVEL			
		Gray SILTY SAND, chemical odor present, moist			
		Dark gray SILTY SAND with GRAVELand COAL			
5		Light gray SILTY SAND, slight odor present, saturated			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

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AASHTO R18

MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5.5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/30/2012 **GR. WATER DEPTH:**

BORING NO.: B-11 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Brown SILTY SAND with GRAVEL, chemical odor and metal fragments present			
		Black SILTY SAND with SHELL fragments, odor present			
5		SHELL and metal fragments			
		Black SILTY SAND, moist			
		WOOD chips, saturated			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

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AASHTO R18

MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5.5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/30/2012 **GR. WATER DEPTH:**

BORING NO.: B-12 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black SILTY SAND with GRAVEL and SHELL			
		CLAY present			
5		Gray SILTY SAND, moist			
		saturated			
		WOOD chips, slight odor present			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

thompson ENGINEERING

AASHTO R18

MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5.5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/30/2012 **GR. WATER DEPTH:**

BORING NO.: B-13 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Light gray to brown SILTY SAND with GRAVEL and SHELL			
		Black SILTY SAND and COAL, moist			
		Black SILTY SAND intermixed with COAL and SHELL			
5		Light gray SILTY SAND			
		Black SILTY SAND with COAL, saturated			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

thompson ENGINEERING

AASHTO R18

MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/30/2012 **GR. WATER DEPTH:**

BORING NO.: B-14 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER/GEOPROBE

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Black SILTY SAND with GRAVEL			
		moist			
		Black SILTY SAND with WOOD and PEAT, moist			
5		saturated			
		Gray SILTY SAND, saturated			
		B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

thompson ENGINEERING

AASHTO R18

MONITORING WELL CONSTRUCTION DETAILS

CLIENT: Alabama Department of Transportation

T.O.C ELEVATION: 5.5 FEET

PROJECT: I-10 Mobile River Bridge

SEE TOPOGRAPHIC MAP

JOB NO.: 12-2116-0039 **DATE DRILLED:** 5/30/2012 **GR. WATER DEPTH:**

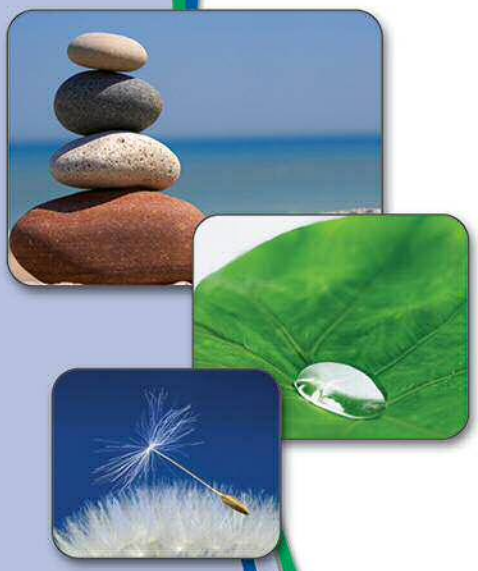
BORING NO.: B-15 **LOCATION:** BENDER SHIPBUILDING **TYPE BORING:** HAND AUGER

DEPTH IN FEET	SYMBOL	DESCRIPTION	WELL MATERIALS	ANNULAR MATERIALS	WELL DIAGRAM
0		Brown SILTY SAND with GRAVEL and SHELL moist			
5		Black SILTY SAND, saturated B.T. @ 6 ft bgs			
10					
15					
20					
25					
30					
35					

APPENDIX C
LABORATORY ANALYTICAL DATA WITH RELATED CHAIN-OF-CUSTODY

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Tel: (251)666-6633

TestAmerica Job ID: 700-67982-1
Client Project/Site: ALDOT- Bender Shipbuilding

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Mr. Bill Parrish



Authorized for release by:
6/1/2012 4:00:07 PM

Mike Nance
Project Manager II
mike.nance@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
F	RPD of the MS and MSD exceeds the control limits
*	LCS or LCSD exceeds the control limits
*	RPD of the LCS and LCSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 700-67982-1

Laboratory: TestAmerica Mobile

Narrative

Job Narrative
700-67982-1

Comments
No additional comments.

Receipt
The samples were received on 5/29/2012 4:12 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.6º C and 4.2º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 117500 exceeded control criteria for 3 of 43 compounds (93% passing). The method criteria requires a minimum of 80% passing for the analysis of samples. A reporting limit standard (MRL) was analyzed with the batch, and all the affected analytes were detected. The related samples were non-detect for the affected analytes. The data have been qualified and reported.

Method(s) 8260C: The laboratory control sample duplicate (LCSD) for batch 117500 exceeded control limits for several analytes. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 117535 exceeded control criteria for 9 of 52 compounds (83% passing). The method criteria requires a minimum of 80% passing for the analysis of samples. A reporting limit standard (MRL) was analyzed with the batch, and all the affected analytes were detected. The related samples were non-detect for the affected analytes. The data have been qualified and reported.

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 117614 exceeded control criteria for 2 of 43 compounds (95% passing). The method criteria requires a minimum of 80% passing for the analysis of samples. A reporting limit standard (MRL) was analyzed with the batch, and all the affected analytes were detected. The related samples were non-detect for the affected analytes. The data have been qualified and reported.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: B-3 (3'-5.5') (700-67982-6), B-6 (0'-3') (700-67982-11), B-7 (3'-6') (700-67982-14). The samples show evidence of matrix interference; verified by reanalysis with concurring results.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample(s): 67982A3, 67982A4, 67982A9, 67982A10, 67982A16, 68015C7, and 68015C10.B-1 (0'-3') (700-67982-1), B-1 (3'-11') (700-67982-2), B-2 (0'-3') (700-67982-3), B-2 (3'-4.5') (700-67982-4), B-5 (0'-3') (700-67982-9), B-5 (3'-6') (700-67982-10), B-8 (3'-6') (700-67982-16). The sample(s) shows evidence of matrix interference.

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 117645 exceeded control criteria for 16 of the 85 compounds (81% passing). The method criteria requires a minimum of 80% passing for the analysis of samples. A reporting limit standard (MRL) was analyzed with the batch, and all the affected analytes were detected. The related samples were non-detect for the affected analytes. The data have been qualified and reported.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample: B-3 (0'-3') (700-67982-5). The sample shows evidence of matrix interference; verified by reanalysis with concurring results.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample: B-8 (0'-3') (700-67982-15). The sample shows evidence of matrix interference. Sample not reanalyzed due to time constraints. Data has been flagged and reported on an as-is basis.

No other analytical or quality issues were noted.

GC/MS Semi VOA
Method(s) 8270D: Six surrogates are used for this analysis. The laboratory's SOP allows two of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following samples contained an allowable number of surrogate

Job ID: 700-67982-1 (Continued)

Laboratory: TestAmerica Mobile (Continued)

compounds outside limits: B-6 (0'-3') (700-67982-11), B-6 (3'-6') (700-67982-12), B-7 (3'-6') (700-67982-14), B-8 (0'-3') (700-67982-15), B-8 (3'-6') (700-67982-16). These results have been reported and qualified.

Method(s) 8270D: Due to the matrix, the initial volume(s) used for the following sample(s) deviated from the standard procedure: B-3 (0'-3') (700-67982-5). The reporting limits (RLs) have been adjusted proportionately.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 8081B/8082A: 2 surrogates are used for this analysis. The laboratory's SOP allows 1 of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample(s) contained an allowable number of surrogate compounds outside limits: (700-67982-19 MS), TW-1 (700-67982-17), TW-2 (700-67982-18), TW-3 (700-67982-19). These results have been reported and qualified.

Method(s) 8081B/8082A: Internal standard (ISTD) response for the following sample(s) was outside control limits: TW-1 (700-67982-17). The sample(s) was re-analyzed with concurring results. The original set of data has been reported.

Method(s) 8081B/8082A: Internal standard (ISTD) response for the following sample(s) was outside control limits: (700-67982-15 MS), (700-67982-15 MSD), B-1 (0'-3') (700-67982-1), B-1 (3'-11') (700-67982-2), B-2 (0'-3') (700-67982-3), B-2 (3'-4.5') (700-67982-4), B-3 (0'-3') (700-67982-5), B-3 (3'-5.5') (700-67982-6), B-4 (3'-6') (700-67982-8), B-5 (3'-6') (700-67982-10), B-6 (0'-3') (700-67982-11), B-6 (3'-6') (700-67982-12), B-7 (0'-3') (700-67982-13), B-7 (3'-6') (700-67982-14), B-8 (0'-3') (700-67982-15), B-8 (3'-6') (700-67982-16). The sample(s) was re-analyzed with concurring results. The original set of data has been reported.

No other analytical or quality issues were noted.

Metals

Method(s) 6010C: The following sample(s) was diluted due to the abundance of non-target analytes: B-1 (3'-11') (700-67982-2), B-2 (0'-3') (700-67982-3), B-8 (0'-3') (700-67982-15). Elevated reporting limits (RLs) are provided for antimony and lead.

Method(s) 7471B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 117483 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria. Data qualified and reported.

No other analytical or quality issues were noted.

General Chemistry

No analytical or quality issues were noted.

Organic Prep

Method(s) 3550C: Due to the matrix (dark and oily), the initial volume(s) used for the following sample(s) on batch 117503 deviated from the standard procedure.

Method(s) 3550C: Due to the matrix (dark and oily), the initial amount used for the following sample(s) on batch 117477 deviated from the standard procedure.

No other analytical or quality issues were noted.

VOA Prep

No analytical or quality issues were noted.

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-1 (0'-3')
Date Collected: 05/29/12 10:10
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-1
Matrix: Solid
Percent Solids: 83.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,1,2-Trichloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Acetone	<60		60		ug/Kg	☼		06/01/12 00:56	1
Benzene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Bromoform	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Bromomethane	<12		12		ug/Kg	☼		06/01/12 00:56	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Chlorobenzene	**14**		6.0		ug/Kg	☼		06/01/12 00:56	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Chloroethane	<12		12		ug/Kg	☼		06/01/12 00:56	1
Chloromethane	<12		12		ug/Kg	☼		06/01/12 00:56	1
Chloroform	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
2-Hexanone	<30		30		ug/Kg	☼		06/01/12 00:56	1
Methylene Chloride	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼		06/01/12 00:56	1
2-Butanone (MEK)	<30		30		ug/Kg	☼		06/01/12 00:56	1
o-Xylene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Xylenes, Total	<18		18		ug/Kg	☼		06/01/12 00:56	1
Styrene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Trichloroethene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Toluene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
Vinyl chloride	<12		12		ug/Kg	☼		06/01/12 00:56	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		06/01/12 00:56	1
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		06/01/12 00:56	1
Tetrachloroethene	**6.9**		6.0		ug/Kg	☼		06/01/12 00:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*91*		*30 - 140*		*06/01/12 00:56*	*1*
4-Bromofluorobenzene	*84*		*30 - 126*		*06/01/12 00:56*	*1*
Toluene-d8 (Surr)	*90*		*42 - 130*		*06/01/12 00:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-1 (0'-3')
Date Collected: 05/29/12 10:10
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-1
Matrix: Solid
Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2,4-Dinitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2-Chlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2-Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
2-Nitrophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
3 & 4 Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
3,3'-Dichlorobenzidine	<790		790		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
4,6-Dinitro-2-methylphenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
4-Chloroaniline	<790		790		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
4-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
4-Nitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Acenaphthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Acenaphthylene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Benzidine	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Benzo[a]pyrene	**520**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Benzo[b]fluoranthene	**630**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Benzo[g,h,i]perylene	**440**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Bis(2-ethylhexyl) phthalate	**800**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Chrysene	**500**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Dibenzofuran	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Diethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Dimethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Dinoseb	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Fluoranthene	**670**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Fluorene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Hexachlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Hexachloroethane	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Isophorone	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-1 (0'-3')
Date Collected: 05/29/12 10:10
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-1
Matrix: Solid
Percent Solids: 83.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Naphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Nitrobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Pentachlorophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Phenanthrene	**530**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Phenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Pyrene	**740**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
Carbazole	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 19:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*62*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 19:47*	*5*
2-Fluorobiphenyl	*56*		*31 - 130*	*05/30/12 13:00*	*05/30/12 19:47*	*5*
2-Fluorophenol (Surr)	*44*		*10 - 128*	*05/30/12 13:00*	*05/30/12 19:47*	*5*
Nitrobenzene-d5 (Surr)	*41*		*35 - 130*	*05/30/12 13:00*	*05/30/12 19:47*	*5*
Phenol-d5 (Surr)	*50*		*29 - 130*	*05/30/12 13:00*	*05/30/12 19:47*	*5*
Terphenyl-d14 (Surr)	*62*		*37 - 149*	*05/30/12 13:00*	*05/30/12 19:47*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 16:38	5
PCB-1221	<80		80		ug/Kg	☼	05/30/12 09:00	05/30/12 16:38	5
PCB-1232	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 16:38	5
PCB-1242	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 16:38	5
PCB-1248	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 16:38	5
PCB-1254	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 16:38	5
PCB-1260	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 16:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*30 - 150*	*05/30/12 09:00*	*05/30/12 16:38*	*5*
Tetrachloro-m-xylene	*50*		*30 - 150*	*05/30/12 09:00*	*05/30/12 16:38*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.9		1.9		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Arsenic	**11**		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Beryllium	<0.39		0.39		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Cadmium	**1.5**		0.48		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Chromium	**14**		0.97		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Copper	**140**		1.9		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Lead	**220**		0.72		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Nickel	**8.7**		3.9		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Selenium	<1.4		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Silver	<0.97		0.97		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Thallium	<1.4		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1
Zinc	**850**		1.9		mg/Kg	☼	05/30/12 10:10	05/30/12 18:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.42**		0.015		mg/Kg	☼	05/30/12 10:35	05/30/12 23:05	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-1 (3'-11')
Date Collected: 05/29/12 10:18
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-2
Matrix: Solid
Percent Solids: 53.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,1,1-Trichloroethane	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,1,2-Trichloroethane	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,1-Dichloroethane	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,1-Dichloroethene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,2-Dichloroethane	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,2-Dichlorobenzene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,3-Dichlorobenzene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,4-Dichlorobenzene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
cis-1,2-Dichloroethene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
1,2-Dichloropropane	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Acetone	**210**		93		ug/Kg	☼		05/31/12 22:19	1
Benzene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Bromoform	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Bromomethane	<19		19		ug/Kg	☼		05/31/12 22:19	1
Carbon disulfide	**24**		9.3		ug/Kg	☼		05/31/12 22:19	1
Carbon tetrachloride	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Chlorobenzene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Chlorodibromomethane	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Chloroethane	<19		19		ug/Kg	☼		05/31/12 22:19	1
Chloromethane	<19		19		ug/Kg	☼		05/31/12 22:19	1
Chloroform	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Dichlorobromomethane	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Ethylbenzene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
2-Hexanone	<46		46		ug/Kg	☼		05/31/12 22:19	1
Methylene Chloride	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
4-Methyl-2-pentanone (MIBK)	<46		46		ug/Kg	☼		05/31/12 22:19	1
2-Butanone (MEK)	<46		46		ug/Kg	☼		05/31/12 22:19	1
o-Xylene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Xylenes, Total	<28		28		ug/Kg	☼		05/31/12 22:19	1
Styrene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Trichloroethene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Toluene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
Vinyl chloride	<19		19		ug/Kg	☼		05/31/12 22:19	1
trans-1,3-Dichloropropene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
trans-1,2-Dichloroethene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
cis-1,3-Dichloropropene	<9.3		9.3		ug/Kg	☼		05/31/12 22:19	1
m-Xylene & p-Xylene	<19		19		ug/Kg	☼		05/31/12 22:19	1
Tetrachloroethene	**14**		9.3		ug/Kg	☼		05/31/12 22:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*110*		*30 - 140*		*05/31/12 22:19*	*1*
4-Bromofluorobenzene	*76*		*30 - 126*		*05/31/12 22:19*	*1*
Toluene-d8 (Surr)	*92*		*42 - 130*		*05/31/12 22:19*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
1,2-Dichlorobenzene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
1,3-Dichlorobenzene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
1,4-Dichlorobenzene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-1 (3'-11')
Date Collected: 05/29/12 10:18
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-2
Matrix: Solid
Percent Solids: 53.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2,4,5-Trichlorophenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2,4,6-Trichlorophenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2,4-Dichlorophenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2,4-Dimethylphenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2,4-Dinitrophenol	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2,4-Dinitrotoluene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2,6-Dinitrotoluene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2-Chlorophenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2-Methylnaphthalene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2-Methylphenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2-Nitroaniline	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
2-Nitrophenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
3 & 4 Methylphenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
3,3'-Dichlorobenzidine	<1200		1200		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
4,6-Dinitro-2-methylphenol	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
4-Bromophenyl phenyl ether	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
4-Chloro-3-methylphenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
4-Chloroaniline	<1200		1200		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
4-Chlorophenyl phenyl ether	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
4-Nitroaniline	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
4-Nitrophenol	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Acenaphthene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Acenaphthylene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Anthracene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Benzidine	<5100		5100		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Benzo[a]anthracene	**690**		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Benzo[a]pyrene	**800**		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Benzo[b]fluoranthene	**940**		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Benzo[g,h,i]perylene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Benzo[k]fluoranthene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Bis(2-chloroethoxy)methane	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Bis(2-chloroethyl)ether	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Bis(2-ethylhexyl) phthalate	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Butyl benzyl phthalate	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Chrysene	**940**		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Di-n-butyl phthalate	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Di-n-octyl phthalate	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Dibenz(a,h)anthracene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Dibenzofuran	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Diethyl phthalate	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Dimethyl phthalate	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Dinoseb	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Fluoranthene	**1600**		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Fluorene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Hexachlorobenzene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Hexachlorobutadiene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Hexachlorocyclopentadiene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Hexachloroethane	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Indeno[1,2,3-cd]pyrene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Isophorone	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-1 (3'-11')
Date Collected: 05/29/12 10:18
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-2
Matrix: Solid
Percent Solids: 53.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
N-Nitrosodiphenylamine	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Naphthalene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Nitrobenzene	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Pentachlorophenol	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Phenanthrene	**1000**		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Phenol	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Pyrene	**1500**		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
Carbazole	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5
N-Nitrosodimethylamine	<620		620		ug/Kg	☼	05/30/12 13:00	05/30/12 20:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 20:18*	*5*
2-Fluorobiphenyl	*53*		*31 - 130*	*05/30/12 13:00*	*05/30/12 20:18*	*5*
2-Fluorophenol (Surr)	*44*		*10 - 128*	*05/30/12 13:00*	*05/30/12 20:18*	*5*
Nitrobenzene-d5 (Surr)	*42*		*35 - 130*	*05/30/12 13:00*	*05/30/12 20:18*	*5*
Phenol-d5 (Surr)	*46*		*29 - 130*	*05/30/12 13:00*	*05/30/12 20:18*	*5*
Terphenyl-d14 (Surr)	*59*		*37 - 149*	*05/30/12 13:00*	*05/30/12 20:18*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<62		62		ug/Kg	☼	05/30/12 09:00	05/30/12 17:09	5
PCB-1221	<130		130		ug/Kg	☼	05/30/12 09:00	05/30/12 17:09	5
PCB-1232	<62		62		ug/Kg	☼	05/30/12 09:00	05/30/12 17:09	5
PCB-1242	<62		62		ug/Kg	☼	05/30/12 09:00	05/30/12 17:09	5
PCB-1248	<62		62		ug/Kg	☼	05/30/12 09:00	05/30/12 17:09	5
PCB-1254	<62		62		ug/Kg	☼	05/30/12 09:00	05/30/12 17:09	5
PCB-1260	<62		62		ug/Kg	☼	05/30/12 09:00	05/30/12 17:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*58*		*30 - 150*	*05/30/12 09:00*	*05/30/12 17:09*	*5*
Tetrachloro-m-xylene	*74*		*30 - 150*	*05/30/12 09:00*	*05/30/12 17:09*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13**		2.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1
Cadmium	<0.76		0.76		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1
Chromium	**16**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1
Copper	**93**		3.0		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1
Nickel	**12**		6.1		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1
Selenium	<2.3		2.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1
Silver	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1
Thallium	<2.3		2.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1
Zinc	**180**		3.0		mg/Kg	☼	05/30/12 10:10	05/30/12 18:41	1

Method: 6010C - Metals (ICP) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.61		0.61		mg/Kg	☼	05/30/12 10:10	05/31/12 12:29	1

Method: 6010C - Metals (ICP) - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<15		15		mg/Kg	☼	05/30/12 10:10	05/31/12 12:32	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-1 (3'-11')

Lab Sample ID: 700-67982-2
Date Collected: 05/29/12 10:18
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 53.3

Method: 6010C - Metals (ICP) - RADL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	330		5.7		mg/Kg	☼	05/30/12 10:10	05/31/12 12:32	5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.91		0.024		mg/Kg	☼	05/30/12 10:35	05/30/12 23:15	1

Client Sample ID: B-2 (0'-3')

Lab Sample ID: 700-67982-3
Date Collected: 05/29/12 10:53
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 91.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,1,1-Trichloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,1,2-Trichloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,1-Dichloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,1-Dichloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,2-Dichloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,2-Dichlorobenzene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,3-Dichlorobenzene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,4-Dichlorobenzene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
cis-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
1,2-Dichloropropane	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Acetone	<55		55		ug/Kg	☼		05/31/12 22:50	1
Benzene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Bromoform	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Bromomethane	<11		11		ug/Kg	☼		05/31/12 22:50	1
Carbon disulfide	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Carbon tetrachloride	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Chlorobenzene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Chlorodibromomethane	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Chloroethane	<11		11		ug/Kg	☼		05/31/12 22:50	1
Chloromethane	<11		11		ug/Kg	☼		05/31/12 22:50	1
Chloroform	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Dichlorobromomethane	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Ethylbenzene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
2-Hexanone	<27		27		ug/Kg	☼		05/31/12 22:50	1
Methylene Chloride	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
4-Methyl-2-pentanone (MIBK)	<27		27		ug/Kg	☼		05/31/12 22:50	1
2-Butanone (MEK)	<27		27		ug/Kg	☼		05/31/12 22:50	1
o-Xylene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Xylenes, Total	<16		16		ug/Kg	☼		05/31/12 22:50	1
Styrene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Trichloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Toluene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
Vinyl chloride	<11		11		ug/Kg	☼		05/31/12 22:50	1
trans-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
trans-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
cis-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1
m-Xylene & p-Xylene	<11		11		ug/Kg	☼		05/31/12 22:50	1
Tetrachloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 22:50	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-2 (0'-3')
Date Collected: 05/29/12 10:53
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-3
Matrix: Solid
Percent Solids: 91.7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	*102*		*30 - 140*		*05/31/12 22:50*	*1*
4-Bromofluorobenzene	*80*		*30 - 126*		*05/31/12 22:50*	*1*
Toluene-d8 (Surr)	*94*		*42 - 130*		*05/31/12 22:50*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
1-Methylnaphthalene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2,4-Dinitrophenol	<1900		1900		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2-Chlorophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2-Methylnaphthalene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2-Methylphenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2-Nitroaniline	<1900		1900		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
2-Nitrophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
3 & 4 Methylphenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
3,3'-Dichlorobenzidine	<720		720		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
4,6-Dinitro-2-methylphenol	<1900		1900		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
4-Chloroaniline	<720		720		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
4-Nitroaniline	<1900		1900		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
4-Nitrophenol	<1900		1900		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Acenaphthene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Acenaphthylene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Anthracene	**420**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Benzidine	<2900		2900		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Benzo[a]anthracene	**1300**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Benzo[a]pyrene	**1600**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Benzo[b]fluoranthene	**1300**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Benzo[g,h,i]perylene	**1100**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Benzo[k]fluoranthene	**1100**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Chrysene	**1800**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Dibenzofuran	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Diethyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Dimethyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-2 (0'-3')
Date Collected: 05/29/12 10:53
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-3
Matrix: Solid
Percent Solids: 91.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dinoseb	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Fluoranthene	**3100**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Fluorene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Hexachlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Hexachloroethane	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Indeno[1,2,3-cd]pyrene	**850**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Isophorone	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Naphthalene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Nitrobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Pentachlorophenol	<1900		1900		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Phenanthrene	**1700**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Phenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Pyrene	**2600**		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5
Carbazole	**410**		360		ug/Kg	☼	05/30/12 13:00	05/31/12 17:06	5
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/30/12 13:00	05/30/12 20:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*16*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 20:49*	*5*
2-Fluorobiphenyl	*55*		*31 - 130*	*05/30/12 13:00*	*05/30/12 20:49*	*5*
2-Fluorophenol (Surr)	*36*		*10 - 128*	*05/30/12 13:00*	*05/30/12 20:49*	*5*
Nitrobenzene-d5 (Surr)	*46*		*35 - 130*	*05/30/12 13:00*	*05/30/12 20:49*	*5*
Phenol-d5 (Surr)	*33*		*29 - 130*	*05/30/12 13:00*	*05/30/12 20:49*	*5*
Terphenyl-d14 (Surr)	*55*		*37 - 149*	*05/30/12 13:00*	*05/30/12 20:49*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 17:40	5
PCB-1221	<73		73		ug/Kg	☼	05/30/12 09:00	05/30/12 17:40	5
PCB-1232	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 17:40	5
PCB-1242	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 17:40	5
PCB-1248	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 17:40	5
PCB-1254	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 17:40	5
PCB-1260	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 17:40	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*65*		*30 - 150*	*05/30/12 09:00*	*05/30/12 17:40*	*5*
Tetrachloro-m-xylene	*74*		*30 - 150*	*05/30/12 09:00*	*05/30/12 17:40*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.1**		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1
Cadmium	**1.0**		0.44		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1
Chromium	**12**		0.88		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1
Copper	**71**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1
Nickel	**8.7**		3.5		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1
Selenium	<1.3		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1
Silver	<0.88		0.88		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1
Thallium	<1.3		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1

Client Sample ID: B-2 (0'-3')

Lab Sample ID: 700-67982-3

Date Collected: 05/29/12 10:53

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 91.7

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	**250**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 18:44	1

Method: 6010C - Metals (ICP) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.51**		0.35		mg/Kg	☼	05/30/12 10:10	05/31/12 12:36	1

Method: 6010C - Metals (ICP) - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<8.8		8.8		mg/Kg	☼	05/30/12 10:10	05/31/12 18:23	5
Lead	**110**		3.3		mg/Kg	☼	05/30/12 10:10	05/31/12 18:23	5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.013		mg/Kg	☼	05/30/12 10:35	05/30/12 23:17	1

Client Sample ID: B-2 (3'-4.5')

Lab Sample ID: 700-67982-4

Date Collected: 05/29/12 11:03

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 74.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,1,1-Trichloroethane	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,1,2-Trichloroethane	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,1-Dichloroethane	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,1-Dichloroethene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,2-Dichloroethane	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,2-Dichlorobenzene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,3-Dichlorobenzene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,4-Dichlorobenzene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
cis-1,2-Dichloroethene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
1,2-Dichloropropane	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Acetone	<66		66		ug/Kg	☼		05/31/12 23:22	1
Benzene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Bromoform	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Bromomethane	<13		13		ug/Kg	☼		05/31/12 23:22	1
Carbon disulfide	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Carbon tetrachloride	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Chlorobenzene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Chlorodibromomethane	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Chloroethane	<13		13		ug/Kg	☼		05/31/12 23:22	1
Chloromethane	<13		13		ug/Kg	☼		05/31/12 23:22	1
Chloroform	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Dichlorobromomethane	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Ethylbenzene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
2-Hexanone	<33		33		ug/Kg	☼		05/31/12 23:22	1
Methylene Chloride	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
4-Methyl-2-pentanone (MIBK)	<33		33		ug/Kg	☼		05/31/12 23:22	1
2-Butanone (MEK)	<33		33		ug/Kg	☼		05/31/12 23:22	1
o-Xylene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Xylenes, Total	<20		20		ug/Kg	☼		05/31/12 23:22	1
Styrene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-2 (3'-4.5')
Date Collected: 05/29/12 11:03
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-4
Matrix: Solid
Percent Solids: 74.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Toluene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
Vinyl chloride	<13		13		ug/Kg	☼		05/31/12 23:22	1
trans-1,3-Dichloropropene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
trans-1,2-Dichloroethene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
cis-1,3-Dichloropropene	<6.6		6.6		ug/Kg	☼		05/31/12 23:22	1
m-Xylene & p-Xylene	<13		13		ug/Kg	☼		05/31/12 23:22	1
Tetrachloroethene	**9.6**		6.6		ug/Kg	☼		05/31/12 23:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*108*		*30 - 140*		*05/31/12 23:22*	*1*
4-Bromofluorobenzene	*87*		*30 - 126*		*05/31/12 23:22*	*1*
Toluene-d8 (Surr)	*96*		*42 - 130*		*05/31/12 23:22*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
1,2-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
1,3-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
1,4-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
1-Methylnaphthalene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2,4,5-Trichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2,4,6-Trichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2,4-Dichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2,4-Dimethylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2,4-Dinitrophenol	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2,4-Dinitrotoluene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2,6-Dinitrotoluene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2-Chlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2-Methylnaphthalene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2-Methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2-Nitroaniline	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
2-Nitrophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
3 & 4 Methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
3,3'-Dichlorobenzidine	<890		890		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
4,6-Dinitro-2-methylphenol	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
4-Bromophenyl phenyl ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
4-Chloro-3-methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
4-Chloroaniline	<890		890		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
4-Chlorophenyl phenyl ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
4-Nitroaniline	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
4-Nitrophenol	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Acenaphthene	**480**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Acenaphthylene	**770**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Anthracene	**2000**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Benzidine	<3600		3600		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Benzo[a]anthracene	**7700**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Benzo[a]pyrene	**6600**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Benzo[b]fluoranthene	**5600**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Benzo[g,h,i]perylene	**4500**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Benzo[k]fluoranthene	**3500**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-2 (3'-4.5')
Date Collected: 05/29/12 11:03
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-4
Matrix: Solid
Percent Solids: 74.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Bis(2-chloroethyl)ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Bis(2-ethylhexyl) phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Butyl benzyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Chrysene	**6600**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Di-n-butyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Di-n-octyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Dibenz(a,h)anthracene	**1200**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Dibenzofuran	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Diethyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Dimethyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Dinoseb	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Fluoranthene	**15000**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Fluorene	**480**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Hexachlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Hexachlorobutadiene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Hexachlorocyclopentadiene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Hexachloroethane	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Indeno[1,2,3-cd]pyrene	**3700**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Isophorone	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
N-Nitrosodi-n-propylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
N-Nitrosodiphenylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Naphthalene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Nitrobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Pentachlorophenol	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Phenanthrene	**8700**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Phenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Pyrene	**14000**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5
Carbazole	**1400**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 17:34	5
N-Nitrosodimethylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 21:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*73*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 21:20*	*5*
2-Fluorobiphenyl	*57*		*31 - 130*	*05/30/12 13:00*	*05/30/12 21:20*	*5*
2-Fluorophenol (Surr)	*40*		*10 - 128*	*05/30/12 13:00*	*05/30/12 21:20*	*5*
Nitrobenzene-d5 (Surr)	*43*		*35 - 130*	*05/30/12 13:00*	*05/30/12 21:20*	*5*
Phenol-d5 (Surr)	*37*		*29 - 130*	*05/30/12 13:00*	*05/30/12 21:20*	*5*
Terphenyl-d14 (Surr)	*62*		*37 - 149*	*05/30/12 13:00*	*05/30/12 21:20*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 18:11	5
PCB-1221	<90		90		ug/Kg	☼	05/30/12 09:00	05/30/12 18:11	5
PCB-1232	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 18:11	5
PCB-1242	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 18:11	5
PCB-1248	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 18:11	5
PCB-1254	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 18:11	5
PCB-1260	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 18:11	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*30 - 150*	*05/30/12 09:00*	*05/30/12 18:11*	*5*
Tetrachloro-m-xylene	*64*		*30 - 150*	*05/30/12 09:00*	*05/30/12 18:11*	*5*

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-2 (3'-4.5')

Date Collected: 05/29/12 11:03
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-4
Matrix: Solid
Percent Solids: 74.5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.8		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Arsenic	**4.1**		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Beryllium	<0.35		0.35		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Cadmium	<0.44		0.44		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Chromium	**5.6**		0.88		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Copper	**83**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Lead	**260**		0.66		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Nickel	**4.5**		3.5		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Selenium	<1.3		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Silver	<0.88		0.88		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Thallium	<1.3		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1
Zinc	**96**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 18:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.57**		0.017		mg/Kg	☼	05/30/12 10:35	05/30/12 23:19	1

Client Sample ID: B-3 (0'-3')

Date Collected: 05/29/12 11:38
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-5
Matrix: Solid
Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
1,1,1-Trichloroethane	<5.3	*	5.3		ug/Kg	☼		05/29/12 22:01	1
1,1,2-Trichloroethane	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
1,1-Dichloroethane	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
1,1-Dichloroethene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
1,2-Dichloroethane	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
1,2-Dichlorobenzene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
1,3-Dichlorobenzene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
1,4-Dichlorobenzene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
cis-1,2-Dichloroethene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
1,2-Dichloropropane	<5.3	*	5.3		ug/Kg	☼		05/29/12 22:01	1
Acetone	<53		53		ug/Kg	☼		05/29/12 22:01	1
Benzene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
Bromoform	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
Bromomethane	<11		11		ug/Kg	☼		05/29/12 22:01	1
Carbon disulfide	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
Carbon tetrachloride	<5.3	*	5.3		ug/Kg	☼		05/29/12 22:01	1
Chlorobenzene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
Chlorodibromomethane	<5.3	*	5.3		ug/Kg	☼		05/29/12 22:01	1
Chloroethane	<11		11		ug/Kg	☼		05/29/12 22:01	1
Chloromethane	<11		11		ug/Kg	☼		05/29/12 22:01	1
Chloroform	<5.3	*	5.3		ug/Kg	☼		05/29/12 22:01	1
Dichlorobromomethane	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
Ethylbenzene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
2-Hexanone	<27		27		ug/Kg	☼		05/29/12 22:01	1
Methylene Chloride	<5.3	*	5.3		ug/Kg	☼		05/29/12 22:01	1
4-Methyl-2-pentanone (MIBK)	<27		27		ug/Kg	☼		05/29/12 22:01	1
2-Butanone (MEK)	<27		27		ug/Kg	☼		05/29/12 22:01	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-3 (0'-3')
Date Collected: 05/29/12 11:38
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-5
Matrix: Solid
Percent Solids: 90.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
Xylenes, Total	<16		16		ug/Kg	☼		05/29/12 22:01	1
Styrene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
Trichloroethene	<5.3	*	5.3		ug/Kg	☼		05/29/12 22:01	1
Toluene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
Vinyl chloride	<11		11		ug/Kg	☼		05/29/12 22:01	1
trans-1,3-Dichloropropene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
trans-1,2-Dichloroethene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
cis-1,3-Dichloropropene	<5.3		5.3		ug/Kg	☼		05/29/12 22:01	1
m-Xylene & p-Xylene	<11		11		ug/Kg	☼		05/29/12 22:01	1
Tetrachloroethene	<5.3	*	5.3		ug/Kg	☼		05/29/12 22:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*110*		*30 - 140*		*05/29/12 22:01*	*1*
4-Bromofluorobenzene	*64*		*30 - 126*		*05/29/12 22:01*	*1*
Toluene-d8 (Surr)	*85*		*42 - 130*		*05/29/12 22:01*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
1,2-Dichlorobenzene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
1,3-Dichlorobenzene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
1,4-Dichlorobenzene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
1-Methylnaphthalene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2,4,5-Trichlorophenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2,4,6-Trichlorophenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2,4-Dichlorophenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2,4-Dimethylphenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2,4-Dinitrophenol	<3800		3800		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2,4-Dinitrotoluene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2,6-Dinitrotoluene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2-Chlorophenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2-Methylnaphthalene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2-Methylphenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2-Nitroaniline	<3800		3800		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
2-Nitrophenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
3 & 4 Methylphenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
3,3'-Dichlorobenzidine	<1500		1500		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
4,6-Dinitro-2-methylphenol	<3800		3800		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
4-Bromophenyl phenyl ether	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
4-Chloro-3-methylphenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
4-Chloroaniline	<1500		1500		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
4-Chlorophenyl phenyl ether	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
4-Nitroaniline	<3800		3800		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
4-Nitrophenol	<3800		3800		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Acenaphthene	**2400**		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Acenaphthylene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Anthracene	**5000**		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Benzidine	<6000		6000		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Benzo[a]anthracene	**12000**		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Benzo[a]pyrene	**9700**		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-3 (0'-3')
Date Collected: 05/29/12 11:38
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-5
Matrix: Solid
Percent Solids: 90.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	13000		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Benzo[g,h,i]perylene	7300		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Benzo[k]fluoranthene	3100		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Bis(2-chloroethoxy)methane	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Bis(2-chloroethyl)ether	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Bis(2-ethylhexyl) phthalate	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Butyl benzyl phthalate	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Chrysene	11000		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Di-n-butyl phthalate	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Di-n-octyl phthalate	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Dibenz(a,h)anthracene	1800		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Dibenzofuran	1400		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Diethyl phthalate	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Dimethyl phthalate	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Dinoseb	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Fluoranthene	25000		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Fluorene	2200		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Hexachlorobenzene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Hexachlorobutadiene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Hexachlorocyclopentadiene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Hexachloroethane	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Indeno[1,2,3-cd]pyrene	6000		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Isophorone	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
N-Nitrosodi-n-propylamine	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
N-Nitrosodiphenylamine	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Naphthalene	980		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Nitrobenzene	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Pentachlorophenol	<3800		3800		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Phenanthrene	22000		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Phenol	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Pyrene	22000		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5
Carbazole	16000		730		ug/Kg	☼	05/30/12 13:00	05/31/12 18:02	5
N-Nitrosodimethylamine	<730		730		ug/Kg	☼	05/30/12 13:00	05/30/12 21:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*72*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 21:51*	*5*
2-Fluorobiphenyl	*55*		*31 - 130*	*05/30/12 13:00*	*05/30/12 21:51*	*5*
2-Fluorophenol (Surr)	*43*		*10 - 128*	*05/30/12 13:00*	*05/30/12 21:51*	*5*
Nitrobenzene-d5 (Surr)	*43*		*35 - 130*	*05/30/12 13:00*	*05/30/12 21:51*	*5*
Phenol-d5 (Surr)	*44*		*29 - 130*	*05/30/12 13:00*	*05/30/12 21:51*	*5*
Terphenyl-d14 (Surr)	*62*		*37 - 149*	*05/30/12 13:00*	*05/30/12 21:51*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<73		73		ug/Kg	☼	05/30/12 09:00	05/30/12 18:43	5
PCB-1221	<150		150		ug/Kg	☼	05/30/12 09:00	05/30/12 18:43	5
PCB-1232	<73		73		ug/Kg	☼	05/30/12 09:00	05/30/12 18:43	5
PCB-1242	<73		73		ug/Kg	☼	05/30/12 09:00	05/30/12 18:43	5
PCB-1248	<73		73		ug/Kg	☼	05/30/12 09:00	05/30/12 18:43	5
PCB-1254	<73		73		ug/Kg	☼	05/30/12 09:00	05/30/12 18:43	5
PCB-1260	<73		73		ug/Kg	☼	05/30/12 09:00	05/30/12 18:43	5

Client Sample ID: B-3 (0'-3')

Lab Sample ID: 700-67982-5

Date Collected: 05/29/12 11:38
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 90.2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	88		30 - 150	05/30/12 09:00	05/30/12 18:43	5
Tetrachloro-m-xylene	73		30 - 150	05/30/12 09:00	05/30/12 18:43	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**29**		1.9		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1
Cadmium	**3.1**		0.47		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1
Chromium	**19**		0.94		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1
Copper	**800**		1.9		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1
Nickel	**20**		3.8		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1
Selenium	<1.4		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1
Silver	<0.94		0.94		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1
Thallium	<1.4		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1
Zinc	**1200**		1.9		mg/Kg	☼	05/30/12 10:10	05/30/12 18:51	1

Method: 6010C - Metals (ICP) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.53**		0.38		mg/Kg	☼	05/30/12 10:10	05/31/12 12:39	1

Method: 6010C - Metals (ICP) - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**35**		7.0		mg/Kg	☼	05/30/12 10:10	05/31/12 12:42	5
Lead	**570**		3.5		mg/Kg	☼	05/30/12 10:10	05/31/12 12:42	5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.64**		0.014		mg/Kg	☼	05/30/12 10:35	05/30/12 23:21	1

Client Sample ID: B-3 (3'-5.5')

Lab Sample ID: 700-67982-6

Date Collected: 05/29/12 11:55
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 74.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,1,1-Trichloroethane	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,1,2-Trichloroethane	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,1-Dichloroethane	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,1-Dichloroethene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,2-Dichloroethane	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,2-Dichlorobenzene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,3-Dichlorobenzene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,4-Dichlorobenzene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
cis-1,2-Dichloroethene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
1,2-Dichloropropane	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Acetone	**120**		66		ug/Kg	☼		05/30/12 20:49	1
Benzene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Bromoform	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Bromomethane	<13		13		ug/Kg	☼		05/30/12 20:49	1
Carbon disulfide	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Carbon tetrachloride	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Chlorobenzene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Chlorodibromomethane	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-3 (3'-5.5')
Date Collected: 05/29/12 11:55
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-6
Matrix: Solid
Percent Solids: 74.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<13		13		ug/Kg	☼		05/30/12 20:49	1
Chloromethane	<13		13		ug/Kg	☼		05/30/12 20:49	1
Chloroform	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Dichlorobromomethane	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Ethylbenzene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
2-Hexanone	<33		33		ug/Kg	☼		05/30/12 20:49	1
Methylene Chloride	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
4-Methyl-2-pentanone (MIBK)	<33		33		ug/Kg	☼		05/30/12 20:49	1
2-Butanone (MEK)	<33		33		ug/Kg	☼		05/30/12 20:49	1
o-Xylene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Xylenes, Total	<20		20		ug/Kg	☼		05/30/12 20:49	1
Styrene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Trichloroethene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Toluene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
Vinyl chloride	<13		13		ug/Kg	☼		05/30/12 20:49	1
trans-1,3-Dichloropropene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
trans-1,2-Dichloroethene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
cis-1,3-Dichloropropene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1
m-Xylene & p-Xylene	<13		13		ug/Kg	☼		05/30/12 20:49	1
Tetrachloroethene	<6.6		6.6		ug/Kg	☼		05/30/12 20:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*109*		*30 - 140*		*05/30/12 20:49*	*1*
4-Bromofluorobenzene	*69*		*30 - 126*		*05/30/12 20:49*	*1*
Toluene-d8 (Surr)	*92*		*42 - 130*		*05/30/12 20:49*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
1,2-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
1,3-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
1,4-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
1-Methylnaphthalene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2,4,5-Trichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2,4,6-Trichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2,4-Dichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2,4-Dimethylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2,4-Dinitrophenol	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2,4-Dinitrotoluene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2,6-Dinitrotoluene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2-Chlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2-Methylnaphthalene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2-Methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2-Nitroaniline	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
2-Nitrophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
3 & 4 Methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
3,3'-Dichlorobenzidine	<890		890		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
4,6-Dinitro-2-methylphenol	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
4-Bromophenyl phenyl ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
4-Chloro-3-methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
4-Chloroaniline	<890		890		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-3 (3'-5.5')
Date Collected: 05/29/12 11:55
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-6
Matrix: Solid
Percent Solids: 74.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
4-Nitroaniline	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
4-Nitrophenol	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Acenaphthene	**520**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Acenaphthylene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Anthracene	**1100**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Benzidine	<3600		3600		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Benzo[a]anthracene	**1900**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Benzo[a]pyrene	**1600**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Benzo[b]fluoranthene	**1800**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Benzo[g,h,i]perylene	**1200**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Benzo[k]fluoranthene	**700**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Bis(2-chloroethoxy)methane	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Bis(2-chloroethyl)ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Bis(2-ethylhexyl) phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Butyl benzyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Chrysene	**2100**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Di-n-butyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Di-n-octyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Dibenz(a,h)anthracene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Dibenzofuran	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Diethyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Dimethyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Dinoseb	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Fluoranthene	**5000**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Fluorene	**530**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Hexachlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Hexachlorobutadiene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Hexachlorocyclopentadiene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Hexachloroethane	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Indeno[1,2,3-cd]pyrene	**960**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Isophorone	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
N-Nitrosodi-n-propylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
N-Nitrosodiphenylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Naphthalene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Nitrobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Pentachlorophenol	<2300		2300		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Phenanthrene	**4500**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Phenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Pyrene	**4600**		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5
Carbazole	**1300**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 18:31	5
N-Nitrosodimethylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/30/12 22:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*78*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 22:23*	*5*
2-Fluorobiphenyl	*62*		*31 - 130*	*05/30/12 13:00*	*05/30/12 22:23*	*5*
2-Fluorophenol (Surr)	*44*		*10 - 128*	*05/30/12 13:00*	*05/30/12 22:23*	*5*
Nitrobenzene-d5 (Surr)	*46*		*35 - 130*	*05/30/12 13:00*	*05/30/12 22:23*	*5*
Phenol-d5 (Surr)	*45*		*29 - 130*	*05/30/12 13:00*	*05/30/12 22:23*	*5*
Terphenyl-d14 (Surr)	*72*		*37 - 149*	*05/30/12 13:00*	*05/30/12 22:23*	*5*

Client Sample ID: B-3 (3'-5.5')

Lab Sample ID: 700-67982-6

Date Collected: 05/29/12 11:55
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 74.4

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 19:14	5
PCB-1221	<90		90		ug/Kg	☼	05/30/12 09:00	05/30/12 19:14	5
PCB-1232	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 19:14	5
PCB-1242	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 19:14	5
PCB-1248	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 19:14	5
PCB-1254	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 19:14	5
PCB-1260	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 19:14	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*66*		*30 - 150*	*05/30/12 09:00*	*05/30/12 19:14*	*5*
Tetrachloro-m-xylene	*63*		*30 - 150*	*05/30/12 09:00*	*05/30/12 19:14*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**1.7**		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1
Cadmium	**0.40**		0.35		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1
Chromium	**11**		0.70		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1
Copper	**51**		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1
Nickel	**11**		2.8		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1
Selenium	<1.0		1.0		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1
Silver	<0.70		0.70		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1
Thallium	<1.0		1.0		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1
Zinc	**140**		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 18:54	1

Method: 6010C - Metals (ICP) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	<0.28		0.28		mg/Kg	☼	05/30/12 10:10	05/31/12 12:45	1

Method: 6010C - Metals (ICP) - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**13**		5.2		mg/Kg	☼	05/30/12 10:10	05/31/12 12:49	5
Lead	**180**		2.6		mg/Kg	☼	05/30/12 10:10	05/31/12 12:49	5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.18**		0.0068		mg/Kg	☼	05/30/12 10:35	05/30/12 23:23	1

Client Sample ID: B-4 (0'-3')

Lab Sample ID: 700-67982-7

Date Collected: 05/29/12 13:37
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
1,1,1-Trichloroethane	<5.8	*	5.8		ug/Kg	☼		05/29/12 23:05	1
1,1,2-Trichloroethane	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
1,1-Dichloroethane	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
1,1-Dichloroethene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
1,2-Dichloroethane	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
1,2-Dichlorobenzene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
1,3-Dichlorobenzene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
1,4-Dichlorobenzene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1

Client Sample ID: B-4 (0'-3')
Date Collected: 05/29/12 13:37
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-7
Matrix: Solid
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
1,2-Dichloropropane	<5.8	*	5.8		ug/Kg	☼		05/29/12 23:05	1
Acetone	<58		58		ug/Kg	☼		05/29/12 23:05	1
Benzene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
Bromoform	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
Bromomethane	<12		12		ug/Kg	☼		05/29/12 23:05	1
Carbon disulfide	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
Carbon tetrachloride	<5.8	*	5.8		ug/Kg	☼		05/29/12 23:05	1
Chlorobenzene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
Chlorodibromomethane	<5.8	*	5.8		ug/Kg	☼		05/29/12 23:05	1
Chloroethane	<12		12		ug/Kg	☼		05/29/12 23:05	1
Chloromethane	<12		12		ug/Kg	☼		05/29/12 23:05	1
Chloroform	<5.8	*	5.8		ug/Kg	☼		05/29/12 23:05	1
Dichlorobromomethane	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
Ethylbenzene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
2-Hexanone	<29		29		ug/Kg	☼		05/29/12 23:05	1
Methylene Chloride	<5.8	*	5.8		ug/Kg	☼		05/29/12 23:05	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼		05/29/12 23:05	1
2-Butanone (MEK)	<29		29		ug/Kg	☼		05/29/12 23:05	1
o-Xylene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
Xylenes, Total	<17		17		ug/Kg	☼		05/29/12 23:05	1
Styrene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
Trichloroethene	<5.8	*	5.8		ug/Kg	☼		05/29/12 23:05	1
Toluene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
Vinyl chloride	<12		12		ug/Kg	☼		05/29/12 23:05	1
trans-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
trans-1,2-Dichloroethene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
cis-1,3-Dichloropropene	<5.8		5.8		ug/Kg	☼		05/29/12 23:05	1
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		05/29/12 23:05	1
Tetrachloroethene	<5.8	*	5.8		ug/Kg	☼		05/29/12 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*92*		*30 - 140*		*05/29/12 23:05*	*1*
4-Bromofluorobenzene	*94*		*30 - 126*		*05/29/12 23:05*	*1*
Toluene-d8 (Surr)	*96*		*42 - 130*		*05/29/12 23:05*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2,4-Dinitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2-Chlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-4 (0'-3')
Date Collected: 05/29/12 13:37
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-7
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2-Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
2-Nitrophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
3 & 4 Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
3,3'-Dichlorobenzidine	<790		790		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
4,6-Dinitro-2-methylphenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
4-Chloroaniline	<790		790		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
4-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
4-Nitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Acenaphthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Acenaphthylene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Benzidine	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Benzo[b]fluoranthene	**450**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Chrysene	**420**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Dibenzofuran	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Diethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Dimethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Dinoseb	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Fluoranthene	**670**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Fluorene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Hexachlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Hexachloroethane	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Isophorone	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Naphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Nitrobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Pentachlorophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Phenanthrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Phenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Pyrene	**700**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5
Carbazole	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5

Client Sample ID: B-4 (0'-3')

Lab Sample ID: 700-67982-7

Date Collected: 05/29/12 13:37

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 22:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*33*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 22:54*	*5*
2-Fluorobiphenyl	*49*		*31 - 130*	*05/30/12 13:00*	*05/30/12 22:54*	*5*
2-Fluorophenol (Surr)	*38*		*10 - 128*	*05/30/12 13:00*	*05/30/12 22:54*	*5*
Nitrobenzene-d5 (Surr)	*39*		*35 - 130*	*05/30/12 13:00*	*05/30/12 22:54*	*5*
Phenol-d5 (Surr)	*38*		*29 - 130*	*05/30/12 13:00*	*05/30/12 22:54*	*5*
Terphenyl-d14 (Surr)	*72*		*37 - 149*	*05/30/12 13:00*	*05/30/12 22:54*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<79		79		ug/Kg	☼	05/30/12 09:00	06/01/12 02:14	10
PCB-1221	<160		160		ug/Kg	☼	05/30/12 09:00	06/01/12 02:14	10
PCB-1232	<79		79		ug/Kg	☼	05/30/12 09:00	06/01/12 02:14	10
PCB-1242	<79		79		ug/Kg	☼	05/30/12 09:00	06/01/12 02:14	10
PCB-1248	<79		79		ug/Kg	☼	05/30/12 09:00	06/01/12 02:14	10
PCB-1254	<79		79		ug/Kg	☼	05/30/12 09:00	06/01/12 02:14	10
PCB-1260	<79		79		ug/Kg	☼	05/30/12 09:00	06/01/12 02:14	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*42*		*30 - 150*	*05/30/12 09:00*	*06/01/12 02:14*	*10*
Tetrachloro-m-xylene	*65*		*30 - 150*	*05/30/12 09:00*	*06/01/12 02:14*	*10*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Arsenic	**11**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Beryllium	<0.39		0.39		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Cadmium	<0.49		0.49		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Chromium	**11**		0.98		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Copper	**210**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Lead	**880**		0.74		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Nickel	**17**		3.9		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Selenium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Silver	<0.98		0.98		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Thallium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1
Zinc	**130**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:07	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.37**		0.015		mg/Kg	☼	05/30/12 10:35	05/30/12 23:25	1

Client Sample ID: B-4 (3'-6')

Lab Sample ID: 700-67982-8

Date Collected: 05/29/12 13:43

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
1,1,1-Trichloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
1,1,2-Trichloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-4 (3'-6')
Date Collected: 05/29/12 13:43
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-8
Matrix: Solid
Percent Solids: 79.8

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
1,1-Dichloroethene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
1,2-Dichloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
1,2-Dichlorobenzene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
1,3-Dichlorobenzene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
1,4-Dichlorobenzene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
cis-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
1,2-Dichloropropane	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Acetone	<62		62		ug/Kg	☼		05/30/12 21:21	1
Benzene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Bromoform	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Bromomethane	<12		12		ug/Kg	☼		05/30/12 21:21	1
Carbon disulfide	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Carbon tetrachloride	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Chlorobenzene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Chlorodibromomethane	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Chloroethane	<12		12		ug/Kg	☼		05/30/12 21:21	1
Chloromethane	<12		12		ug/Kg	☼		05/30/12 21:21	1
Chloroform	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Dichlorobromomethane	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Ethylbenzene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
2-Hexanone	<31		31		ug/Kg	☼		05/30/12 21:21	1
Methylene Chloride	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼		05/30/12 21:21	1
2-Butanone (MEK)	<31		31		ug/Kg	☼		05/30/12 21:21	1
o-Xylene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Xylenes, Total	<19		19		ug/Kg	☼		05/30/12 21:21	1
Styrene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Trichloroethene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Toluene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
Vinyl chloride	<12		12		ug/Kg	☼		05/30/12 21:21	1
trans-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
trans-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
cis-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼		05/30/12 21:21	1
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		05/30/12 21:21	1
Tetrachloroethene	**7.3**		6.2		ug/Kg	☼		05/30/12 21:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*96*		*30 - 140*		*05/30/12 21:21*	*1*
4-Bromofluorobenzene	*84*		*30 - 126*		*05/30/12 21:21*	*1*
Toluene-d8 (Surr)	*95*		*42 - 130*		*05/30/12 21:21*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
1,2-Dichlorobenzene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
1,3-Dichlorobenzene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
1,4-Dichlorobenzene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
1-Methylnaphthalene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-4 (3'-6')
Date Collected: 05/29/12 13:43
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-8
Matrix: Solid
Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2,4-Dimethylphenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2,4-Dinitrophenol	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2-Chlorophenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2-Methylnaphthalene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2-Methylphenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2-Nitroaniline	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
2-Nitrophenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
3 & 4 Methylphenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
3,3'-Dichlorobenzidine	<830		830		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
4,6-Dinitro-2-methylphenol	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
4-Chloroaniline	<830		830		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
4-Nitroaniline	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
4-Nitrophenol	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Acenaphthene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Acenaphthylene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Anthracene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Benzidine	<3400		3400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Benzo[a]anthracene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Benzo[a]pyrene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Benzo[b]fluoranthene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Benzo[g,h,i]perylene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Bis(2-ethylhexyl) phthalate	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Butyl benzyl phthalate	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Chrysene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Di-n-butyl phthalate	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Di-n-octyl phthalate	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Dibenzofuran	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Diethyl phthalate	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Dimethyl phthalate	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Dinoseb	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Fluoranthene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Fluorene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Hexachlorobenzene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Hexachlorobutadiene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Hexachloroethane	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Indeno[1,2,3-cd]pyrene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Isophorone	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Naphthalene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-4 (3'-6')
Date Collected: 05/29/12 13:43
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-8
Matrix: Solid
Percent Solids: 79.8

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Pentachlorophenol	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Phenanthrene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Phenol	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Pyrene	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
Carbazole	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5
N-Nitrosodimethylamine	<410		410		ug/Kg	☼	05/30/12 13:00	05/30/12 23:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 23:25*	*5*
2-Fluorobiphenyl	*57*		*31 - 130*	*05/30/12 13:00*	*05/30/12 23:25*	*5*
2-Fluorophenol (Surr)	*47*		*10 - 128*	*05/30/12 13:00*	*05/30/12 23:25*	*5*
Nitrobenzene-d5 (Surr)	*44*		*35 - 130*	*05/30/12 13:00*	*05/30/12 23:25*	*5*
Phenol-d5 (Surr)	*44*		*29 - 130*	*05/30/12 13:00*	*05/30/12 23:25*	*5*
Terphenyl-d14 (Surr)	*63*		*37 - 149*	*05/30/12 13:00*	*05/30/12 23:25*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<41		41		ug/Kg	☼	05/30/12 09:00	05/30/12 20:16	5
PCB-1221	<84		84		ug/Kg	☼	05/30/12 09:00	05/30/12 20:16	5
PCB-1232	<41		41		ug/Kg	☼	05/30/12 09:00	05/30/12 20:16	5
PCB-1242	<41		41		ug/Kg	☼	05/30/12 09:00	05/30/12 20:16	5
PCB-1248	<41		41		ug/Kg	☼	05/30/12 09:00	05/30/12 20:16	5
PCB-1254	<41		41		ug/Kg	☼	05/30/12 09:00	05/30/12 20:16	5
PCB-1260	<41		41		ug/Kg	☼	05/30/12 09:00	05/30/12 20:16	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*30 - 150*	*05/30/12 09:00*	*05/30/12 20:16*	*5*
Tetrachloro-m-xylene	*68*		*30 - 150*	*05/30/12 09:00*	*05/30/12 20:16*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Arsenic	**1.6**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Beryllium	<0.40		0.40		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Cadmium	<0.51		0.51		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Chromium	**4.5**		1.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Copper	**7.9**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Lead	**52**		0.76		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Nickel	<4.0		4.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Selenium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Silver	<1.0		1.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Thallium	<1.5	*	1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1
Zinc	**17**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:11	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.059**		0.015		mg/Kg	☼	05/30/12 10:35	05/30/12 23:27	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-5 (0'-3')
Date Collected: 05/29/12 13:58
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-9
Matrix: Solid
Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,1,2-Trichloroethane	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Acetone	<60		60		ug/Kg	☼		05/31/12 21:15	1
Benzene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Bromoform	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Bromomethane	<12		12		ug/Kg	☼		05/31/12 21:15	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Chloroethane	<12		12		ug/Kg	☼		05/31/12 21:15	1
Chloromethane	<12		12		ug/Kg	☼		05/31/12 21:15	1
Chloroform	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
2-Hexanone	<30		30		ug/Kg	☼		05/31/12 21:15	1
Methylene Chloride	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼		05/31/12 21:15	1
2-Butanone (MEK)	<30		30		ug/Kg	☼		05/31/12 21:15	1
o-Xylene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Xylenes, Total	<18		18		ug/Kg	☼		05/31/12 21:15	1
Styrene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Trichloroethene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Toluene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
Vinyl chloride	<12		12		ug/Kg	☼		05/31/12 21:15	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		05/31/12 21:15	1
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		05/31/12 21:15	1
Tetrachloroethene	**57**		6.0		ug/Kg	☼		05/31/12 21:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*111*		*30 - 140*		*05/31/12 21:15*	*1*
4-Bromofluorobenzene	*78*		*30 - 126*		*05/31/12 21:15*	*1*
Toluene-d8 (Surr)	*95*		*42 - 130*		*05/31/12 21:15*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-5 (0'-3')
Date Collected: 05/29/12 13:58
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-9
Matrix: Solid
Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2,4-Dinitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2-Chlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2-Methylnaphthalene	**440**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2-Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
2-Nitrophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
3 & 4 Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
3,3'-Dichlorobenzidine	<790		790		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
4,6-Dinitro-2-methylphenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
4-Chloroaniline	<790		790		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
4-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
4-Nitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Acenaphthene	**610**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Acenaphthylene	**530**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Anthracene	**1900**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Benzidine	<3300		3300		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Benzo[a]anthracene	**6200**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Benzo[a]pyrene	**5900**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Benzo[b]fluoranthene	**7400**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Benzo[g,h,i]perylene	**3800**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Benzo[k]fluoranthene	**2200**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Bis(2-ethylhexyl) phthalate	**1100**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Chrysene	**6900**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Dibenz(a,h)anthracene	**1300**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Dibenzofuran	**750**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Diethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Dimethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Dinoseb	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Fluoranthene	**10000**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Fluorene	**880**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Hexachlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Hexachloroethane	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Indeno[1,2,3-cd]pyrene	**3500**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Isophorone	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-5 (0'-3')
Date Collected: 05/29/12 13:58
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-9
Matrix: Solid
Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Naphthalene	**850**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Nitrobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Pentachlorophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Phenanthrene	**8100**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Phenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Pyrene	**11000**		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5
Carbazole	**2300**		400		ug/Kg	☼	05/30/12 13:00	05/31/12 18:59	5
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/30/12 23:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*54*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 23:56*	*5*
2-Fluorobiphenyl	*52*		*31 - 130*	*05/30/12 13:00*	*05/30/12 23:56*	*5*
2-Fluorophenol (Surr)	*39*		*10 - 128*	*05/30/12 13:00*	*05/30/12 23:56*	*5*
Nitrobenzene-d5 (Surr)	*45*		*35 - 130*	*05/30/12 13:00*	*05/30/12 23:56*	*5*
Phenol-d5 (Surr)	*35*		*29 - 130*	*05/30/12 13:00*	*05/30/12 23:56*	*5*
Terphenyl-d14 (Surr)	*61*		*37 - 149*	*05/30/12 13:00*	*05/30/12 23:56*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<200		200		ug/Kg	☼	05/30/12 09:00	05/31/12 11:08	25
PCB-1221	<400		400		ug/Kg	☼	05/30/12 09:00	05/31/12 11:08	25
PCB-1232	<200		200		ug/Kg	☼	05/30/12 09:00	05/31/12 11:08	25
PCB-1242	<200		200		ug/Kg	☼	05/30/12 09:00	05/31/12 11:08	25
PCB-1248	<200		200		ug/Kg	☼	05/30/12 09:00	05/31/12 11:08	25
PCB-1254	<200		200		ug/Kg	☼	05/30/12 09:00	05/31/12 11:08	25
PCB-1260	**480**		200		ug/Kg	☼	05/30/12 09:00	05/31/12 11:08	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*92*		*30 - 150*	*05/30/12 09:00*	*05/31/12 11:08*	*25*
Tetrachloro-m-xylene	*74*		*30 - 150*	*05/30/12 09:00*	*05/31/12 11:08*	*25*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**3.5**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Arsenic	**6.2**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Cadmium	**7.1**		0.50		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Chromium	**28**		1.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Copper	**330**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Lead	**280**		0.75		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Nickel	**21**		4.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Selenium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Silver	<1.0		1.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Thallium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1
Zinc	**1200**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:14	1

Method: 6010C - Metals (ICP) - RA

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	**0.45**		0.40		mg/Kg	☼	05/30/12 10:10	05/31/12 13:02	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-5 (0'-3')

Lab Sample ID: 700-67982-9

Date Collected: 05/29/12 13:58
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 83.0

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.25**		0.013		mg/Kg	☼	05/30/12 10:35	05/30/12 23:29	1

Client Sample ID: B-5 (3'-6')

Lab Sample ID: 700-67982-10

Date Collected: 05/29/12 14:06
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 75.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,1,1-Trichloroethane	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,1,2-Trichloroethane	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,1-Dichloroethane	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,1-Dichloroethene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,2-Dichloroethane	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,2-Dichlorobenzene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,3-Dichlorobenzene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,4-Dichlorobenzene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
cis-1,2-Dichloroethene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
1,2-Dichloropropane	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Acetone	<65		65		ug/Kg	☼		05/31/12 21:47	1
Benzene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Bromoform	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Bromomethane	<13		13		ug/Kg	☼		05/31/12 21:47	1
Carbon disulfide	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Carbon tetrachloride	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Chlorobenzene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Chlorodibromomethane	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Chloroethane	<13		13		ug/Kg	☼		05/31/12 21:47	1
Chloromethane	<13		13		ug/Kg	☼		05/31/12 21:47	1
Chloroform	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Dichlorobromomethane	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Ethylbenzene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
2-Hexanone	<33		33		ug/Kg	☼		05/31/12 21:47	1
Methylene Chloride	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
4-Methyl-2-pentanone (MIBK)	<33		33		ug/Kg	☼		05/31/12 21:47	1
2-Butanone (MEK)	<33		33		ug/Kg	☼		05/31/12 21:47	1
o-Xylene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Xylenes, Total	<20		20		ug/Kg	☼		05/31/12 21:47	1
Styrene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Trichloroethene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Toluene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
Vinyl chloride	<13		13		ug/Kg	☼		05/31/12 21:47	1
trans-1,3-Dichloropropene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
trans-1,2-Dichloroethene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
cis-1,3-Dichloropropene	<6.5		6.5		ug/Kg	☼		05/31/12 21:47	1
m-Xylene & p-Xylene	<13		13		ug/Kg	☼		05/31/12 21:47	1
Tetrachloroethene	**31**		6.5		ug/Kg	☼		05/31/12 21:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*30 - 140*		*05/31/12 21:47*	*1*
4-Bromofluorobenzene	*85*		*30 - 126*		*05/31/12 21:47*	*1*

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-5 (3'-6')
Date Collected: 05/29/12 14:06
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-10
Matrix: Solid
Percent Solids: 75.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*97*		*42 - 130*		*05/31/12 21:47*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
1,2-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
1,3-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
1,4-Dichlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
1-Methylnaphthalene	**780**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2,4,5-Trichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2,4,6-Trichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2,4-Dichlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2,4-Dimethylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2,4-Dinitrophenol	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2,4-Dinitrotoluene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2,6-Dinitrotoluene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2-Chlorophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2-Methylnaphthalene	**910**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2-Methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2-Nitroaniline	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
2-Nitrophenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
3 & 4 Methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
3,3'-Dichlorobenzidine	<870		870		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
4,6-Dinitro-2-methylphenol	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
4-Bromophenyl phenyl ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
4-Chloro-3-methylphenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
4-Chloroaniline	<870		870		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
4-Chlorophenyl phenyl ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
4-Nitroaniline	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
4-Nitrophenol	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Acenaphthene	**1300**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Acenaphthylene	**860**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Anthracene	**3400**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Benzidine	<3600		3600		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Benzo[a]anthracene	**8600**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Benzo[a]pyrene	**8600**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Benzo[b]fluoranthene	**9900**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Benzo[g,h,i]perylene	**5500**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Benzo[k]fluoranthene	**3400**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Bis(2-chloroethoxy)methane	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Bis(2-chloroethyl)ether	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Bis(2-ethylhexyl) phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Butyl benzyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Chrysene	**9600**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Di-n-butyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Di-n-octyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Dibenz(a,h)anthracene	**1800**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Dibenzofuran	**1600**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Diethyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Dimethyl phthalate	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Dinoseb	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-5 (3'-6')
Date Collected: 05/29/12 14:06
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-10
Matrix: Solid
Percent Solids: 75.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	**16000**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Fluorene	**1900**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Hexachlorobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Hexachlorobutadiene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Hexachlorocyclopentadiene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Hexachloroethane	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Indeno[1,2,3-cd]pyrene	**5100**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Isophorone	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
N-Nitrosodi-n-propylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
N-Nitrosodiphenylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Naphthalene	**1500**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Nitrobenzene	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Pentachlorophenol	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Phenanthrene	**15000**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Phenol	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Pyrene	**16000**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5
Carbazole	**5900**		440		ug/Kg	☼	05/30/12 13:00	05/31/12 19:27	5
N-Nitrosodimethylamine	<440		440		ug/Kg	☼	05/30/12 13:00	05/31/12 00:27	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*5.0 - 130*	*05/30/12 13:00*	*05/31/12 00:27*	*5*
2-Fluorobiphenyl	*56*		*31 - 130*	*05/30/12 13:00*	*05/31/12 00:27*	*5*
2-Fluorophenol (Surr)	*47*		*10 - 128*	*05/30/12 13:00*	*05/31/12 00:27*	*5*
Nitrobenzene-d5 (Surr)	*46*		*35 - 130*	*05/30/12 13:00*	*05/31/12 00:27*	*5*
Phenol-d5 (Surr)	*46*		*29 - 130*	*05/30/12 13:00*	*05/31/12 00:27*	*5*
Terphenyl-d14 (Surr)	*66*		*37 - 149*	*05/30/12 13:00*	*05/31/12 00:27*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 21:19	5
PCB-1221	<89		89		ug/Kg	☼	05/30/12 09:00	05/30/12 21:19	5
PCB-1232	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 21:19	5
PCB-1242	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 21:19	5
PCB-1248	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 21:19	5
PCB-1254	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 21:19	5
PCB-1260	<44		44		ug/Kg	☼	05/30/12 09:00	05/30/12 21:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*45*		*30 - 150*	*05/30/12 09:00*	*05/30/12 21:19*	*5*
Tetrachloro-m-xylene	*55*		*30 - 150*	*05/30/12 09:00*	*05/30/12 21:19*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Arsenic	**4.7**		1.6		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Beryllium	<0.43		0.43		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Cadmium	**0.80**		0.54		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Chromium	**8.3**		1.1		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Copper	**86**		2.2		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Lead	**790**		0.81		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Nickel	**6.1**		4.3		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Selenium	<1.6		1.6		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-5 (3'-6') — **Lab Sample ID: 700-67982-10**
Date Collected: 05/29/12 14:06 — **Matrix: Solid**
Date Received: 05/29/12 16:12 — **Percent Solids: 75.6**

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.1		1.1		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Thallium	<1.6		1.6		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1
Zinc	170		2.2		mg/Kg	☼	05/30/12 10:10	05/30/12 19:17	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	6.8		0.27		mg/Kg	☼	05/30/12 10:35	05/31/12 13:50	20

Client Sample ID: B-6 (0'-3') — **Lab Sample ID: 700-67982-11**
Date Collected: 05/29/12 14:25 — **Matrix: Solid**
Date Received: 05/29/12 16:12 — **Percent Solids: 83.0**

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,1,2-Trichloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Acetone	<60		60		ug/Kg	☼		05/30/12 22:56	1
Benzene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Bromoform	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Bromomethane	<12		12		ug/Kg	☼		05/30/12 22:56	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Chloroethane	<12		12		ug/Kg	☼		05/30/12 22:56	1
Chloromethane	<12		12		ug/Kg	☼		05/30/12 22:56	1
Chloroform	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
2-Hexanone	<30		30		ug/Kg	☼		05/30/12 22:56	1
Methylene Chloride	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼		05/30/12 22:56	1
2-Butanone (MEK)	<30		30		ug/Kg	☼		05/30/12 22:56	1
o-Xylene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Xylenes, Total	<18		18		ug/Kg	☼		05/30/12 22:56	1
Styrene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Trichloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Toluene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
Vinyl chloride	<12		12		ug/Kg	☼		05/30/12 22:56	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-6 (0'-3')
Date Collected: 05/29/12 14:25
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-11
Matrix: Solid
Percent Solids: 83.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		05/30/12 22:56	1
Tetrachloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 22:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*30 - 140*		*05/30/12 22:56*	*1*
4-Bromofluorobenzene	*79*		*30 - 126*		*05/30/12 22:56*	*1*
Toluene-d8 (Surr)	*97*		*42 - 130*		*05/30/12 22:56*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2,4-Dinitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2-Chlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2-Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
2-Nitrophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
3 & 4 Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
3,3'-Dichlorobenzidine	<800		800		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
4,6-Dinitro-2-methylphenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
4-Chloroaniline	<800		800		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
4-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
4-Nitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Acenaphthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Acenaphthylene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Benzidine	<3300		3300		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Chrysene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-6 (0'-3')
Date Collected: 05/29/12 14:25
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-11
Matrix: Solid
Percent Solids: 83.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Dibenzofuran	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Diethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Dimethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Dinoseb	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Fluoranthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Fluorene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Hexachlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Hexachloroethane	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Isophorone	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Naphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Nitrobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Pentachlorophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Phenanthrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Phenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
Carbazole	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 01:41	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*35*		*5.0 - 130*	*05/30/12 13:00*	*05/31/12 01:41*	*5*
2-Fluorobiphenyl	*39*		*31 - 130*	*05/30/12 13:00*	*05/31/12 01:41*	*5*
2-Fluorophenol (Surr)	*37*		*10 - 128*	*05/30/12 13:00*	*05/31/12 01:41*	*5*
Nitrobenzene-d5 (Surr)	*31*	*X*	*35 - 130*	*05/30/12 13:00*	*05/31/12 01:41*	*5*
Phenol-d5 (Surr)	*40*		*29 - 130*	*05/30/12 13:00*	*05/31/12 01:41*	*5*
Terphenyl-d14 (Surr)	*49*		*37 - 149*	*05/30/12 13:00*	*05/31/12 01:41*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 21:50	5
PCB-1221	<81		81		ug/Kg	☼	05/30/12 09:00	05/30/12 21:50	5
PCB-1232	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 21:50	5
PCB-1242	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 21:50	5
PCB-1248	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 21:50	5
PCB-1254	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 21:50	5
PCB-1260	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 21:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*57*		*30 - 150*	*05/30/12 09:00*	*05/30/12 21:50*	*5*
Tetrachloro-m-xylene	*73*		*30 - 150*	*05/30/12 09:00*	*05/30/12 21:50*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Arsenic	**4.3**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Beryllium	<0.40		0.40		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-6 (0'-3')

Lab Sample ID: 700-67982-11

Date Collected: 05/29/12 14:25
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 83.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.49		0.49		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Chromium	**5.8**		0.99		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Copper	**26**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Lead	**260**		0.74		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Nickel	<4.0		4.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Selenium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Silver	<0.99		0.99		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Thallium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1
Zinc	**46**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.16**		0.012		mg/Kg	☼	05/30/12 10:35	05/30/12 23:38	1

Client Sample ID: B-6 (3'-6')

Lab Sample ID: 700-67982-12

Date Collected: 05/29/12 14:32
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 77.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
1,1,1-Trichloroethane	<6.2	*	6.2		ug/Kg	☼		05/30/12 01:43	1
1,1,2-Trichloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
1,1-Dichloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
1,1-Dichloroethene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
1,2-Dichloroethane	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
1,2-Dichlorobenzene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
1,3-Dichlorobenzene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
1,4-Dichlorobenzene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
cis-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
1,2-Dichloropropane	<6.2	*	6.2		ug/Kg	☼		05/30/12 01:43	1
Acetone	<62		62		ug/Kg	☼		05/30/12 01:43	1
Benzene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
Bromoform	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
Bromomethane	<12		12		ug/Kg	☼		05/30/12 01:43	1
Carbon disulfide	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
Carbon tetrachloride	<6.2	*	6.2		ug/Kg	☼		05/30/12 01:43	1
Chlorobenzene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
Chlorodibromomethane	<6.2	*	6.2		ug/Kg	☼		05/30/12 01:43	1
Chloroethane	<12		12		ug/Kg	☼		05/30/12 01:43	1
Chloromethane	<12		12		ug/Kg	☼		05/30/12 01:43	1
Chloroform	<6.2	*	6.2		ug/Kg	☼		05/30/12 01:43	1
Dichlorobromomethane	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
Ethylbenzene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
2-Hexanone	<31		31		ug/Kg	☼		05/30/12 01:43	1
Methylene Chloride	<6.2	*	6.2		ug/Kg	☼		05/30/12 01:43	1
4-Methyl-2-pentanone (MIBK)	<31		31		ug/Kg	☼		05/30/12 01:43	1
2-Butanone (MEK)	<31		31		ug/Kg	☼		05/30/12 01:43	1
o-Xylene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
Xylenes, Total	<19		19		ug/Kg	☼		05/30/12 01:43	1
Styrene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-6 (3'-6')
Date Collected: 05/29/12 14:32
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-12
Matrix: Solid
Percent Solids: 77.9

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<6.2	*	6.2		ug/Kg	☼		05/30/12 01:43	1
Toluene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
Vinyl chloride	<12		12		ug/Kg	☼		05/30/12 01:43	1
trans-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
trans-1,2-Dichloroethene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
cis-1,3-Dichloropropene	<6.2		6.2		ug/Kg	☼		05/30/12 01:43	1
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		05/30/12 01:43	1
Tetrachloroethene	<6.2	*	6.2		ug/Kg	☼		05/30/12 01:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*97*		*30 - 140*		*05/30/12 01:43*	*1*
4-Bromofluorobenzene	*94*		*30 - 126*		*05/30/12 01:43*	*1*
Toluene-d8 (Surr)	*99*		*42 - 130*		*05/30/12 01:43*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
1,2-Dichlorobenzene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
1,3-Dichlorobenzene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
1,4-Dichlorobenzene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
1-Methylnaphthalene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2,4-Dichlorophenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2,4-Dimethylphenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2,4-Dinitrophenol	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2-Chlorophenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2-Methylnaphthalene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2-Methylphenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2-Nitroaniline	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
2-Nitrophenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
3 & 4 Methylphenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
3,3'-Dichlorobenzidine	<850		850		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
4,6-Dinitro-2-methylphenol	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
4-Chloroaniline	<850		850		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
4-Nitroaniline	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
4-Nitrophenol	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Acenaphthene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Acenaphthylene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Anthracene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Benzidine	<3500		3500		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Benzo[a]anthracene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Benzo[a]pyrene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Benzo[b]fluoranthene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Benzo[g,h,i]perylene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-6 (3'-6')
Date Collected: 05/29/12 14:32
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-12
Matrix: Solid
Percent Solids: 77.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Butyl benzyl phthalate	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Chrysene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Di-n-butyl phthalate	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Di-n-octyl phthalate	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Dibenzofuran	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Diethyl phthalate	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Dimethyl phthalate	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Dinoseb	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Fluoranthene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Fluorene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Hexachlorobenzene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Hexachlorobutadiene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Hexachloroethane	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Isophorone	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Naphthalene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Nitrobenzene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Pentachlorophenol	<2200		2200		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Phenanthrene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Phenol	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Pyrene	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
Carbazole	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5
N-Nitrosodimethylamine	<420		420		ug/Kg	☼	05/30/12 13:00	05/31/12 02:09	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*34*		*5.0 - 130*	*05/30/12 13:00*	*05/31/12 02:09*	*5*
2-Fluorobiphenyl	*40*		*31 - 130*	*05/30/12 13:00*	*05/31/12 02:09*	*5*
2-Fluorophenol (Surr)	*32*		*10 - 128*	*05/30/12 13:00*	*05/31/12 02:09*	*5*
Nitrobenzene-d5 (Surr)	*29*	*X*	*35 - 130*	*05/30/12 13:00*	*05/31/12 02:09*	*5*
Phenol-d5 (Surr)	*36*		*29 - 130*	*05/30/12 13:00*	*05/31/12 02:09*	*5*
Terphenyl-d14 (Surr)	*54*		*37 - 149*	*05/30/12 13:00*	*05/31/12 02:09*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<42		42		ug/Kg	☼	05/30/12 09:00	05/30/12 22:21	5
PCB-1221	<86		86		ug/Kg	☼	05/30/12 09:00	05/30/12 22:21	5
PCB-1232	<42		42		ug/Kg	☼	05/30/12 09:00	05/30/12 22:21	5
PCB-1242	<42		42		ug/Kg	☼	05/30/12 09:00	05/30/12 22:21	5
PCB-1248	<42		42		ug/Kg	☼	05/30/12 09:00	05/30/12 22:21	5
PCB-1254	<42		42		ug/Kg	☼	05/30/12 09:00	05/30/12 22:21	5
PCB-1260	<42		42		ug/Kg	☼	05/30/12 09:00	05/30/12 22:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*30 - 150*	*05/30/12 09:00*	*05/30/12 22:21*	*5*
Tetrachloro-m-xylene	*62*		*30 - 150*	*05/30/12 09:00*	*05/30/12 22:21*	*5*

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-6 (3'-6')

Lab Sample ID: 700-67982-12
Date Collected: 05/29/12 14:32
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 77.9

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Arsenic	**2.2**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Beryllium	<0.41		0.41		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Cadmium	<0.51		0.51		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Chromium	**10**		1.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Copper	**4.6**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Lead	**18**		0.76		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Nickel	**5.6**		4.1		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Selenium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Silver	<1.0		1.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Thallium	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1
Zinc	**42**		2.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:24	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.015		0.015		mg/Kg	☼	05/30/12 10:35	05/30/12 23:39	1

Client Sample ID: B-7 (0'-3')

Lab Sample ID: 700-67982-13
Date Collected: 05/29/12 14:53
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 92.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,1,1-Trichloroethane	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,1,2-Trichloroethane	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,1-Dichloroethane	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,1-Dichloroethene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,2-Dichloroethane	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,2-Dichlorobenzene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,3-Dichlorobenzene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,4-Dichlorobenzene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
cis-1,2-Dichloroethene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
1,2-Dichloropropane	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Acetone	<54		54		ug/Kg	☼		05/30/12 23:28	1
Benzene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Bromoform	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Bromomethane	<11		11		ug/Kg	☼		05/30/12 23:28	1
Carbon disulfide	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Carbon tetrachloride	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Chlorobenzene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Chlorodibromomethane	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Chloroethane	<11		11		ug/Kg	☼		05/30/12 23:28	1
Chloromethane	<11		11		ug/Kg	☼		05/30/12 23:28	1
Chloroform	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Dichlorobromomethane	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Ethylbenzene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
2-Hexanone	<27		27		ug/Kg	☼		05/30/12 23:28	1
Methylene Chloride	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
4-Methyl-2-pentanone (MIBK)	<27		27		ug/Kg	☼		05/30/12 23:28	1
2-Butanone (MEK)	<27		27		ug/Kg	☼		05/30/12 23:28	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-7 (0'-3')
Date Collected: 05/29/12 14:53
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-13
Matrix: Solid
Percent Solids: 92.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Xylenes, Total	<16		16		ug/Kg	☼		05/30/12 23:28	1
Styrene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Trichloroethene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Toluene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
Vinyl chloride	<11		11		ug/Kg	☼		05/30/12 23:28	1
trans-1,3-Dichloropropene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
trans-1,2-Dichloroethene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
cis-1,3-Dichloropropene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1
m-Xylene & p-Xylene	<11		11		ug/Kg	☼		05/30/12 23:28	1
Tetrachloroethene	<5.4		5.4		ug/Kg	☼		05/30/12 23:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*30 - 140*		*05/30/12 23:28*	*1*
4-Bromofluorobenzene	*90*		*30 - 126*		*05/30/12 23:28*	*1*
Toluene-d8 (Surr)	*99*		*42 - 130*		*05/30/12 23:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
1-Methylnaphthalene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2,4-Dinitrophenol	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2-Chlorophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2-Methylnaphthalene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2-Methylphenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2-Nitroaniline	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
2-Nitrophenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
3 & 4 Methylphenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
3,3'-Dichlorobenzidine	<710		710		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
4,6-Dinitro-2-methylphenol	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
4-Chloroaniline	<710		710		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
4-Nitroaniline	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
4-Nitrophenol	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Acenaphthene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Acenaphthylene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Anthracene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Benzidine	<2900		2900		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Benzo[a]anthracene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Benzo[a]pyrene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-7 (0'-3')
Date Collected: 05/29/12 14:53
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-13
Matrix: Solid
Percent Solids: 92.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Chrysene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Dibenzofuran	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Diethyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Dimethyl phthalate	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Dinoseb	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Fluoranthene	**530**		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Fluorene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Hexachlorobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Hexachloroethane	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Isophorone	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Naphthalene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Nitrobenzene	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Pentachlorophenol	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Phenanthrene	**410**		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Phenol	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Pyrene	**420**		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
Carbazole	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/30/12 13:00	05/31/12 02:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*39*		*5.0 - 130*	*05/30/12 13:00*	*05/31/12 02:38*	*5*
2-Fluorobiphenyl	*41*		*31 - 130*	*05/30/12 13:00*	*05/31/12 02:38*	*5*
2-Fluorophenol (Surr)	*41*		*10 - 128*	*05/30/12 13:00*	*05/31/12 02:38*	*5*
Nitrobenzene-d5 (Surr)	*35*		*35 - 130*	*05/30/12 13:00*	*05/31/12 02:38*	*5*
Phenol-d5 (Surr)	*40*		*29 - 130*	*05/30/12 13:00*	*05/31/12 02:38*	*5*
Terphenyl-d14 (Surr)	*51*		*37 - 149*	*05/30/12 13:00*	*05/31/12 02:38*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 22:53	5
PCB-1221	<72		72		ug/Kg	☼	05/30/12 09:00	05/30/12 22:53	5
PCB-1232	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 22:53	5
PCB-1242	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 22:53	5
PCB-1248	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 22:53	5
PCB-1254	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 22:53	5
PCB-1260	<36		36		ug/Kg	☼	05/30/12 09:00	05/30/12 22:53	5

Client Sample ID: B-7 (0'-3')

Lab Sample ID: 700-67982-13

Date Collected: 05/29/12 14:53

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 92.6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	51		30 - 150	05/30/12 09:00	05/30/12 22:53	5
Tetrachloro-m-xylene	64		30 - 150	05/30/12 09:00	05/30/12 22:53	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**2.5**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Beryllium	<0.37		0.37		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Cadmium	<0.46		0.46		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Chromium	**7.9**		0.92		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Copper	**45**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Nickel	**10**		3.7		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Selenium	<1.4		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Silver	<0.92		0.92		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Thallium	<1.4		1.4		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1
Zinc	**110**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 19:28	1

Method: 6010C - Metals (ICP) - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11**		6.9		mg/Kg	☼	05/30/12 10:10	05/31/12 13:05	5
Lead	**57**		3.4		mg/Kg	☼	05/30/12 10:10	05/31/12 13:05	5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.013		0.013		mg/Kg	☼	05/30/12 10:35	05/30/12 23:41	1

Client Sample ID: B-7 (3'-6')

Lab Sample ID: 700-67982-14

Date Collected: 05/29/12 15:00

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 82.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,1,2-Trichloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Acetone	<60		60		ug/Kg	☼		05/30/12 23:59	1
Benzene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Bromoform	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Bromomethane	<12		12		ug/Kg	☼		05/30/12 23:59	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Chloroethane	<12		12		ug/Kg	☼		05/30/12 23:59	1
Chloromethane	<12		12		ug/Kg	☼		05/30/12 23:59	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-7 (3'-6')
Date Collected: 05/29/12 15:00
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-14
Matrix: Solid
Percent Solids: 82.6

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
2-Hexanone	<30		30		ug/Kg	☼		05/30/12 23:59	1
Methylene Chloride	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼		05/30/12 23:59	1
2-Butanone (MEK)	<30		30		ug/Kg	☼		05/30/12 23:59	1
o-Xylene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Xylenes, Total	<18		18		ug/Kg	☼		05/30/12 23:59	1
Styrene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Trichloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Toluene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
Vinyl chloride	<12		12		ug/Kg	☼		05/30/12 23:59	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		05/30/12 23:59	1
Tetrachloroethene	<6.0		6.0		ug/Kg	☼		05/30/12 23:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*88*		*30 - 140*		*05/30/12 23:59*	*1*
4-Bromofluorobenzene	*81*		*30 - 126*		*05/30/12 23:59*	*1*
Toluene-d8 (Surr)	*97*		*42 - 130*		*05/30/12 23:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2,4-Dinitrophenol	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2-Chlorophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2-Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2-Nitroaniline	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
2-Nitrophenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
3 & 4 Methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
3,3'-Dichlorobenzidine	<800		800		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
4,6-Dinitro-2-methylphenol	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
4-Chloroaniline	<800		800		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
4-Nitroaniline	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-7 (3'-6')
Date Collected: 05/29/12 15:00
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-14
Matrix: Solid
Percent Solids: 82.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Acenaphthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Acenaphthylene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Benzidine	<3300		3300		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Benzo[a]anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Benzo[a]pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Benzo[b]fluoranthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Benzo[g,h,i]perylene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Benzo[k]fluoranthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Chrysene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Dibenzofuran	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Diethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Dimethyl phthalate	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Dinoseb	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Fluoranthene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Fluorene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Hexachlorobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Hexachloroethane	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Indeno[1,2,3-cd]pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Isophorone	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Naphthalene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Nitrobenzene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Pentachlorophenol	<2100		2100		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Phenanthrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Phenol	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Pyrene	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
Carbazole	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/30/12 13:00	05/31/12 03:07	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*41*		*5.0 - 130*	*05/30/12 13:00*	*05/31/12 03:07*	*5*
2-Fluorobiphenyl	*38*		*31 - 130*	*05/30/12 13:00*	*05/31/12 03:07*	*5*
2-Fluorophenol (Surr)	*37*		*10 - 128*	*05/30/12 13:00*	*05/31/12 03:07*	*5*
Nitrobenzene-d5 (Surr)	*31*	*X*	*35 - 130*	*05/30/12 13:00*	*05/31/12 03:07*	*5*
Phenol-d5 (Surr)	*42*		*29 - 130*	*05/30/12 13:00*	*05/31/12 03:07*	*5*
Terphenyl-d14 (Surr)	*55*		*37 - 149*	*05/30/12 13:00*	*05/31/12 03:07*	*5*

Client Sample ID: B-7 (3'-6')

Date Collected: 05/29/12 15:00
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-14
Matrix: Solid
Percent Solids: 82.6

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 23:24	5
PCB-1221	<81		81		ug/Kg	☼	05/30/12 09:00	05/30/12 23:24	5
PCB-1232	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 23:24	5
PCB-1242	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 23:24	5
PCB-1248	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 23:24	5
PCB-1254	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 23:24	5
PCB-1260	<40		40		ug/Kg	☼	05/30/12 09:00	05/30/12 23:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*30 - 150*	*05/30/12 09:00*	*05/30/12 23:24*	*5*
Tetrachloro-m-xylene	*68*		*30 - 150*	*05/30/12 09:00*	*05/30/12 23:24*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.8		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Arsenic	**1.3**		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Beryllium	<0.35		0.35		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Cadmium	<0.44		0.44		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Chromium	**6.2**		0.88		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Copper	**3.3**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Lead	**24**		0.66		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Nickel	<3.5		3.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Selenium	<1.3		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Silver	<0.88		0.88		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Thallium	<1.3		1.3		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1
Zinc	**15**		1.8		mg/Kg	☼	05/30/12 10:10	05/30/12 19:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.013		mg/Kg	☼	05/30/12 10:35	05/30/12 23:43	1

Client Sample ID: B-8 (0'-3')

Date Collected: 05/29/12 15:20
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-15
Matrix: Solid
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,1,1-Trichloroethane	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,1,2-Trichloroethane	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,1-Dichloroethane	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,1-Dichloroethene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,2-Dichloroethane	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,2-Dichlorobenzene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,3-Dichlorobenzene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,4-Dichlorobenzene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
cis-1,2-Dichloroethene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
1,2-Dichloropropane	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Acetone	<53		53		ug/Kg	☼		06/01/12 00:25	1
Benzene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Bromoform	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Bromomethane	<11		11		ug/Kg	☼		06/01/12 00:25	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-8 (0'-3')
Date Collected: 05/29/12 15:20
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-15
Matrix: Solid
Percent Solids: 94.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Carbon tetrachloride	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Chlorobenzene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Chlorodibromomethane	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Chloroethane	<11		11		ug/Kg	☼		06/01/12 00:25	1
Chloromethane	<11		11		ug/Kg	☼		06/01/12 00:25	1
Chloroform	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Dichlorobromomethane	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Ethylbenzene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
2-Hexanone	<26		26		ug/Kg	☼		06/01/12 00:25	1
Methylene Chloride	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
4-Methyl-2-pentanone (MIBK)	<26		26		ug/Kg	☼		06/01/12 00:25	1
2-Butanone (MEK)	<26		26		ug/Kg	☼		06/01/12 00:25	1
o-Xylene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Xylenes, Total	<16		16		ug/Kg	☼		06/01/12 00:25	1
Styrene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Trichloroethene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Toluene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
Vinyl chloride	<11		11		ug/Kg	☼		06/01/12 00:25	1
trans-1,3-Dichloropropene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
trans-1,2-Dichloroethene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
cis-1,3-Dichloropropene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1
m-Xylene & p-Xylene	<11		11		ug/Kg	☼		06/01/12 00:25	1
Tetrachloroethene	<5.3		5.3		ug/Kg	☼		06/01/12 00:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*97*		*30 - 140*		*06/01/12 00:25*	*1*
4-Bromofluorobenzene	*89*		*30 - 126*		*06/01/12 00:25*	*1*
Toluene-d8 (Surr)	*98*		*42 - 130*		*06/01/12 00:25*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
1,2-Dichlorobenzene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
1,3-Dichlorobenzene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
1,4-Dichlorobenzene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
1-Methylnaphthalene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2,4,5-Trichlorophenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2,4,6-Trichlorophenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2,4-Dichlorophenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2,4-Dimethylphenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2,4-Dinitrophenol	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2,4-Dinitrotoluene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2,6-Dinitrotoluene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2-Chlorophenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2-Methylnaphthalene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2-Methylphenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2-Nitroaniline	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
2-Nitrophenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
3 & 4 Methylphenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
3,3'-Dichlorobenzidine	<700		700		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-8 (0'-3')
Date Collected: 05/29/12 15:20
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-15
Matrix: Solid
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
4-Bromophenyl phenyl ether	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
4-Chloro-3-methylphenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
4-Chloroaniline	<700		700		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
4-Chlorophenyl phenyl ether	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
4-Nitroaniline	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
4-Nitrophenol	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Acenaphthene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Acenaphthylene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Anthracene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Benzidine	<2900		2900		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Benzo[a]anthracene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Benzo[a]pyrene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Benzo[b]fluoranthene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Benzo[g,h,i]perylene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Benzo[k]fluoranthene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Bis(2-chloroethoxy)methane	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Bis(2-chloroethyl)ether	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Bis(2-ethylhexyl) phthalate	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Butyl benzyl phthalate	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Chrysene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Di-n-butyl phthalate	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Di-n-octyl phthalate	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Dibenz(a,h)anthracene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Dibenzofuran	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Diethyl phthalate	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Dimethyl phthalate	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Dinoseb	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Fluoranthene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Fluorene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Hexachlorobenzene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Hexachlorobutadiene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Hexachlorocyclopentadiene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Hexachloroethane	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Indeno[1,2,3-cd]pyrene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Isophorone	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
N-Nitrosodi-n-propylamine	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
N-Nitrosodiphenylamine	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Naphthalene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Nitrobenzene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Pentachlorophenol	<1800		1800		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Phenanthrene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Phenol	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Pyrene	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
Carbazole	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5
N-Nitrosodimethylamine	<350		350		ug/Kg	☼	05/30/12 13:00	05/31/12 03:35	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*43*		*5.0 - 130*	*05/30/12 13:00*	*05/31/12 03:35*	*5*
2-Fluorobiphenyl	*42*		*31 - 130*	*05/30/12 13:00*	*05/31/12 03:35*	*5*
2-Fluorophenol (Surr)	*40*		*10 - 128*	*05/30/12 13:00*	*05/31/12 03:35*	*5*

Client Sample ID: B-8 (0'-3')

Lab Sample ID: 700-67982-15

Date Collected: 05/29/12 15:20
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 94.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5 (Surr)	*30*	*X*	*35 - 130*	*05/30/12 13:00*	*05/31/12 03:35*	*5*
Phenol-d5 (Surr)	*35*		*29 - 130*	*05/30/12 13:00*	*05/31/12 03:35*	*5*
Terphenyl-d14 (Surr)	*59*		*37 - 149*	*05/30/12 13:00*	*05/31/12 03:35*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<35		35		ug/Kg	☼	05/30/12 09:00	05/30/12 23:55	5
PCB-1221	<71		71		ug/Kg	☼	05/30/12 09:00	05/30/12 23:55	5
PCB-1232	<35		35		ug/Kg	☼	05/30/12 09:00	05/30/12 23:55	5
PCB-1242	<35		35		ug/Kg	☼	05/30/12 09:00	05/30/12 23:55	5
PCB-1248	<35		35		ug/Kg	☼	05/30/12 09:00	05/30/12 23:55	5
PCB-1254	<35		35		ug/Kg	☼	05/30/12 09:00	05/30/12 23:55	5
PCB-1260	<35		35		ug/Kg	☼	05/30/12 09:00	05/30/12 23:55	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	*59*		*30 - 150*	*05/30/12 09:00*	*05/30/12 23:55*	*5*
Tetrachloro-m-xylene	*80*		*30 - 150*	*05/30/12 09:00*	*05/30/12 23:55*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**2.4**		1.2		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Beryllium	<0.31		0.31		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Cadmium	<0.39		0.39		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Chromium	**8.3**		0.77		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Copper	**46**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Nickel	**3.6**		3.1		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Selenium	<1.2		1.2		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Silver	<0.77		0.77		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Thallium	<1.2		1.2		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1
Zinc	**110**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:34	1

Method: 6010C - Metals (ICP) - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<7.7		7.7		mg/Kg	☼	05/30/12 10:10	05/31/12 13:08	5
Lead	**66**		2.9		mg/Kg	☼	05/30/12 10:10	05/31/12 13:08	5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.073**		0.011		mg/Kg	☼	05/30/12 10:35	05/30/12 23:45	1

Client Sample ID: B-8 (3'-6')

Lab Sample ID: 700-67982-16

Date Collected: 05/29/12 15:28
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 85.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
1,1,1-Trichloroethane	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
1,1,2-Trichloroethane	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
1,1-Dichloroethane	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
1,1-Dichloroethene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
1,2-Dichloroethane	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-8 (3'-6')
Date Collected: 05/29/12 15:28
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-16
Matrix: Solid
Percent Solids: 85.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
1,3-Dichlorobenzene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
1,4-Dichlorobenzene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
cis-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
1,2-Dichloropropane	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Acetone	<59		59		ug/Kg	☼		05/31/12 23:53	1
Benzene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Bromoform	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Bromomethane	<12		12		ug/Kg	☼		05/31/12 23:53	1
Carbon disulfide	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Carbon tetrachloride	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Chlorobenzene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Chlorodibromomethane	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Chloroethane	<12		12		ug/Kg	☼		05/31/12 23:53	1
Chloromethane	<12		12		ug/Kg	☼		05/31/12 23:53	1
Chloroform	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Dichlorobromomethane	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Ethylbenzene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
2-Hexanone	<29		29		ug/Kg	☼		05/31/12 23:53	1
Methylene Chloride	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼		05/31/12 23:53	1
2-Butanone (MEK)	<29		29		ug/Kg	☼		05/31/12 23:53	1
o-Xylene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Xylenes, Total	<18		18		ug/Kg	☼		05/31/12 23:53	1
Styrene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Trichloroethene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Toluene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
Vinyl chloride	<12		12		ug/Kg	☼		05/31/12 23:53	1
trans-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
trans-1,2-Dichloroethene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
cis-1,3-Dichloropropene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		05/31/12 23:53	1
Tetrachloroethene	<5.9		5.9		ug/Kg	☼		05/31/12 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*104*		*30 - 140*		*05/31/12 23:53*	*1*
4-Bromofluorobenzene	*81*		*30 - 126*		*05/31/12 23:53*	*1*
Toluene-d8 (Surr)	*102*		*42 - 130*		*05/31/12 23:53*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
1,2-Dichlorobenzene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
1,3-Dichlorobenzene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
1,4-Dichlorobenzene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
1-Methylnaphthalene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2,4,5-Trichlorophenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2,4,6-Trichlorophenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2,4-Dichlorophenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2,4-Dimethylphenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2,4-Dinitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-8 (3'-6')
Date Collected: 05/29/12 15:28
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-16
Matrix: Solid
Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dinitrotoluene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2,6-Dinitrotoluene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2-Chlorophenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2-Methylnaphthalene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2-Methylphenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
2-Nitrophenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
3 & 4 Methylphenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
3,3'-Dichlorobenzidine	<770		770		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
4,6-Dinitro-2-methylphenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
4-Bromophenyl phenyl ether	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
4-Chloro-3-methylphenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
4-Chloroaniline	<770		770		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
4-Chlorophenyl phenyl ether	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
4-Nitroaniline	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
4-Nitrophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Acenaphthene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Acenaphthylene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Anthracene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Benzidine	<3200		3200		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Benzo[a]anthracene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Benzo[a]pyrene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Benzo[b]fluoranthene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Benzo[g,h,i]perylene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Benzo[k]fluoranthene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Bis(2-chloroethoxy)methane	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Bis(2-chloroethyl)ether	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Bis(2-ethylhexyl) phthalate	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Butyl benzyl phthalate	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Chrysene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Di-n-butyl phthalate	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Di-n-octyl phthalate	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Dibenz(a,h)anthracene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Dibenzofuran	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Diethyl phthalate	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Dimethyl phthalate	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Dinoseb	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Fluoranthene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Fluorene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Hexachlorobenzene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Hexachlorobutadiene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Hexachlorocyclopentadiene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Hexachloroethane	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Indeno[1,2,3-cd]pyrene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Isophorone	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
N-Nitrosodi-n-propylamine	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
N-Nitrosodiphenylamine	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Naphthalene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Nitrobenzene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Pentachlorophenol	<2000		2000		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Phenanthrene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-8 (3'-6')
Date Collected: 05/29/12 15:28
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-16
Matrix: Solid
Percent Solids: 85.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Phenol	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Pyrene	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
Carbazole	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5
N-Nitrosodimethylamine	<390		390		ug/Kg	☼	05/30/12 13:00	05/31/12 04:04	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*43*		*5.0 - 130*	*05/30/12 13:00*	*05/31/12 04:04*	*5*
2-Fluorobiphenyl	*38*		*31 - 130*	*05/30/12 13:00*	*05/31/12 04:04*	*5*
2-Fluorophenol (Surr)	*34*		*10 - 128*	*05/30/12 13:00*	*05/31/12 04:04*	*5*
Nitrobenzene-d5 (Surr)	*28*	*X*	*35 - 130*	*05/30/12 13:00*	*05/31/12 04:04*	*5*
Phenol-d5 (Surr)	*37*		*29 - 130*	*05/30/12 13:00*	*05/31/12 04:04*	*5*
Terphenyl-d14 (Surr)	*53*		*37 - 149*	*05/30/12 13:00*	*05/31/12 04:04*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<39		39		ug/Kg	☼	05/30/12 09:00	05/31/12 00:26	5
PCB-1221	<79		79		ug/Kg	☼	05/30/12 09:00	05/31/12 00:26	5
PCB-1232	<39		39		ug/Kg	☼	05/30/12 09:00	05/31/12 00:26	5
PCB-1242	<39		39		ug/Kg	☼	05/30/12 09:00	05/31/12 00:26	5
PCB-1248	<39		39		ug/Kg	☼	05/30/12 09:00	05/31/12 00:26	5
PCB-1254	<39		39		ug/Kg	☼	05/30/12 09:00	05/31/12 00:26	5
PCB-1260	<39		39		ug/Kg	☼	05/30/12 09:00	05/31/12 00:26	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*30 - 150*	*05/30/12 09:00*	*05/31/12 00:26*	*5*
Tetrachloro-m-xylene	*59*		*30 - 150*	*05/30/12 09:00*	*05/31/12 00:26*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<1.5		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Arsenic	**1.7**		1.1		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Beryllium	<0.30		0.30		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Cadmium	<0.37		0.37		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Chromium	**5.7**		0.74		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Copper	**5.1**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Lead	**22**		0.56		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Nickel	<3.0		3.0		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Selenium	<1.1		1.1		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Silver	<0.74		0.74		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Thallium	<1.1		1.1		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1
Zinc	**15**		1.5		mg/Kg	☼	05/30/12 10:10	05/30/12 19:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.087**		0.012		mg/Kg	☼	05/30/12 10:35	05/30/12 23:47	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-1
Date Collected: 05/29/12 14:10
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-17
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/12 07:06	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/12 07:06	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/30/12 07:06	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/12 07:06	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			05/30/12 07:06	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/12 07:06	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 07:06	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 07:06	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 07:06	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/12 07:06	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/12 07:06	1
Acetone	<25		25		ug/L			05/30/12 07:06	1
Benzene	<1.0		1.0		ug/L			05/30/12 07:06	1
Bromoform	<1.0		1.0		ug/L			05/30/12 07:06	1
Bromomethane	<1.0		1.0		ug/L			05/30/12 07:06	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/12 07:06	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/12 07:06	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/12 07:06	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/12 07:06	1
Chloroethane	<1.0		1.0		ug/L			05/30/12 07:06	1
Chloromethane	<1.0		1.0		ug/L			05/30/12 07:06	1
Chloroform	<1.0	*	1.0		ug/L			05/30/12 07:06	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/12 07:06	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/12 07:06	1
2-Hexanone	<10		10		ug/L			05/30/12 07:06	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/12 07:06	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/30/12 07:06	1
2-Butanone (MEK)	<10		10		ug/L			05/30/12 07:06	1
o-Xylene	<1.0		1.0		ug/L			05/30/12 07:06	1
Xylenes, Total	<3.0		3.0		ug/L			05/30/12 07:06	1
Styrene	<1.0		1.0		ug/L			05/30/12 07:06	1
Trichloroethene	<1.0		1.0		ug/L			05/30/12 07:06	1
Toluene	<1.0		1.0		ug/L			05/30/12 07:06	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/12 07:06	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/30/12 07:06	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/12 07:06	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/30/12 07:06	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			05/30/12 07:06	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/12 07:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*112*		*66 - 130*		*05/30/12 07:06*	*1*
4-Bromofluorobenzene	*102*		*70 - 130*		*05/30/12 07:06*	*1*
Toluene-d8 (Surr)	*92*		*77 - 130*		*05/30/12 07:06*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
1,2-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
1,3-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
1,4-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-1
Date Collected: 05/29/12 14:10
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-17
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2,4,5-Trichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2,4,6-Trichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2,4-Dichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2,4-Dimethylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2,4-Dinitrophenol	<47		47		ug/L		05/30/12 07:05	05/30/12 14:37	5
2,4-Dinitrotoluene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2,6-Dinitrotoluene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2-Chlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2-Methylnaphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2-Methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
2-Nitroaniline	<47		47		ug/L		05/30/12 07:05	05/30/12 14:37	5
2-Nitrophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
3 & 4 Methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
3,3'-Dichlorobenzidine	<19		19		ug/L		05/30/12 07:05	05/30/12 14:37	5
4,6-Dinitro-2-methylphenol	<47		47		ug/L		05/30/12 07:05	05/30/12 14:37	5
4-Bromophenyl phenyl ether	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
4-Chloro-3-methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
4-Chloroaniline	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
4-Chlorophenyl phenyl ether	<47		47		ug/L		05/30/12 07:05	05/30/12 14:37	5
4-Nitroaniline	<47		47		ug/L		05/30/12 07:05	05/30/12 14:37	5
4-Nitrophenol	<47		47		ug/L		05/30/12 07:05	05/30/12 14:37	5
Acenaphthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Acenaphthylene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Benzidine	<75		75		ug/L		05/30/12 07:05	05/30/12 14:37	5
Benzo[a]anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Benzo[a]pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Benzo[b]fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Benzo[g,h,i]perylene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Benzo[k]fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Bis(2-chloroethoxy)methane	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Bis(2-chloroethyl)ether	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Bis(2-ethylhexyl) phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Butyl benzyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Chrysene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Di-n-butyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Di-n-octyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Dibenz(a,h)anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Dibenzofuran	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Diethyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Dimethyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Dinoseb	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Fluorene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Hexachlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Hexachlorobutadiene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Hexachlorocyclopentadiene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Hexachloroethane	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Indeno[1,2,3-cd]pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Isophorone	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-1
Date Collected: 05/29/12 14:10
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-17
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
N-Nitrosodiphenylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Naphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Nitrobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Pentachlorophenol	<47		47		ug/L		05/30/12 07:05	05/30/12 14:37	5
Phenanthrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Phenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
Carbazole	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5
N-Nitrosodimethylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 14:37	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*52*		*14 - 130*	*05/30/12 07:05*	*05/30/12 14:37*	*5*
2-Fluorobiphenyl	*54*		*34 - 130*	*05/30/12 07:05*	*05/30/12 14:37*	*5*
2-Fluorophenol (Surr)	*39*		*25 - 130*	*05/30/12 07:05*	*05/30/12 14:37*	*5*
Nitrobenzene-d5 (Surr)	*49*		*34 - 132*	*05/30/12 07:05*	*05/30/12 14:37*	*5*
Phenol-d5 (Surr)	*45*		*21 - 130*	*05/30/12 07:05*	*05/30/12 14:37*	*5*
Terphenyl-d14 (Surr)	*28*		*16 - 158*	*05/30/12 07:05*	*05/30/12 14:37*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 10:54	5
PCB-1221	<1.9		1.9		ug/L		05/29/12 19:30	05/30/12 10:54	5
PCB-1232	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 10:54	5
PCB-1242	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 10:54	5
PCB-1248	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 10:54	5
PCB-1254	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 10:54	5
PCB-1260	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 10:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*15*	*X*	*30 - 150*	*05/29/12 19:30*	*05/30/12 10:54*	*5*
Tetrachloro-m-xylene	*43*		*30 - 150*	*05/29/12 19:30*	*05/30/12 10:54*	*5*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.020		0.020		mg/L		05/30/12 09:25	05/30/12 13:56	1
Arsenic	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:56	1
Beryllium	<0.0040		0.0040		mg/L		05/30/12 09:25	05/30/12 13:56	1
Cadmium	<0.0050		0.0050		mg/L		05/30/12 09:25	05/30/12 13:56	1
Chromium	<0.010		0.010		mg/L		05/30/12 09:25	05/30/12 13:56	1
Copper	**0.052**		0.020		mg/L		05/30/12 09:25	05/30/12 13:56	1
Lead	**0.29**		0.0075		mg/L		05/30/12 09:25	05/30/12 13:56	1
Nickel	<0.040		0.040		mg/L		05/30/12 09:25	05/30/12 13:56	1
Selenium	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:56	1
Silver	<0.010		0.010		mg/L		05/30/12 09:25	05/30/12 13:56	1
Thallium	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:56	1
Zinc	**0.16**		0.020		mg/L		05/30/12 09:25	05/30/12 13:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.79**		0.20		ug/L		05/30/12 13:00	05/31/12 12:21	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-2
Date Collected: 05/29/12 14:50
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-18
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/12 07:34	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/12 07:34	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/30/12 07:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/12 07:34	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			05/30/12 07:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/12 07:34	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 07:34	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 07:34	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 07:34	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/12 07:34	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/12 07:34	1
Acetone	<25		25		ug/L			05/30/12 07:34	1
Benzene	<1.0		1.0		ug/L			05/30/12 07:34	1
Bromoform	<1.0		1.0		ug/L			05/30/12 07:34	1
Bromomethane	<1.0		1.0		ug/L			05/30/12 07:34	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/12 07:34	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/12 07:34	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/12 07:34	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/12 07:34	1
Chloroethane	<1.0		1.0		ug/L			05/30/12 07:34	1
Chloromethane	<1.0		1.0		ug/L			05/30/12 07:34	1
Chloroform	<1.0	*	1.0		ug/L			05/30/12 07:34	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/12 07:34	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/12 07:34	1
2-Hexanone	<10		10		ug/L			05/30/12 07:34	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/12 07:34	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/30/12 07:34	1
2-Butanone (MEK)	<10		10		ug/L			05/30/12 07:34	1
o-Xylene	<1.0		1.0		ug/L			05/30/12 07:34	1
Xylenes, Total	<3.0		3.0		ug/L			05/30/12 07:34	1
Styrene	<1.0		1.0		ug/L			05/30/12 07:34	1
Trichloroethene	<1.0		1.0		ug/L			05/30/12 07:34	1
Toluene	<1.0		1.0		ug/L			05/30/12 07:34	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/12 07:34	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/30/12 07:34	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/12 07:34	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/30/12 07:34	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			05/30/12 07:34	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/12 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*114*		*66 - 130*		*05/30/12 07:34*	*1*
4-Bromofluorobenzene	*104*		*70 - 130*		*05/30/12 07:34*	*1*
Toluene-d8 (Surr)	*94*		*77 - 130*		*05/30/12 07:34*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
1,2-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
1,3-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
1,4-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-2
Date Collected: 05/29/12 14:50
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-18
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2,4,5-Trichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2,4,6-Trichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2,4-Dichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2,4-Dimethylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2,4-Dinitrophenol	<46		46		ug/L		05/30/12 07:05	05/30/12 15:08	5
2,4-Dinitrotoluene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2,6-Dinitrotoluene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2-Chlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2-Methylnaphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2-Methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
2-Nitroaniline	<46		46		ug/L		05/30/12 07:05	05/30/12 15:08	5
2-Nitrophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
3 & 4 Methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
3,3'-Dichlorobenzidine	<19		19		ug/L		05/30/12 07:05	05/30/12 15:08	5
4,6-Dinitro-2-methylphenol	<46		46		ug/L		05/30/12 07:05	05/30/12 15:08	5
4-Bromophenyl phenyl ether	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
4-Chloro-3-methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
4-Chloroaniline	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
4-Chlorophenyl phenyl ether	<46		46		ug/L		05/30/12 07:05	05/30/12 15:08	5
4-Nitroaniline	<46		46		ug/L		05/30/12 07:05	05/30/12 15:08	5
4-Nitrophenol	<46		46		ug/L		05/30/12 07:05	05/30/12 15:08	5
Acenaphthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Acenaphthylene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Benzidine	<74		74		ug/L		05/30/12 07:05	05/30/12 15:08	5
Benzo[a]anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Benzo[a]pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Benzo[b]fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Benzo[g,h,i]perylene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Benzo[k]fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Bis(2-chloroethoxy)methane	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Bis(2-chloroethyl)ether	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Bis(2-ethylhexyl) phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Butyl benzyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Chrysene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Di-n-butyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Di-n-octyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Dibenz(a,h)anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Dibenzofuran	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Diethyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Dimethyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Dinoseb	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Fluorene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Hexachlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Hexachlorobutadiene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Hexachlorocyclopentadiene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Hexachloroethane	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Indeno[1,2,3-cd]pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Isophorone	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-2
Date Collected: 05/29/12 14:50
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-18
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
N-Nitrosodiphenylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Naphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Nitrobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Pentachlorophenol	<46		46		ug/L		05/30/12 07:05	05/30/12 15:08	5
Phenanthrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Phenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
Carbazole	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5
N-Nitrosodimethylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:08	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*50*		*14 - 130*	*05/30/12 07:05*	*05/30/12 15:08*	*5*
2-Fluorobiphenyl	*56*		*34 - 130*	*05/30/12 07:05*	*05/30/12 15:08*	*5*
2-Fluorophenol (Surr)	*45*		*25 - 130*	*05/30/12 07:05*	*05/30/12 15:08*	*5*
Nitrobenzene-d5 (Surr)	*51*		*34 - 132*	*05/30/12 07:05*	*05/30/12 15:08*	*5*
Phenol-d5 (Surr)	*42*		*21 - 130*	*05/30/12 07:05*	*05/30/12 15:08*	*5*
Terphenyl-d14 (Surr)	*36*		*16 - 158*	*05/30/12 07:05*	*05/30/12 15:08*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.98		0.98		ug/L		05/29/12 19:30	05/30/12 11:25	5
PCB-1221	<2.0		2.0		ug/L		05/29/12 19:30	05/30/12 11:25	5
PCB-1232	<0.98		0.98		ug/L		05/29/12 19:30	05/30/12 11:25	5
PCB-1242	<0.98		0.98		ug/L		05/29/12 19:30	05/30/12 11:25	5
PCB-1248	<0.98		0.98		ug/L		05/29/12 19:30	05/30/12 11:25	5
PCB-1254	<0.98		0.98		ug/L		05/29/12 19:30	05/30/12 11:25	5
PCB-1260	<0.98		0.98		ug/L		05/29/12 19:30	05/30/12 11:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*24*	*X*	*30 - 150*	*05/29/12 19:30*	*05/30/12 11:25*	*5*
Tetrachloro-m-xylene	*92*		*30 - 150*	*05/29/12 19:30*	*05/30/12 11:25*	*5*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.020		0.020		mg/L		05/30/12 09:25	05/30/12 13:59	1
Arsenic	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:59	1
Beryllium	<0.0040		0.0040		mg/L		05/30/12 09:25	05/30/12 13:59	1
Cadmium	<0.0050		0.0050		mg/L		05/30/12 09:25	05/30/12 13:59	1
Chromium	<0.010		0.010		mg/L		05/30/12 09:25	05/30/12 13:59	1
Copper	**0.022**		0.020		mg/L		05/30/12 09:25	05/30/12 13:59	1
Lead	**0.15**		0.0075		mg/L		05/30/12 09:25	05/30/12 13:59	1
Nickel	<0.040		0.040		mg/L		05/30/12 09:25	05/30/12 13:59	1
Selenium	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:59	1
Silver	<0.010		0.010		mg/L		05/30/12 09:25	05/30/12 13:59	1
Thallium	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:59	1
Zinc	**0.061**		0.020		mg/L		05/30/12 09:25	05/30/12 13:59	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.35**		0.20		ug/L		05/30/12 13:00	05/31/12 12:27	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-3
Date Collected: 05/29/12 15:40
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-19
Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/30/12 08:02	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/30/12 08:02	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/30/12 08:02	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/30/12 08:02	1
1,1-Dichloroethene	<1.0	*	1.0		ug/L			05/30/12 08:02	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/30/12 08:02	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 08:02	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 08:02	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/30/12 08:02	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/12 08:02	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/30/12 08:02	1
Acetone	<25		25		ug/L			05/30/12 08:02	1
Benzene	<1.0		1.0		ug/L			05/30/12 08:02	1
Bromoform	<1.0		1.0		ug/L			05/30/12 08:02	1
Bromomethane	<1.0		1.0		ug/L			05/30/12 08:02	1
Carbon disulfide	<1.0		1.0		ug/L			05/30/12 08:02	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/30/12 08:02	1
Chlorobenzene	<1.0		1.0		ug/L			05/30/12 08:02	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/30/12 08:02	1
Chloroethane	<1.0		1.0		ug/L			05/30/12 08:02	1
Chloromethane	<1.0		1.0		ug/L			05/30/12 08:02	1
Chloroform	<1.0	*	1.0		ug/L			05/30/12 08:02	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/30/12 08:02	1
Ethylbenzene	<1.0		1.0		ug/L			05/30/12 08:02	1
2-Hexanone	<10		10		ug/L			05/30/12 08:02	1
Methylene Chloride	<5.0		5.0		ug/L			05/30/12 08:02	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/30/12 08:02	1
2-Butanone (MEK)	<10		10		ug/L			05/30/12 08:02	1
o-Xylene	<1.0		1.0		ug/L			05/30/12 08:02	1
Xylenes, Total	<3.0		3.0		ug/L			05/30/12 08:02	1
Styrene	<1.0		1.0		ug/L			05/30/12 08:02	1
Trichloroethene	<1.0		1.0		ug/L			05/30/12 08:02	1
Toluene	<1.0		1.0		ug/L			05/30/12 08:02	1
Vinyl chloride	<1.0		1.0		ug/L			05/30/12 08:02	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/30/12 08:02	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/30/12 08:02	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/30/12 08:02	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			05/30/12 08:02	1
Tetrachloroethene	<1.0		1.0		ug/L			05/30/12 08:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*109*		*66 - 130*		*05/30/12 08:02*	*1*
4-Bromofluorobenzene	*102*		*70 - 130*		*05/30/12 08:02*	*1*
Toluene-d8 (Surr)	*93*		*77 - 130*		*05/30/12 08:02*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
1,2-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
1,3-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
1,4-Dichlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-3
Date Collected: 05/29/12 15:40
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-19
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2,4,5-Trichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2,4,6-Trichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2,4-Dichlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2,4-Dimethylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2,4-Dinitrophenol	<46		46		ug/L		05/30/12 07:05	05/30/12 15:39	5
2,4-Dinitrotoluene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2,6-Dinitrotoluene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2-Chlorophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2-Methylnaphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2-Methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
2-Nitroaniline	<46		46		ug/L		05/30/12 07:05	05/30/12 15:39	5
2-Nitrophenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
3 & 4 Methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
3,3'-Dichlorobenzidine	<19		19		ug/L		05/30/12 07:05	05/30/12 15:39	5
4,6-Dinitro-2-methylphenol	<46		46		ug/L		05/30/12 07:05	05/30/12 15:39	5
4-Bromophenyl phenyl ether	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
4-Chloro-3-methylphenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
4-Chloroaniline	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
4-Chlorophenyl phenyl ether	<46		46		ug/L		05/30/12 07:05	05/30/12 15:39	5
4-Nitroaniline	<46		46		ug/L		05/30/12 07:05	05/30/12 15:39	5
4-Nitrophenol	<46		46		ug/L		05/30/12 07:05	05/30/12 15:39	5
Acenaphthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Acenaphthylene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Benzidine	<74		74		ug/L		05/30/12 07:05	05/30/12 15:39	5
Benzo[a]anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Benzo[a]pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Benzo[b]fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Benzo[g,h,i]perylene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Benzo[k]fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Bis(2-chloroethoxy)methane	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Bis(2-chloroethyl)ether	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Bis(2-ethylhexyl) phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Butyl benzyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Chrysene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Di-n-butyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Di-n-octyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Dibenz(a,h)anthracene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Dibenzofuran	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Diethyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Dimethyl phthalate	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Dinoseb	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Fluoranthene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Fluorene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Hexachlorobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Hexachlorobutadiene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Hexachlorocyclopentadiene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Hexachloroethane	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Indeno[1,2,3-cd]pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Isophorone	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-3
Date Collected: 05/29/12 15:40
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-19
Matrix: Water

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
N-Nitrosodiphenylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Naphthalene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Nitrobenzene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Pentachlorophenol	<46		46		ug/L		05/30/12 07:05	05/30/12 15:39	5
Phenanthrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Phenol	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Pyrene	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
Carbazole	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5
N-Nitrosodimethylamine	<9.3		9.3		ug/L		05/30/12 07:05	05/30/12 15:39	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*49*		*14 - 130*	*05/30/12 07:05*	*05/30/12 15:39*	*5*
2-Fluorobiphenyl	*53*		*34 - 130*	*05/30/12 07:05*	*05/30/12 15:39*	*5*
2-Fluorophenol (Surr)	*35*		*25 - 130*	*05/30/12 07:05*	*05/30/12 15:39*	*5*
Nitrobenzene-d5 (Surr)	*43*		*34 - 132*	*05/30/12 07:05*	*05/30/12 15:39*	*5*
Phenol-d5 (Surr)	*38*		*21 - 130*	*05/30/12 07:05*	*05/30/12 15:39*	*5*
Terphenyl-d14 (Surr)	*32*		*16 - 158*	*05/30/12 07:05*	*05/30/12 15:39*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 11:56	5
PCB-1221	<1.9		1.9		ug/L		05/29/12 19:30	05/30/12 11:56	5
PCB-1232	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 11:56	5
PCB-1242	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 11:56	5
PCB-1248	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 11:56	5
PCB-1254	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 11:56	5
PCB-1260	<0.95		0.95		ug/L		05/29/12 19:30	05/30/12 11:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*16*	*X*	*30 - 150*	*05/29/12 19:30*	*05/30/12 11:56*	*5*
Tetrachloro-m-xylene	*80*		*30 - 150*	*05/29/12 19:30*	*05/30/12 11:56*	*5*

Method: 6010C - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.020		0.020		mg/L		05/30/12 09:25	05/30/12 14:03	1
Arsenic	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 14:03	1
Beryllium	<0.0040		0.0040		mg/L		05/30/12 09:25	05/30/12 14:03	1
Cadmium	<0.0050		0.0050		mg/L		05/30/12 09:25	05/30/12 14:03	1
Chromium	<0.010		0.010		mg/L		05/30/12 09:25	05/30/12 14:03	1
Copper	**0.029**		0.020		mg/L		05/30/12 09:25	05/30/12 14:03	1
Lead	**0.22**		0.0075		mg/L		05/30/12 09:25	05/30/12 14:03	1
Nickel	<0.040		0.040		mg/L		05/30/12 09:25	05/30/12 14:03	1
Selenium	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 14:03	1
Silver	<0.010		0.010		mg/L		05/30/12 09:25	05/30/12 14:03	1
Thallium	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 14:03	1
Zinc	**0.090**		0.020		mg/L		05/30/12 09:25	05/30/12 14:03	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/30/12 13:00	05/31/12 12:30	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 700-117500/6
Matrix: Solid
Analysis Batch: 117500

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Acetone	<50		50		ug/Kg			05/29/12 19:54	1
Benzene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Bromoform	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Bromomethane	<10		10		ug/Kg			05/29/12 19:54	1
Carbon disulfide	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Chlorobenzene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Chlorodibromomethane	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Chloroethane	<10		10		ug/Kg			05/29/12 19:54	1
Chloromethane	<10		10		ug/Kg			05/29/12 19:54	1
Chloroform	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Dichlorobromomethane	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Ethylbenzene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
2-Hexanone	<25		25		ug/Kg			05/29/12 19:54	1
Methylene Chloride	<5.0		5.0		ug/Kg			05/29/12 19:54	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg			05/29/12 19:54	1
2-Butanone (MEK)	<25		25		ug/Kg			05/29/12 19:54	1
o-Xylene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Xylenes, Total	<15		15		ug/Kg			05/29/12 19:54	1
Styrene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Trichloroethene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Toluene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
Vinyl chloride	<10		10		ug/Kg			05/29/12 19:54	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/29/12 19:54	1
m-Xylene & p-Xylene	<10		10		ug/Kg			05/29/12 19:54	1
Tetrachloroethene	<5.0		5.0		ug/Kg			05/29/12 19:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*95*		*30 - 140*		*05/29/12 19:54*	*1*
4-Bromofluorobenzene	*93*		*30 - 126*		*05/29/12 19:54*	*1*
Toluene-d8 (Surr)	*114*		*42 - 130*		*05/29/12 19:54*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 700-117500/4
Matrix: Solid
Analysis Batch: 117500

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	21.4		ug/Kg		86	38 - 154
1,1,1-Trichloroethane	25.0	29.4		ug/Kg		118	64 - 148
1,1,2-Trichloroethane	25.0	24.7		ug/Kg		99	50 - 143
1,1-Dichloroethane	25.0	25.3		ug/Kg		101	56 - 148
1,1-Dichloroethene	25.0	32.0		ug/Kg		128	48 - 154
1,2-Dichloroethane	25.0	24.8		ug/Kg		99	58 - 147
1,2-Dichlorobenzene	25.0	24.6		ug/Kg		98	64 - 146
1,3-Dichlorobenzene	25.0	25.3		ug/Kg		101	64 - 135
1,4-Dichlorobenzene	25.0	26.3		ug/Kg		105	49 - 139
cis-1,2-Dichloroethene	25.0	22.7		ug/Kg		91	50 - 150
1,2-Dichloropropane	25.0	23.3		ug/Kg		93	63 - 134
Benzene	25.0	24.3		ug/Kg		97	69 - 137
Bromoform	25.0	23.8		ug/Kg		95	42 - 144
Carbon tetrachloride	25.0	31.4		ug/Kg		125	50 - 150
Chlorobenzene	25.0	25.2		ug/Kg		101	70 - 138
Chlorodibromomethane	25.0	23.3		ug/Kg		93	50 - 137
Chloroform	25.0	26.2		ug/Kg		105	65 - 136
Dichlorobromomethane	25.0	24.3		ug/Kg		97	50 - 150
Ethylbenzene	25.0	24.0		ug/Kg		96	72 - 145
Methylene Chloride	25.0	22.7		ug/Kg		91	58 - 145
o-Xylene	25.0	23.0		ug/Kg		92	50 - 150
Trichloroethene	25.0	28.4		ug/Kg		114	68 - 138
Toluene	25.0	25.3		ug/Kg		101	66 - 141
trans-1,3-Dichloropropene	25.0	22.1		ug/Kg		88	56 - 140
trans-1,2-Dichloroethene	25.0	26.5		ug/Kg		106	61 - 149
cis-1,3-Dichloropropene	25.0	22.5		ug/Kg		90	50 - 150
m-Xylene & p-Xylene	50.0	43.2		ug/Kg		86	50 - 150
Tetrachloroethene	25.0	33.9		ug/Kg		136	61 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*97*		*30 - 140*
4-Bromofluorobenzene	*99*		*30 - 126*
Toluene-d8 (Surr)	*98*		*42 - 130*

Lab Sample ID: LCSD 700-117500/5
Matrix: Solid
Analysis Batch: 117500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	27.5		ug/Kg		110	38 - 154	25	28
1,1,1-Trichloroethane	25.0	38.0	*	ug/Kg		152	64 - 148	25	54
1,1,2-Trichloroethane	25.0	32.4		ug/Kg		130	50 - 143	27	27
1,1-Dichloroethane	25.0	36.1		ug/Kg		144	56 - 148	35	38
1,1-Dichloroethene	25.0	36.8		ug/Kg		147	48 - 154	14	46
1,2-Dichloroethane	25.0	31.6		ug/Kg		126	58 - 147	24	25
1,2-Dichlorobenzene	25.0	30.3		ug/Kg		121	64 - 146	21	28
1,3-Dichlorobenzene	25.0	30.7		ug/Kg		123	64 - 135	20	34
1,4-Dichlorobenzene	25.0	31.2		ug/Kg		125	49 - 139	17	36
cis-1,2-Dichloroethene	25.0	29.4		ug/Kg		117	50 - 150	26	37

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 700-117500/5
Matrix: Solid
Analysis Batch: 117500

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			25.0	32.3	*	ug/Kg		129	63 - 134	32	27
Benzene			25.0	33.7		ug/Kg		135	69 - 137	33	42
Bromoform			25.0	28.7		ug/Kg		115	42 - 144	19	24
Carbon tetrachloride			25.0	38.2	*	ug/Kg		153	50 - 150	20	59
Chlorobenzene			25.0	32.7		ug/Kg		131	70 - 138	26	34
Chlorodibromomethane			25.0	29.8	*	ug/Kg		119	50 - 137	24	22
Chloroform			25.0	35.4	*	ug/Kg		142	65 - 136	30	38
Dichlorobromomethane			25.0	30.9		ug/Kg		124	50 - 150	24	33
Ethylbenzene			25.0	30.7		ug/Kg		123	72 - 145	24	44
Methylene Chloride			25.0	35.6	*	ug/Kg		143	58 - 145	44	32
o-Xylene			25.0	28.5		ug/Kg		114	50 - 150	21	32
Trichloroethene			25.0	35.1	*	ug/Kg		141	68 - 138	21	34
Toluene			25.0	33.0		ug/Kg		132	66 - 141	27	32
trans-1,3-Dichloropropene			25.0	28.1		ug/Kg		112	56 - 140	24	50
trans-1,2-Dichloroethene			25.0	36.1		ug/Kg		145	61 - 149	31	56
cis-1,3-Dichloropropene			25.0	29.4		ug/Kg		118	50 - 150	27	30
m-Xylene & p-Xylene			50.0	54.2		ug/Kg		108	50 - 150	23	43
Tetrachloroethene			25.0	39.1	*	ug/Kg		157	61 - 141	14	44

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane	*101*		*30 - 140*
4-Bromofluorobenzene	*97*		*30 - 126*
Toluene-d8 (Surr)	*96*		*42 - 130*

Lab Sample ID: MB 700-117535/6
Matrix: Water
Analysis Batch: 117535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/29/12 23:39	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/29/12 23:39	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/29/12 23:39	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/29/12 23:39	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/29/12 23:39	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/29/12 23:39	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			05/29/12 23:39	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L			05/29/12 23:39	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			05/29/12 23:39	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/29/12 23:39	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/29/12 23:39	1
Acetone	<25		25		ug/L			05/29/12 23:39	1
Benzene	<1.0		1.0		ug/L			05/29/12 23:39	1
Bromoform	<1.0		1.0		ug/L			05/29/12 23:39	1
Bromomethane	<1.0		1.0		ug/L			05/29/12 23:39	1
Carbon disulfide	<1.0		1.0		ug/L			05/29/12 23:39	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/29/12 23:39	1
Chlorobenzene	<1.0		1.0		ug/L			05/29/12 23:39	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/29/12 23:39	1
Chloroethane	<1.0		1.0		ug/L			05/29/12 23:39	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 700-117535/6
Matrix: Water
Analysis Batch: 117535

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<1.0		1.0		ug/L			05/29/12 23:39	1
Chloroform	<1.0		1.0		ug/L			05/29/12 23:39	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/29/12 23:39	1
Ethylbenzene	<1.0		1.0		ug/L			05/29/12 23:39	1
2-Hexanone	<10		10		ug/L			05/29/12 23:39	1
Methylene Chloride	<5.0		5.0		ug/L			05/29/12 23:39	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/29/12 23:39	1
2-Butanone (MEK)	<10		10		ug/L			05/29/12 23:39	1
o-Xylene	<1.0		1.0		ug/L			05/29/12 23:39	1
Xylenes, Total	<3.0		3.0		ug/L			05/29/12 23:39	1
Styrene	<1.0		1.0		ug/L			05/29/12 23:39	1
Trichloroethene	<1.0		1.0		ug/L			05/29/12 23:39	1
Toluene	<1.0		1.0		ug/L			05/29/12 23:39	1
Vinyl chloride	<1.0		1.0		ug/L			05/29/12 23:39	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/29/12 23:39	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/29/12 23:39	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/29/12 23:39	1
m-Xylene & p-Xylene	<2.0		2.0		ug/L			05/29/12 23:39	1
Tetrachloroethene	<1.0		1.0		ug/L			05/29/12 23:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*112*		*66 - 130*		*05/29/12 23:39*	*1*
4-Bromofluorobenzene	*100*		*70 - 130*		*05/29/12 23:39*	*1*
Toluene-d8 (Surr)	*93*		*77 - 130*		*05/29/12 23:39*	*1*

Lab Sample ID: LCS 700-117535/3
Matrix: Water
Analysis Batch: 117535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	27.6		ug/L		110	63 - 135
1,1,1-Trichloroethane	25.0	27.1		ug/L		108	50 - 150
1,1,2-Trichloroethane	25.0	29.1		ug/L		116	50 - 150
1,1-Dichloroethane	25.0	27.8		ug/L		111	56 - 146
1,1-Dichloroethene	25.0	24.1		ug/L		97	56 - 146
1,2-Dichloroethane	25.0	27.0		ug/L		108	50 - 150
1,2-Dichlorobenzene	25.0	25.4		ug/L		102	54 - 142
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	56 - 142
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	62 - 131
cis-1,2-Dichloroethene	25.0	21.6		ug/L		86	60 - 145
1,2-Dichloropropane	25.0	29.2		ug/L		117	50 - 150
Benzene	25.0	26.4		ug/L		105	68 - 135
Bromoform	25.0	22.4		ug/L		90	54 - 139
Carbon tetrachloride	25.0	26.1		ug/L		104	50 - 150
Chlorobenzene	25.0	25.1		ug/L		100	70 - 132
Chlorodibromomethane	25.0	21.0		ug/L		84	60 - 132
Chloroform	25.0	30.9		ug/L		124	64 - 131
Dichlorobromomethane	25.0	25.7		ug/L		103	50 - 150
Ethylbenzene	25.0	24.7		ug/L		99	70 - 123

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 700-117535/3
Matrix: Water
Analysis Batch: 117535

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	26.8		ug/L		107	62 - 148
o-Xylene	25.0	24.7		ug/L		99	50 - 150
Trichloroethene	25.0	26.4		ug/L		106	67 - 145
Toluene	25.0	25.3		ug/L		101	70 - 133
trans-1,3-Dichloropropene	25.0	16.5		ug/L		66	50 - 150
trans-1,2-Dichloroethene	25.0	26.0		ug/L		104	57 - 145
cis-1,3-Dichloropropene	25.0	19.0		ug/L		76	50 - 150
m-Xylene & p-Xylene	50.0	46.8		ug/L		94	50 - 150
Tetrachloroethene	25.0	24.3		ug/L		97	51 - 154

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*110*		*66 - 130*
4-Bromofluorobenzene	*101*		*70 - 130*
Toluene-d8 (Surr)	*96*		*77 - 130*

Lab Sample ID: LCSD 700-117535/4
Matrix: Water
Analysis Batch: 117535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	26.6		ug/L		107	63 - 135	3	22
1,1,1-Trichloroethane	25.0	29.6		ug/L		119	50 - 150	9	27
1,1,2-Trichloroethane	25.0	28.5		ug/L		114	50 - 150	2	30
1,1-Dichloroethane	25.0	32.2		ug/L		129	56 - 146	15	47
1,1-Dichloroethene	25.0	36.0	*	ug/L		144	56 - 146	39	30
1,2-Dichloroethane	25.0	27.7		ug/L		111	50 - 150	2	23
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	54 - 142	3	39
1,3-Dichlorobenzene	25.0	23.4		ug/L		94	56 - 142	1	29
1,4-Dichlorobenzene	25.0	24.7		ug/L		99	62 - 131	1	29
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	60 - 145	15	28
1,2-Dichloropropane	25.0	30.0		ug/L		120	50 - 150	3	24
Benzene	25.0	28.9		ug/L		116	68 - 135	9	37
Bromoform	25.0	21.6		ug/L		87	54 - 139	3	31
Carbon tetrachloride	25.0	29.0		ug/L		116	50 - 150	11	38
Chlorobenzene	25.0	24.9		ug/L		100	70 - 132	1	22
Chlorodibromomethane	25.0	21.0		ug/L		84	60 - 132	0	31
Chloroform	25.0	33.2	*	ug/L		133	64 - 131	7	20
Dichlorobromomethane	25.0	26.4		ug/L		106	50 - 150	3	28
Ethylbenzene	25.0	25.1		ug/L		100	70 - 123	2	25
Methylene Chloride	25.0	31.1		ug/L		124	62 - 148	15	50
o-Xylene	25.0	25.2		ug/L		101	50 - 150	2	23
Trichloroethene	25.0	28.1		ug/L		112	67 - 145	6	35
Toluene	25.0	26.2		ug/L		105	70 - 133	4	33
trans-1,3-Dichloropropene	25.0	16.4		ug/L		65	50 - 150	1	24
trans-1,2-Dichloroethene	25.0	32.4		ug/L		129	57 - 145	22	22
cis-1,3-Dichloropropene	25.0	18.8		ug/L		75	50 - 150	1	25
m-Xylene & p-Xylene	50.0	47.6		ug/L		95	50 - 150	2	26
Tetrachloroethene	25.0	25.0		ug/L		100	51 - 154	3	24

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 700-117535/4
Matrix: Water
Analysis Batch: 117535

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane	*112*		*66 - 130*
4-Bromofluorobenzene	*103*		*70 - 130*
Toluene-d8 (Surr)	*96*		*77 - 130*

Lab Sample ID: MB 700-117614/6
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Acetone	<50		50		ug/Kg			05/30/12 19:46	1
Benzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Bromoform	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Bromomethane	<10		10		ug/Kg			05/30/12 19:46	1
Carbon disulfide	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Chlorobenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Chlorodibromomethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Chloroethane	<10		10		ug/Kg			05/30/12 19:46	1
Chloromethane	<10		10		ug/Kg			05/30/12 19:46	1
Chloroform	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Dichlorobromomethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Ethylbenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
2-Hexanone	<25		25		ug/Kg			05/30/12 19:46	1
Methylene Chloride	<5.0		5.0		ug/Kg			05/30/12 19:46	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg			05/30/12 19:46	1
2-Butanone (MEK)	<25		25		ug/Kg			05/30/12 19:46	1
o-Xylene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Xylenes, Total	<15		15		ug/Kg			05/30/12 19:46	1
Styrene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Trichloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Toluene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Vinyl chloride	<10		10		ug/Kg			05/30/12 19:46	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
m-Xylene & p-Xylene	<10		10		ug/Kg			05/30/12 19:46	1
Tetrachloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 700-117614/6
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	86		30 - 140		05/30/12 19:46	1
4-Bromofluorobenzene	95		30 - 126		05/30/12 19:46	1
Toluene-d8 (Surr)	101		42 - 130		05/30/12 19:46	1

Lab Sample ID: LCS 700-117614/4
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.3		ug/Kg		89	38 - 154
1,1,1-Trichloroethane	25.0	30.7		ug/Kg		123	64 - 148
1,1,2-Trichloroethane	25.0	26.4		ug/Kg		105	50 - 143
1,1-Dichloroethane	25.0	30.3		ug/Kg		121	56 - 148
1,1-Dichloroethene	25.0	27.6		ug/Kg		110	48 - 154
1,2-Dichloroethane	25.0	25.8		ug/Kg		103	58 - 147
1,2-Dichlorobenzene	25.0	27.2		ug/Kg		109	64 - 146
1,3-Dichlorobenzene	25.0	28.1		ug/Kg		112	64 - 135
1,4-Dichlorobenzene	25.0	28.4		ug/Kg		114	49 - 139
cis-1,2-Dichloroethene	25.0	22.0		ug/Kg		88	50 - 150
1,2-Dichloropropane	25.0	26.3		ug/Kg		105	63 - 134
Benzene	25.0	27.5		ug/Kg		110	69 - 137
Bromoform	25.0	23.9		ug/Kg		96	42 - 144
Carbon tetrachloride	25.0	31.3		ug/Kg		125	50 - 150
Chlorobenzene	25.0	28.8		ug/Kg		115	70 - 138
Chlorodibromomethane	25.0	24.9		ug/Kg		100	50 - 137
Chloroform	25.0	29.8		ug/Kg		119	65 - 136
Dichlorobromomethane	25.0	26.3		ug/Kg		105	50 - 150
Ethylbenzene	25.0	28.3		ug/Kg		113	72 - 145
Methylene Chloride	25.0	23.6		ug/Kg		95	58 - 145
o-Xylene	25.0	26.0		ug/Kg		104	50 - 150
Trichloroethene	25.0	31.2		ug/Kg		125	68 - 138
Toluene	25.0	28.6		ug/Kg		115	66 - 141
trans-1,3-Dichloropropene	25.0	24.0		ug/Kg		96	56 - 140
trans-1,2-Dichloroethene	25.0	31.1		ug/Kg		124	61 - 149
cis-1,3-Dichloropropene	25.0	25.1		ug/Kg		100	50 - 150
m-Xylene & p-Xylene	50.0	49.0		ug/Kg		98	50 - 150
Tetrachloroethene	25.0	31.0		ug/Kg		124	61 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	102		30 - 140
4-Bromofluorobenzene	97		30 - 126
Toluene-d8 (Surr)	99		42 - 130

Lab Sample ID: LCSD 700-117614/5
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	21.3		ug/Kg		85	38 - 154	5	28

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 700-117614/5
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			25.0	30.0		ug/Kg		120	64 - 148	2	54
1,1,2-Trichloroethane			25.0	26.6		ug/Kg		106	50 - 143	1	27
1,1-Dichloroethane			25.0	29.4		ug/Kg		117	56 - 148	3	38
1,1-Dichloroethene			25.0	29.4		ug/Kg		118	48 - 154	6	46
1,2-Dichloroethane			25.0	25.1		ug/Kg		100	58 - 147	3	25
1,2-Dichlorobenzene			25.0	23.9		ug/Kg		95	64 - 146	13	28
1,3-Dichlorobenzene			25.0	24.9		ug/Kg		99	64 - 135	12	34
1,4-Dichlorobenzene			25.0	25.4		ug/Kg		102	49 - 139	11	36
cis-1,2-Dichloroethene			25.0	20.9		ug/Kg		83	50 - 150	5	37
1,2-Dichloropropane			25.0	25.4		ug/Kg		102	63 - 134	3	27
Benzene			25.0	26.5		ug/Kg		106	69 - 137	4	42
Bromoform			25.0	23.3		ug/Kg		93	42 - 144	2	24
Carbon tetrachloride			25.0	30.2		ug/Kg		121	50 - 150	4	59
Chlorobenzene			25.0	26.4		ug/Kg		106	70 - 138	9	34
Chlorodibromomethane			25.0	23.3		ug/Kg		93	50 - 137	7	22
Chloroform			25.0	28.8		ug/Kg		115	65 - 136	4	38
Dichlorobromomethane			25.0	24.9		ug/Kg		100	50 - 150	5	33
Ethylbenzene			25.0	24.6		ug/Kg		98	72 - 145	14	44
Methylene Chloride			25.0	28.3		ug/Kg		113	58 - 145	18	32
o-Xylene			25.0	23.2		ug/Kg		93	50 - 150	11	32
Trichloroethene			25.0	28.7		ug/Kg		115	68 - 138	8	34
Toluene			25.0	26.6		ug/Kg		107	66 - 141	7	32
trans-1,3-Dichloropropene			25.0	22.3		ug/Kg		89	56 - 140	7	50
trans-1,2-Dichloroethene			25.0	28.9		ug/Kg		115	61 - 149	7	56
cis-1,3-Dichloropropene			25.0	23.8		ug/Kg		95	50 - 150	5	30
m-Xylene & p-Xylene			50.0	42.8		ug/Kg		86	50 - 150	13	43
Tetrachloroethene			25.0	27.5		ug/Kg		110	61 - 141	12	44

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane	*101*		*30 - 140*
4-Bromofluorobenzene	*99*		*30 - 126*
Toluene-d8 (Surr)	*99*		*42 - 130*

Lab Sample ID: MB 700-117645/6
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			05/31/12 20:44	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 700-117645/6
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg			05/31/12 20:44	1
Benzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Bromoform	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Bromomethane	<10		10		ug/Kg			05/31/12 20:44	1
Carbon disulfide	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Chlorobenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Chlorodibromomethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Chloroethane	<10		10		ug/Kg			05/31/12 20:44	1
Chloromethane	<10		10		ug/Kg			05/31/12 20:44	1
Chloroform	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Dichlorobromomethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Ethylbenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
2-Hexanone	<25		25		ug/Kg			05/31/12 20:44	1
Methylene Chloride	<5.0		5.0		ug/Kg			05/31/12 20:44	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg			05/31/12 20:44	1
2-Butanone (MEK)	<25		25		ug/Kg			05/31/12 20:44	1
o-Xylene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Xylenes, Total	<15		15		ug/Kg			05/31/12 20:44	1
Styrene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Trichloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Toluene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Vinyl chloride	<10		10		ug/Kg			05/31/12 20:44	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
m-Xylene & p-Xylene	<10		10		ug/Kg			05/31/12 20:44	1
Tetrachloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*110*		*30 - 140*		*05/31/12 20:44*	*1*
4-Bromofluorobenzene	*96*		*30 - 126*		*05/31/12 20:44*	*1*
Toluene-d8 (Surr)	*98*		*42 - 130*		*05/31/12 20:44*	*1*

Lab Sample ID: LCS 700-117645/4
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/Kg		91	38 - 154
1,1,1-Trichloroethane	25.0	25.4		ug/Kg		101	64 - 148
1,1,2-Trichloroethane	25.0	24.7		ug/Kg		99	50 - 143
1,1-Dichloroethane	25.0	32.3		ug/Kg		129	56 - 148
1,1-Dichloroethene	25.0	34.1		ug/Kg		136	48 - 154
1,2-Dichloroethane	25.0	19.3		ug/Kg		77	58 - 147
1,2-Dichlorobenzene	25.0	26.4		ug/Kg		105	64 - 146
1,3-Dichlorobenzene	25.0	25.9		ug/Kg		104	64 - 135
1,4-Dichlorobenzene	25.0	26.5		ug/Kg		106	49 - 139
cis-1,2-Dichloroethene	25.0	23.2		ug/Kg		93	50 - 150

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 700-117645/4
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	24.5		ug/Kg		98	63 - 134
Benzene	25.0	25.8		ug/Kg		103	69 - 137
Bromoform	25.0	22.4		ug/Kg		89	42 - 144
Carbon tetrachloride	25.0	24.2		ug/Kg		97	50 - 150
Chlorobenzene	25.0	28.7		ug/Kg		115	70 - 138
Chlorodibromomethane	25.0	23.9		ug/Kg		96	50 - 137
Chloroform	25.0	32.7		ug/Kg		131	65 - 136
Dichlorobromomethane	25.0	22.4		ug/Kg		89	50 - 150
Ethylbenzene	25.0	26.8		ug/Kg		107	72 - 145
Methylene Chloride	25.0	28.8		ug/Kg		115	58 - 145
o-Xylene	25.0	25.7		ug/Kg		103	50 - 150
Trichloroethene	25.0	28.3		ug/Kg		113	68 - 138
Toluene	25.0	27.0		ug/Kg		108	66 - 141
trans-1,3-Dichloropropene	25.0	21.1		ug/Kg		85	56 - 140
trans-1,2-Dichloroethene	25.0	32.5		ug/Kg		130	61 - 149
cis-1,3-Dichloropropene	25.0	23.4		ug/Kg		93	50 - 150
m-Xylene & p-Xylene	50.0	45.5		ug/Kg		91	50 - 150
Tetrachloroethene	25.0	30.1		ug/Kg		120	61 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*119*		*30 - 140*
4-Bromofluorobenzene	*99*		*30 - 126*
Toluene-d8 (Surr)	*96*		*42 - 130*

Lab Sample ID: LCSD 700-117645/5
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	21.7		ug/Kg		87	38 - 154	4	28
1,1,1-Trichloroethane	25.0	25.6		ug/Kg		103	64 - 148	1	54
1,1,2-Trichloroethane	25.0	24.0		ug/Kg		96	50 - 143	3	27
1,1-Dichloroethane	25.0	30.7		ug/Kg		123	56 - 148	5	38
1,1-Dichloroethene	25.0	32.2		ug/Kg		129	48 - 154	6	46
1,2-Dichloroethane	25.0	20.4		ug/Kg		81	58 - 147	5	25
1,2-Dichlorobenzene	25.0	24.7		ug/Kg		99	64 - 146	7	28
1,3-Dichlorobenzene	25.0	24.2		ug/Kg		97	64 - 135	7	34
1,4-Dichlorobenzene	25.0	24.6		ug/Kg		98	49 - 139	7	36
cis-1,2-Dichloroethene	25.0	22.9		ug/Kg		91	50 - 150	2	37
1,2-Dichloropropane	25.0	23.9		ug/Kg		96	63 - 134	3	27
Benzene	25.0	25.8		ug/Kg		103	69 - 137	0	42
Bromoform	25.0	22.7		ug/Kg		91	42 - 144	1	24
Carbon tetrachloride	25.0	24.6		ug/Kg		99	50 - 150	2	59
Chlorobenzene	25.0	26.8		ug/Kg		107	70 - 138	7	34
Chlorodibromomethane	25.0	23.4		ug/Kg		94	50 - 137	2	22
Chloroform	25.0	31.4		ug/Kg		126	65 - 136	4	38
Dichlorobromomethane	25.0	22.1		ug/Kg		88	50 - 150	1	33
Ethylbenzene	25.0	24.7		ug/Kg		99	72 - 145	8	44
Methylene Chloride	25.0	23.9		ug/Kg		96	58 - 145	19	32

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 700-117645/5
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			25.0	23.0		ug/Kg		92	50 - 150	11	32
Trichloroethene			25.0	27.3		ug/Kg		109	68 - 138	4	34
Toluene			25.0	25.8		ug/Kg		103	66 - 141	4	32
trans-1,3-Dichloropropene			25.0	21.0		ug/Kg		84	56 - 140	1	50
trans-1,2-Dichloroethene			25.0	30.2		ug/Kg		121	61 - 149	7	56
cis-1,3-Dichloropropene			25.0	22.7		ug/Kg		91	50 - 150	3	30
m-Xylene & p-Xylene			50.0	42.2		ug/Kg		84	50 - 150	8	43
Tetrachloroethene			25.0	28.6		ug/Kg		114	61 - 141	5	44

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane	*113*		*30 - 140*
4-Bromofluorobenzene	*96*		*30 - 126*
Toluene-d8 (Surr)	*97*		*42 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 700-117478/1-A
Matrix: Water
Analysis Batch: 117525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
1,2-Dichlorobenzene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
1,3-Dichlorobenzene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
1,4-Dichlorobenzene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
1-Methylnaphthalene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2,4,5-Trichlorophenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2,4,6-Trichlorophenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2,4-Dichlorophenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2,4-Dimethylphenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2,4-Dinitrophenol	<50		50		ug/L		05/30/12 07:05	05/30/12 16:10	5
2,4-Dinitrotoluene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2,6-Dinitrotoluene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2-Chlorophenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2-Methylnaphthalene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2-Methylphenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
2-Nitroaniline	<50		50		ug/L		05/30/12 07:05	05/30/12 16:10	5
2-Nitrophenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
3 & 4 Methylphenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
3,3'-Dichlorobenzidine	<20		20		ug/L		05/30/12 07:05	05/30/12 16:10	5
4,6-Dinitro-2-methylphenol	<50		50		ug/L		05/30/12 07:05	05/30/12 16:10	5
4-Bromophenyl phenyl ether	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
4-Chloro-3-methylphenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
4-Chloroaniline	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
4-Chlorophenyl phenyl ether	<50		50		ug/L		05/30/12 07:05	05/30/12 16:10	5
4-Nitroaniline	<50		50		ug/L		05/30/12 07:05	05/30/12 16:10	5
4-Nitrophenol	<50		50		ug/L		05/30/12 07:05	05/30/12 16:10	5
Acenaphthene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Acenaphthylene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 700-117478/1-A
Matrix: Water
Analysis Batch: 117525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117478

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Benzidine	<80		80		ug/L		05/30/12 07:05	05/30/12 16:10	5
Benzo[a]anthracene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Benzo[a]pyrene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Benzo[b]fluoranthene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Benzo[g,h,i]perylene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Benzo[k]fluoranthene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Bis(2-chloroethoxy)methane	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Bis(2-chloroethyl)ether	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Bis(2-ethylhexyl) phthalate	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Butyl benzyl phthalate	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Chrysene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Di-n-butyl phthalate	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Di-n-octyl phthalate	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Dibenz(a,h)anthracene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Dibenzofuran	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Diethyl phthalate	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Dimethyl phthalate	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Dinoseb	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Fluoranthene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Fluorene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Hexachlorobenzene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Hexachlorobutadiene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Hexachlorocyclopentadiene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Hexachloroethane	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Indeno[1,2,3-cd]pyrene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Isophorone	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
N-Nitrosodi-n-propylamine	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
N-Nitrosodiphenylamine	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Naphthalene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Nitrobenzene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Pentachlorophenol	<50		50		ug/L		05/30/12 07:05	05/30/12 16:10	5
Phenanthrene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Phenol	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Pyrene	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
Carbazole	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5
N-Nitrosodimethylamine	<10		10		ug/L		05/30/12 07:05	05/30/12 16:10	5

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*14 - 130*	*05/30/12 07:05*	*05/30/12 16:10*	*5*
2-Fluorobiphenyl	*76*		*34 - 130*	*05/30/12 07:05*	*05/30/12 16:10*	*5*
2-Fluorophenol (Surr)	*54*		*25 - 130*	*05/30/12 07:05*	*05/30/12 16:10*	*5*
Nitrobenzene-d5 (Surr)	*68*		*34 - 132*	*05/30/12 07:05*	*05/30/12 16:10*	*5*
Phenol-d5 (Surr)	*60*		*21 - 130*	*05/30/12 07:05*	*05/30/12 16:10*	*5*
Terphenyl-d14 (Surr)	*69*		*16 - 158*	*05/30/12 07:05*	*05/30/12 16:10*	*5*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 700-117478/2-A
Matrix: Water
Analysis Batch: 117525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117478

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	50.0	30.9		ug/L		62	34 - 130
1,4-Dichlorobenzene	50.0	31.0		ug/L		62	30 - 130
1-Methylnaphthalene	20.0	17.0		ug/L		85	30 - 140
2,4-Dinitrotoluene	50.0	38.9		ug/L		78	36 - 129
2-Chlorophenol	100	70.0		ug/L		70	45 - 130
2-Nitrophenol	100	76.6		ug/L		77	38 - 130
Acenaphthene	70.0	53.4		ug/L		76	34 - 134
Acenaphthylene	20.0	18.5		ug/L		92	44 - 129
Anthracene	20.0	18.8		ug/L		94	44 - 126
Benzo[a]anthracene	20.0	17.1		ug/L		85	39 - 134
Benzo[a]pyrene	20.0	17.4		ug/L		87	30 - 132
Benzo[b]fluoranthene	20.0	16.5		ug/L		82	34 - 138
Benzo[g,h,i]perylene	20.0	17.7		ug/L		89	32 - 133
Benzo[k]fluoranthene	20.0	13.8		ug/L		69	30 - 147
Bis(2-chloroethoxy)methane	100	77.1		ug/L		77	36 - 140
Bis(2-chloroethyl)ether	100	60.2		ug/L		60	22 - 140
Chrysene	20.0	18.6		ug/L		93	39 - 138
Dibenz(a,h)anthracene	20.0	17.6		ug/L		88	32 - 134
Fluoranthene	20.0	18.5		ug/L		93	39 - 139
Fluorene	20.0	17.4		ug/L		87	41 - 130
Indeno[1,2,3-cd]pyrene	20.0	18.0		ug/L		90	26 - 140
N-Nitrosodi-n-propylamine	50.0	37.7		ug/L		75	38 - 130
Naphthalene	20.0	16.4		ug/L		82	26 - 140
Pentachlorophenol	100	75.8		ug/L		76	34 - 133
Phenanthrene	20.0	18.0		ug/L		90	45 - 129
Phenol	100	55.1		ug/L		55	32 - 130
Pyrene	70.0	52.6		ug/L		75	32 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*14 - 130*
2-Fluorobiphenyl	*80*		*34 - 130*
2-Fluorophenol (Surr)	*66*		*25 - 130*
Nitrobenzene-d5 (Surr)	*74*		*34 - 132*
Phenol-d5 (Surr)	*65*		*21 - 130*
Terphenyl-d14 (Surr)	*70*		*16 - 158*

Lab Sample ID: LCSD 700-117478/3-A
Matrix: Water
Analysis Batch: 117525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117478

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	50.0	30.4		ug/L		61	34 - 130	2	28
1,4-Dichlorobenzene	50.0	30.7		ug/L		61	30 - 130	1	31
1-Methylnaphthalene	20.0	16.5		ug/L		83	30 - 140	3	50
2,4-Dinitrotoluene	50.0	41.2		ug/L		82	36 - 129	6	32
2-Chlorophenol	100	70.0		ug/L		70	45 - 130	0	34
2-Nitrophenol	100	75.0		ug/L		75	38 - 130	2	24
Acenaphthene	70.0	53.6		ug/L		77	34 - 134	0	35
Acenaphthylene	20.0	18.9		ug/L		95	44 - 129	2	28

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 700-117478/3-A
Matrix: Water
Analysis Batch: 117525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117478

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Anthracene			20.0	18.6		ug/L		93	44 - 126	1	21
Benzo[a]anthracene			20.0	17.3		ug/L		87	39 - 134	1	34
Benzo[a]pyrene			20.0	18.7		ug/L		94	30 - 132	8	24
Benzo[b]fluoranthene			20.0	17.4		ug/L		87	34 - 138	6	32
Benzo[g,h,i]perylene			20.0	21.1		ug/L		105	32 - 133	17	39
Benzo[k]fluoranthene			20.0	14.4		ug/L		72	30 - 147	5	34
Bis(2-chloroethoxy)methane			100	76.0		ug/L		76	36 - 140	1	20
Bis(2-chloroethyl)ether			100	61.2		ug/L		61	22 - 140	2	58
Chrysene			20.0	18.8		ug/L		94	39 - 138	1	31
Dibenz(a,h)anthracene			20.0	20.1		ug/L		101	32 - 134	14	35
Fluoranthene			20.0	18.4		ug/L		92	39 - 139	0	24
Fluorene			20.0	17.9		ug/L		90	41 - 130	3	23
Indeno[1,2,3-cd]pyrene			20.0	21.4		ug/L		107	26 - 140	17	38
N-Nitrosodi-n-propylamine			50.0	36.4		ug/L		73	38 - 130	3	30
Naphthalene			20.0	16.4		ug/L		82	26 - 140	0	33
Pentachlorophenol			100	73.5		ug/L		73	34 - 133	3	33
Phenanthrene			20.0	17.8		ug/L		89	45 - 129	1	20
Phenol			100	57.0		ug/L		57	32 - 130	3	36
Pyrene			70.0	50.6		ug/L		72	32 - 130	4	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*87*		*14 - 130*
2-Fluorobiphenyl	*80*		*34 - 130*
2-Fluorophenol (Surr)	*66*		*25 - 130*
Nitrobenzene-d5 (Surr)	*73*		*34 - 132*
Phenol-d5 (Surr)	*67*		*21 - 130*
Terphenyl-d14 (Surr)	*69*		*16 - 158*

Lab Sample ID: MB 700-117503/1-A
Matrix: Solid
Analysis Batch: 117525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
1,2-Dichlorobenzene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
1,3-Dichlorobenzene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
1,4-Dichlorobenzene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
1-Methylnaphthalene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2,4-Dichlorophenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2,4-Dimethylphenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2,4-Dinitrophenol	<1700		1700		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2,4-Dinitrotoluene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2,6-Dinitrotoluene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2-Chlorophenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2-Methylnaphthalene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2-Methylphenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
2-Nitroaniline	<1700		1700		ug/Kg		05/30/12 13:00	05/30/12 18:45	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 700-117503/1-A
Matrix: Solid
Analysis Batch: 117525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117503

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Nitrophenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
3 & 4 Methylphenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
3,3'-Dichlorobenzidine	<660		660		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
4,6-Dinitro-2-methylphenol	<1700		1700		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
4-Chloroaniline	<660		660		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
4-Nitroaniline	<1700		1700		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
4-Nitrophenol	<1700		1700		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Acenaphthene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Acenaphthylene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Anthracene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Benzidine	<2700		2700		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Benzo[a]anthracene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Benzo[a]pyrene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Benzo[b]fluoranthene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Benzo[k]fluoranthene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Butyl benzyl phthalate	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Chrysene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Di-n-butyl phthalate	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Di-n-octyl phthalate	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Dibenzofuran	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Diethyl phthalate	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Dimethyl phthalate	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Dinoseb	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Fluoranthene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Fluorene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Hexachlorobenzene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Hexachlorobutadiene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Hexachloroethane	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Isophorone	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Naphthalene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Nitrobenzene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Pentachlorophenol	<1700		1700		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Phenanthrene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Phenol	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Pyrene	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
Carbazole	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5
N-Nitrosodimethylamine	<330		330		ug/Kg		05/30/12 13:00	05/30/12 18:45	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 700-117503/1-A
Matrix: Solid
Analysis Batch: 117525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117503

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	*51*		*5.0 - 130*	*05/30/12 13:00*	*05/30/12 18:45*	*5*
2-Fluorobiphenyl	*58*		*31 - 130*	*05/30/12 13:00*	*05/30/12 18:45*	*5*
2-Fluorophenol (Surr)	*47*		*10 - 128*	*05/30/12 13:00*	*05/30/12 18:45*	*5*
Nitrobenzene-d5 (Surr)	*45*		*35 - 130*	*05/30/12 13:00*	*05/30/12 18:45*	*5*
Phenol-d5 (Surr)	*52*		*29 - 130*	*05/30/12 13:00*	*05/30/12 18:45*	*5*
Terphenyl-d14 (Surr)	*67*		*37 - 149*	*05/30/12 13:00*	*05/30/12 18:45*	*5*

Lab Sample ID: LCS 700-117503/2-A
Matrix: Solid
Analysis Batch: 117525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117503

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	1670	895		ug/Kg		54	34 - 130
1,4-Dichlorobenzene	1670	860		ug/Kg		52	30 - 130
1-Methylnaphthalene	667	464		ug/Kg		70	30 - 140
2,4-Dinitrotoluene	1670	1180		ug/Kg		71	26 - 130
2-Chlorophenol	3330	1840		ug/Kg		55	36 - 130
2-Nitrophenol	3340	1820		ug/Kg		55	38 - 130
Acenaphthene	2330	1540		ug/Kg		66	34 - 134
Acenaphthylene	667	526		ug/Kg		79	44 - 140
Anthracene	667	577		ug/Kg		87	44 - 126
Benzo[a]anthracene	667	532		ug/Kg		80	39 - 134
Benzo[a]pyrene	667	583		ug/Kg		87	30 - 132
Benzo[b]fluoranthene	667	538		ug/Kg		81	34 - 138
Benzo[g,h,i]perylene	667	648		ug/Kg		97	32 - 133
Benzo[k]fluoranthene	667	441		ug/Kg		66	30 - 147
Bis(2-chloroethoxy)methane	3340	1930		ug/Kg		58	43 - 130
Bis(2-chloroethyl)ether	3340	1480		ug/Kg		44	33 - 130
Chrysene	667	591		ug/Kg		89	39 - 138
Dibenz(a,h)anthracene	667	615		ug/Kg		92	32 - 134
Fluoranthene	667	582		ug/Kg		87	39 - 139
Fluorene	667	522		ug/Kg		78	41 - 130
Indeno[1,2,3-cd]pyrene	667	644		ug/Kg		97	26 - 140
N-Nitrosodi-n-propylamine	1670	924		ug/Kg		55	28 - 130
Naphthalene	667	422		ug/Kg		63	26 - 140
Pentachlorophenol	3330	2170		ug/Kg		65	34 - 133
Phenanthrene	667	553		ug/Kg		83	45 - 129
Phenol	3330	1730		ug/Kg		52	32 - 130
Pyrene	2330	1550		ug/Kg		66	32 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	*77*		*5.0 - 130*
2-Fluorobiphenyl	*64*		*31 - 130*
2-Fluorophenol (Surr)	*55*		*10 - 128*
Nitrobenzene-d5 (Surr)	*53*		*35 - 130*
Phenol-d5 (Surr)	*61*		*29 - 130*
Terphenyl-d14 (Surr)	*65*		*37 - 149*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 700-117503/3-A
Matrix: Solid
Analysis Batch: 117525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117503

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	1670	850		ug/Kg		51	34 - 130	5	22
1,4-Dichlorobenzene	1670	814		ug/Kg		49	30 - 130	5	31
1-Methylnaphthalene	667	456		ug/Kg		68	30 - 140	2	50
2,4-Dinitrotoluene	1670	1190		ug/Kg		71	26 - 130	1	37
2-Chlorophenol	3330	1750		ug/Kg		52	36 - 130	5	38
2-Nitrophenol	3340	1810		ug/Kg		54	38 - 130	1	50
Acenaphthene	2330	1570		ug/Kg		67	34 - 134	2	49
Acenaphthylene	667	533		ug/Kg		80	44 - 140	1	48
Anthracene	667	607		ug/Kg		91	44 - 126	5	27
Benzo[a]anthracene	667	572		ug/Kg		86	39 - 134	7	43
Benzo[a]pyrene	667	591		ug/Kg		89	30 - 132	1	55
Benzo[b]fluoranthene	667	561		ug/Kg		84	34 - 138	4	51
Benzo[g,h,i]perylene	667	606		ug/Kg		91	32 - 133	7	50
Benzo[k]fluoranthene	667	466		ug/Kg		70	30 - 147	6	48
Bis(2-chloroethoxy)methane	3340	1920		ug/Kg		58	43 - 130	0	52
Bis(2-chloroethyl)ether	3340	1420		ug/Kg		43	33 - 130	4	50
Chrysene	667	629		ug/Kg		94	39 - 138	6	41
Dibenz(a,h)anthracene	667	572		ug/Kg		86	32 - 134	7	50
Fluoranthene	667	608		ug/Kg		91	39 - 139	4	50
Fluorene	667	545		ug/Kg		82	41 - 130	4	50
Indeno[1,2,3-cd]pyrene	667	620		ug/Kg		93	26 - 140	4	50
N-Nitrosodi-n-propylamine	1670	927		ug/Kg		56	28 - 130	0	37
Naphthalene	667	415		ug/Kg		62	26 - 140	2	34
Pentachlorophenol	3330	2180		ug/Kg		65	34 - 133	0	55
Phenanthrene	667	571		ug/Kg		86	45 - 129	3	30
Phenol	3330	1690		ug/Kg		51	32 - 130	3	39
Pyrene	2330	1640		ug/Kg		70	32 - 130	6	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*78*		*5.0 - 130*
2-Fluorobiphenyl	*62*		*31 - 130*
2-Fluorophenol (Surr)	*53*		*10 - 128*
Nitrobenzene-d5 (Surr)	*52*		*35 - 130*
Phenol-d5 (Surr)	*61*		*29 - 130*
Terphenyl-d14 (Surr)	*69*		*37 - 149*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 700-117476/1-A
Matrix: Water
Analysis Batch: 117560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<1.0		1.0		ug/L		05/29/12 19:30	05/30/12 09:20	5
PCB-1221	<2.0		2.0		ug/L		05/29/12 19:30	05/30/12 09:20	5
PCB-1232	<1.0		1.0		ug/L		05/29/12 19:30	05/30/12 09:20	5
PCB-1242	<1.0		1.0		ug/L		05/29/12 19:30	05/30/12 09:20	5
PCB-1248	<1.0		1.0		ug/L		05/29/12 19:30	05/30/12 09:20	5

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: MB 700-117476/1-A
Matrix: Water
Analysis Batch: 117560

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117476

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<1.0		1.0		ug/L		05/29/12 19:30	05/30/12 09:20	5
PCB-1260	<1.0		1.0		ug/L		05/29/12 19:30	05/30/12 09:20	5

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*38*		*30 - 150*	*05/29/12 19:30*	*05/30/12 09:20*	*5*
Tetrachloro-m-xylene	*89*		*30 - 150*	*05/29/12 19:30*	*05/30/12 09:20*	*5*

Lab Sample ID: LCS 700-117476/2-A
Matrix: Water
Analysis Batch: 117560

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117476

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			10.0	9.95		ug/L		100	45 - 134		
PCB-1260			10.0	8.79		ug/L		88	41 - 144		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*30 - 150*
Tetrachloro-m-xylene	*91*		*30 - 150*

Lab Sample ID: LCSD 700-117476/3-A
Matrix: Water
Analysis Batch: 117560

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117476

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			10.0	10.1		ug/L		101	45 - 134	1	34
PCB-1260			10.0	9.18		ug/L		92	41 - 144	4	34

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*52*		*30 - 150*
Tetrachloro-m-xylene	*92*		*30 - 150*

Lab Sample ID: 700-67982-19 MS
Matrix: Water
Analysis Batch: 117560

Client Sample ID: TW-3
Prep Type: Total/NA
Prep Batch: 117476

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016	<0.95		20.0	21.0		ug/L		105	45 - 134		
PCB-1260	<0.95		20.0	16.1		ug/L		80	41 - 144		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*29*	*X*	*30 - 150*
Tetrachloro-m-xylene	*99*		*30 - 150*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 700-67982-19 MSD
Matrix: Water
Analysis Batch: 117560

Client Sample ID: TW-3
Prep Type: Total/NA
Prep Batch: 117476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<0.95		20.0	21.1		ug/L		105	45 - 134	1	34
PCB-1260	<0.95		20.0	16.3		ug/L		81	41 - 144	1	34

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*32*		*30 - 150*
Tetrachloro-m-xylene	*102*		*30 - 150*

Lab Sample ID: MB 700-117477/1-A
Matrix: Solid
Analysis Batch: 117623

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<33		33		ug/Kg		05/30/12 09:00	05/30/12 15:04	5
PCB-1221	<67		67		ug/Kg		05/30/12 09:00	05/30/12 15:04	5
PCB-1232	<33		33		ug/Kg		05/30/12 09:00	05/30/12 15:04	5
PCB-1242	<33		33		ug/Kg		05/30/12 09:00	05/30/12 15:04	5
PCB-1248	<33		33		ug/Kg		05/30/12 09:00	05/30/12 15:04	5
PCB-1254	<33		33		ug/Kg		05/30/12 09:00	05/30/12 15:04	5
PCB-1260	<33		33		ug/Kg		05/30/12 09:00	05/30/12 15:04	5

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*69*		*30 - 150*	*05/30/12 09:00*	*05/30/12 15:04*	*5*
Tetrachloro-m-xylene	*59*		*30 - 150*	*05/30/12 09:00*	*05/30/12 15:04*	*5*

Lab Sample ID: LCS 700-117477/2-A
Matrix: Solid
Analysis Batch: 117623

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117477

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			333	255		ug/Kg		77	33 - 130		
PCB-1260			333	273		ug/Kg		82	39 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*69*		*30 - 150*
Tetrachloro-m-xylene	*64*		*30 - 150*

Lab Sample ID: LCSD 700-117477/3-A
Matrix: Solid
Analysis Batch: 117623

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117477

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			333	221		ug/Kg		66	33 - 130	14	44
PCB-1260			333	259		ug/Kg		78	39 - 134	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*68*		*30 - 150*
Tetrachloro-m-xylene	*51*		*30 - 150*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: 700-67982-15 MS
Matrix: Solid
Analysis Batch: 117623

Client Sample ID: B-8 (0'-3')
Prep Type: Total/NA
Prep Batch: 117477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<35		354	312		ug/Kg	☼	88	33 - 130
PCB-1260	<35		354	257		ug/Kg	☼	73	39 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*59*		*30 - 150*
Tetrachloro-m-xylene	*63*		*30 - 150*

Lab Sample ID: 700-67982-15 MSD
Matrix: Solid
Analysis Batch: 117623

Client Sample ID: B-8 (0'-3')
Prep Type: Total/NA
Prep Batch: 117477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<35		354	267		ug/Kg	☼	75	33 - 130	16	44
PCB-1260	<35		354	228		ug/Kg	☼	64	39 - 134	12	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl	*52*		*30 - 150*
Tetrachloro-m-xylene	*58*		*30 - 150*

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 700-117489/1-A
Matrix: Solid
Analysis Batch: 117518

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.0		2.0		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Arsenic	<1.5		1.5		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Beryllium	<0.40		0.40		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Cadmium	<0.50		0.50		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Chromium	<1.0		1.0		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Copper	<2.0		2.0		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Lead	<0.75		0.75		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Nickel	<4.0		4.0		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Selenium	<1.5		1.5		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Silver	<1.0		1.0		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Thallium	<1.5		1.5		mg/Kg		05/30/12 10:10	05/30/12 18:06	1
Zinc	<2.0		2.0		mg/Kg		05/30/12 10:10	05/30/12 18:06	1

Lab Sample ID: LCS 700-117489/2-A
Matrix: Solid
Analysis Batch: 117518

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117489

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	100	96.7		mg/Kg		97	80 - 120
Arsenic	100	100		mg/Kg		100	80 - 120
Beryllium	100	108		mg/Kg		108	80 - 120
Cadmium	100	107		mg/Kg		107	80 - 120

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 700-117489/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117518 — **Prep Batch: 117489**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium	100	111		mg/Kg		111	80 - 120
Copper	100	110		mg/Kg		110	80 - 120
Lead	100	102		mg/Kg		102	80 - 120
Nickel	100	103		mg/Kg		103	80 - 120
Selenium	100	96.4		mg/Kg		96	80 - 120
Silver	100	94.1		mg/Kg		94	80 - 120
Thallium	100	95.9		mg/Kg		96	80 - 120
Zinc	100	105		mg/Kg		105	80 - 120

Lab Sample ID: LCSD 700-117489/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117518 — **Prep Batch: 117489**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	100	89.6		mg/Kg		90	80 - 120	8	20
Arsenic	100	98.9		mg/Kg		99	80 - 120	1	20
Beryllium	100	107		mg/Kg		107	80 - 120	1	20
Cadmium	100	106		mg/Kg		106	80 - 120	2	20
Chromium	100	110		mg/Kg		110	80 - 120	1	20
Copper	100	109		mg/Kg		109	80 - 120	1	20
Lead	100	100		mg/Kg		100	80 - 120	1	20
Nickel	100	102		mg/Kg		102	80 - 120	1	20
Selenium	100	95.4		mg/Kg		95	80 - 120	1	20
Silver	100	92.7		mg/Kg		93	80 - 120	1	20
Zinc	100	104		mg/Kg		104	80 - 120	1	20

Lab Sample ID: 700-67982-1 MS — **Client Sample ID: B-1 (0'-3')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117518 — **Prep Batch: 117489**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11		75.8	83.5		mg/Kg	☼	95	75 - 125
Beryllium	<0.39		75.8	80.7		mg/Kg	☼	106	75 - 125
Cadmium	1.5		75.8	81.1		mg/Kg	☼	105	75 - 125
Chromium	14		75.8	92.5		mg/Kg	☼	104	75 - 125
Lead	220		75.8	281		mg/Kg	☼	79	75 - 125
Nickel	8.7		75.8	81.7		mg/Kg	☼	96	75 - 125
Selenium	<1.4		75.8	71.0		mg/Kg	☼	94	75 - 125
Silver	<0.97		75.8	69.1		mg/Kg	☼	91	75 - 125
Zinc	850		75.8	601	4	mg/Kg	☼	-326	75 - 125

Lab Sample ID: 700-67982-1 MSD — **Client Sample ID: B-1 (0'-3')**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117518 — **Prep Batch: 117489**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11		76.8	86.3		mg/Kg	☼	98	75 - 125	3	20
Beryllium	<0.39		76.8	80.8		mg/Kg	☼	105	75 - 125	0	20
Cadmium	1.5		76.8	81.5		mg/Kg	☼	104	75 - 125	0	20
Chromium	14		76.8	95.7		mg/Kg	☼	107	75 - 125	3	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 700-67982-1 MSD
Matrix: Solid
Analysis Batch: 117518

Client Sample ID: B-1 (0'-3')
Prep Type: Total/NA
Prep Batch: 117489

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	220		76.8	470	F	mg/Kg	☼	325	75 - 125	50	20
Nickel	8.7		76.8	84.5		mg/Kg	☼	99	75 - 125	3	20
Selenium	<1.4		76.8	71.0		mg/Kg	☼	92	75 - 125	0	20
Silver	<0.97		76.8	69.2		mg/Kg	☼	90	75 - 125	0	20
Zinc	850		76.8	937	4	mg/Kg	☼	116	75 - 125	44	20

Lab Sample ID: MB 700-117455/1-A
Matrix: Water
Analysis Batch: 117518

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 117455

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<0.020		0.020		mg/L		05/30/12 09:25	05/30/12 13:47	1
Arsenic	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:47	1
Beryllium	<0.0040		0.0040		mg/L		05/30/12 09:25	05/30/12 13:47	1
Cadmium	<0.0050		0.0050		mg/L		05/30/12 09:25	05/30/12 13:47	1
Chromium	<0.010		0.010		mg/L		05/30/12 09:25	05/30/12 13:47	1
Copper	<0.020		0.020		mg/L		05/30/12 09:25	05/30/12 13:47	1
Lead	<0.0075		0.0075		mg/L		05/30/12 09:25	05/30/12 13:47	1
Nickel	<0.040		0.040		mg/L		05/30/12 09:25	05/30/12 13:47	1
Selenium	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:47	1
Silver	<0.010		0.010		mg/L		05/30/12 09:25	05/30/12 13:47	1
Thallium	<0.015		0.015		mg/L		05/30/12 09:25	05/30/12 13:47	1
Zinc	<0.020		0.020		mg/L		05/30/12 09:25	05/30/12 13:47	1

Lab Sample ID: LCS 700-117455/2-A
Matrix: Water
Analysis Batch: 117518

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 117455

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	1.02		mg/L		102	80 - 120
Arsenic	1.00	1.03		mg/L		103	80 - 120
Beryllium	1.00	1.08		mg/L		108	80 - 120
Cadmium	1.00	1.08		mg/L		108	80 - 120
Chromium	1.00	1.08		mg/L		108	80 - 120
Copper	1.00	1.08		mg/L		108	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120
Nickel	1.00	1.04		mg/L		104	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Silver	1.00	0.977		mg/L		98	80 - 120
Thallium	1.00	0.991		mg/L		99	80 - 120
Zinc	1.00	1.07		mg/L		107	80 - 120

Lab Sample ID: LCSD 700-117455/3-A
Matrix: Water
Analysis Batch: 117518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 117455

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	1.00	1.01		mg/L		101	80 - 120	0	20
Arsenic	1.00	1.03		mg/L		103	80 - 120	1	20
Beryllium	1.00	1.08		mg/L		108	80 - 120	0	20

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCSD 700-117455/3-A
Matrix: Water
Analysis Batch: 117518

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 117455

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cadmium			1.00	1.08		mg/L		108	80 - 120	0	20
Chromium			1.00	1.08		mg/L		108	80 - 120	0	20
Copper			1.00	1.08		mg/L		108	80 - 120	0	20
Lead			1.00	1.03		mg/L		103	80 - 120	0	20
Nickel			1.00	1.03		mg/L		103	80 - 120	0	20
Selenium			1.00	1.03		mg/L		103	80 - 120	0	20
Silver			1.00	0.979		mg/L		98	80 - 120	0	20
Thallium			1.00	0.994		mg/L		99	80 - 120	0	20
Zinc			1.00	1.07		mg/L		107	80 - 120	0	20

Method: 6010C - Metals (ICP) - RA

Lab Sample ID: MB 700-117489/1-A
Matrix: Solid
Analysis Batch: 117585

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117489

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony - RA	<2.0		2.0		mg/Kg		05/30/12 10:10	05/31/12 12:20	1
Arsenic - RA	<1.5		1.5		mg/Kg		05/30/12 10:10	05/31/12 12:20	1
Beryllium - RA	<0.40		0.40		mg/Kg		05/30/12 10:10	05/31/12 12:20	1
Lead - RA	<0.75		0.75		mg/Kg		05/30/12 10:10	05/31/12 12:20	1
Thallium - RA	<1.5		1.5		mg/Kg		05/30/12 10:10	05/31/12 12:20	1

Lab Sample ID: LCS 700-117489/2-A
Matrix: Solid
Analysis Batch: 117585

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117489

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony - RA			100	98.0		mg/Kg		98	80 - 120
Arsenic - RA			100	101		mg/Kg		101	80 - 120
Beryllium - RA			100	99.0		mg/Kg		99	80 - 120
Lead - RA			100	101		mg/Kg		101	80 - 120
Thallium - RA			100	102		mg/Kg		102	80 - 120

Lab Sample ID: LCSD 700-117489/3-A
Matrix: Solid
Analysis Batch: 117585

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117489

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony - RA			100	98.1		mg/Kg		98	80 - 120	0	20
Arsenic - RA			100	101		mg/Kg		101	80 - 120	0	20
Beryllium - RA			100	98.8		mg/Kg		99	80 - 120	0	20
Lead - RA			100	101		mg/Kg		101	80 - 120	0	20
Thallium - RA			100	102		mg/Kg		102	80 - 120	0	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 700-117491/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117561 — **Prep Batch: 117491**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.20		0.20		ug/L		05/30/12 13:00	05/31/12 12:15	1

Lab Sample ID: LCS 700-117491/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117561 — **Prep Batch: 117491**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	4.00	3.89		ug/L		97	80 - 120

Lab Sample ID: LCSD 700-117491/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117561 — **Prep Batch: 117491**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	4.00	3.88		ug/L		97	80 - 120	0	20

Lab Sample ID: 700-67982-17 MS — **Client Sample ID: TW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117561 — **Prep Batch: 117491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.79		4.00	4.97		ug/L		105	80 - 120

Lab Sample ID: 700-67982-17 MSD — **Client Sample ID: TW-1**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 117561 — **Prep Batch: 117491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.79		4.00	4.72		ug/L		98	80 - 120	5	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 700-117483/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117561 — **Prep Batch: 117483**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.014		0.014		mg/Kg		05/30/12 10:35	05/30/12 22:59	1

Lab Sample ID: LCS 700-117483/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117561 — **Prep Batch: 117483**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.267	0.235		mg/Kg		88	80 - 120

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique) (Continued)

Lab Sample ID: LCSD 700-117483/3-A
Matrix: Solid
Analysis Batch: 117561

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117483

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury			0.267	0.220		mg/Kg		82	80 - 120	7	20

Lab Sample ID: 700-67982-1 MS
Matrix: Solid
Analysis Batch: 117561

Client Sample ID: B-1 (0'-3')
Prep Type: Total/NA
Prep Batch: 117483

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.42		0.300	0.833	F	mg/Kg	☼	138	80 - 120		

Lab Sample ID: 700-67982-1 MSD
Matrix: Solid
Analysis Batch: 117561

Client Sample ID: B-1 (0'-3')
Prep Type: Total/NA
Prep Batch: 117483

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.42		0.295	0.862	F	mg/Kg	☼	150	80 - 120	3	20

Client Sample ID: B-1 (0'-3')

Lab Sample ID: 700-67982-1

Date Collected: 05/29/12 10:10

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 83.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	06/01/12 00:56	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 19:47	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 16:38	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 18:24	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:05	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-1 (3'-11')

Lab Sample ID: 700-67982-2

Date Collected: 05/29/12 10:18

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 53.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	05/31/12 22:19	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 20:18	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 17:09	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 18:41	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:15	CL	TAL MOB
Total/NA	Prep	3050B	RA		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RA	1	117585	05/31/12 12:29	ZST	TAL MOB
Total/NA	Prep	3050B	RADL		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RADL	5	117585	05/31/12 12:32	ZST	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-2 (0'-3')

Lab Sample ID: 700-67982-3

Date Collected: 05/29/12 10:53

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	05/31/12 22:50	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 20:49	ES	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 17:06	LNP	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 17:40	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 18:44	ZST	TAL MOB

Client Sample ID: B-2 (0'-3')

Lab Sample ID: 700-67982-3

Date Collected: 05/29/12 10:53

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 91.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:17	CL	TAL MOB
Total/NA	Prep	3050B	RA		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RA	1	117585	05/31/12 12:36	ZST	TAL MOB
Total/NA	Prep	3050B	RADL		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RADL	5	117602	05/31/12 18:23	JAW	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-2 (3'-4.5')

Lab Sample ID: 700-67982-4

Date Collected: 05/29/12 11:03

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 74.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	05/31/12 23:22	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 21:20	ES	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 17:34	LNP	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 18:11	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 18:48	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:19	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-3 (0'-3')

Lab Sample ID: 700-67982-5

Date Collected: 05/29/12 11:38

Matrix: Solid

Date Received: 05/29/12 16:12

Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117500	05/29/12 22:01	KBV	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 21:51	ES	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 18:02	LNP	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 18:43	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 18:51	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:21	CL	TAL MOB
Total/NA	Prep	3050B	RA		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RA	1	117585	05/31/12 12:39	ZST	TAL MOB
Total/NA	Prep	3050B	RADL		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RADL	5	117585	05/31/12 12:42	ZST	TAL MOB

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-3 (0'-3')

Lab Sample ID: 700-67982-5

Date Collected: 05/29/12 11:38
Matrix: Solid
Date Received: 05/29/12 16:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-3 (3'-5.5')

Lab Sample ID: 700-67982-6

Date Collected: 05/29/12 11:55
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 74.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117614	05/30/12 20:49	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 22:23	ES	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 18:31	LNP	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 19:14	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 18:54	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:23	CL	TAL MOB
Total/NA	Prep	3050B	RA		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RA	1	117585	05/31/12 12:45	ZST	TAL MOB
Total/NA	Prep	3050B	RADL		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RADL	5	117585	05/31/12 12:49	ZST	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-4 (0'-3')

Lab Sample ID: 700-67982-7

Date Collected: 05/29/12 13:37
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117500	05/29/12 23:05	KBV	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 22:54	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		10	117632	06/01/12 02:14	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:07	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:25	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-4 (3'-6')

Lab Sample ID: 700-67982-8

Date Collected: 05/29/12 13:43
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 79.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117614	05/30/12 21:21	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 23:25	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 20:16	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:11	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:27	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-5 (0'-3')

Lab Sample ID: 700-67982-9

Date Collected: 05/29/12 13:58
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	05/31/12 21:15	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 23:56	ES	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 18:59	LNP	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		25	117631	05/31/12 11:08	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:14	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:29	CL	TAL MOB
Total/NA	Prep	3050B	RA		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RA	1	117585	05/31/12 13:02	ZST	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-5 (3'-6')

Lab Sample ID: 700-67982-10

Date Collected: 05/29/12 14:06
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	05/31/12 21:47	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/31/12 00:27	ES	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 19:27	LNP	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 21:19	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:17	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB

Client Sample ID: B-5 (3'-6')

Lab Sample ID: 700-67982-10

Date Collected: 05/29/12 14:06
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 75.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		20	117561	05/31/12 13:50	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-6 (0'-3')

Lab Sample ID: 700-67982-11

Date Collected: 05/29/12 14:25
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117614	05/30/12 22:56	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117552	05/31/12 01:41	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 21:50	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:21	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:38	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-6 (3'-6')

Lab Sample ID: 700-67982-12

Date Collected: 05/29/12 14:32
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 77.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117500	05/30/12 01:43	KBV	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117552	05/31/12 02:09	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 22:21	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:24	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:39	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-7 (0'-3')

Lab Sample ID: 700-67982-13

Date Collected: 05/29/12 14:53
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117614	05/30/12 23:28	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117552	05/31/12 02:38	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: B-7 (0'-3')

Lab Sample ID: 700-67982-13

Date Collected: 05/29/12 14:53
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 92.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 22:53	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:28	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:41	CL	TAL MOB
Total/NA	Prep	3050B	RADL		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RADL	5	117585	05/31/12 13:05	ZST	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-7 (3'-6')

Lab Sample ID: 700-67982-14

Date Collected: 05/29/12 15:00
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117614	05/30/12 23:59	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117552	05/31/12 03:07	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 23:24	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:31	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:43	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-8 (0'-3')

Lab Sample ID: 700-67982-15

Date Collected: 05/29/12 15:20
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 94.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	06/01/12 00:25	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117552	05/31/12 03:35	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/30/12 23:55	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:34	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:45	CL	TAL MOB
Total/NA	Prep	3050B	RADL		117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C	RADL	5	117585	05/31/12 13:08	ZST	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: B-8 (3'-6')

Lab Sample ID: 700-67982-16

Date Collected: 05/29/12 15:28
Matrix: Solid
Date Received: 05/29/12 16:12
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	05/31/12 23:53	JH	TAL MOB
Total/NA	Prep	3550C			117503	05/30/12 13:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117552	05/31/12 04:04	ES	TAL MOB
Total/NA	Prep	3550C			117477	05/30/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117623	05/31/12 00:26	LT	TAL MOB
Total/NA	Prep	3050B			117489	05/30/12 10:10	MC	TAL MOB
Total/NA	Analysis	6010C		1	117518	05/30/12 19:38	ZST	TAL MOB
Total/NA	Prep	7471B			117483	05/30/12 10:35	CL	TAL MOB
Total/NA	Analysis	7471B		1	117561	05/30/12 23:47	CL	TAL MOB
Total/NA	Analysis	Moisture		1	117498	05/30/12 11:02	TKN	TAL MOB

Client Sample ID: TW-1

Lab Sample ID: 700-67982-17

Date Collected: 05/29/12 14:10
Matrix: Water
Date Received: 05/29/12 16:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117535	05/30/12 07:06	KBV	TAL MOB
Total/NA	Prep	3520C			117478	05/30/12 07:05	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 14:37	ES	TAL MOB
Total/NA	Prep	3520C			117476	05/29/12 19:30	TV	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117560	05/30/12 10:54	LT	TAL MOB
Total Recoverable	Prep	3005A			117455	05/30/12 09:25	MC	TAL MOB
Total Recoverable	Analysis	6010C		1	117518	05/30/12 13:56	ZST	TAL MOB
Total/NA	Prep	7470A			117491	05/30/12 13:00	DS	TAL MOB
Total/NA	Analysis	7470A		1	117561	05/31/12 12:21	CL	TAL MOB

Client Sample ID: TW-2

Lab Sample ID: 700-67982-18

Date Collected: 05/29/12 14:50
Matrix: Water
Date Received: 05/29/12 16:12

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117535	05/30/12 07:34	KBV	TAL MOB
Total/NA	Prep	3520C			117478	05/30/12 07:05	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 15:08	ES	TAL MOB
Total/NA	Prep	3520C			117476	05/29/12 19:30	TV	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117560	05/30/12 11:25	LT	TAL MOB
Total Recoverable	Prep	3005A			117455	05/30/12 09:25	MC	TAL MOB
Total Recoverable	Analysis	6010C		1	117518	05/30/12 13:59	ZST	TAL MOB
Total/NA	Prep	7470A			117491	05/30/12 13:00	DS	TAL MOB
Total/NA	Analysis	7470A		1	117561	05/31/12 12:27	CL	TAL MOB

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Client Sample ID: TW-3
Date Collected: 05/29/12 15:40
Date Received: 05/29/12 16:12

Lab Sample ID: 700-67982-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117535	05/30/12 08:02	KBV	TAL MOB
Total/NA	Prep	3520C			117478	05/30/12 07:05	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117525	05/30/12 15:39	ES	TAL MOB
Total/NA	Prep	3520C			117476	05/29/12 19:30	TV	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117560	05/30/12 11:56	LT	TAL MOB
Total Recoverable	Prep	3005A			117455	05/30/12 09:25	MC	TAL MOB
Total Recoverable	Analysis	6010C		1	117518	05/30/12 14:03	ZST	TAL MOB
Total/NA	Prep	7470A			117491	05/30/12 13:00	DS	TAL MOB
Total/NA	Analysis	7470A		1	117561	05/31/12 12:30	CL	TAL MOB

Laboratory References:

TAL MOB = TestAmerica Mobile, 900 Lakeside Drive, Mobile, AL 36693, TEL (251)666-6633

Method Summary

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL MOB
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL MOB
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL MOB
6010C	Metals (ICP)	SW846	TAL MOB
7470A	Mercury (CVAA)	SW846	TAL MOB
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL MOB
Moisture	Percent Moisture	EPA	TAL MOB

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL MOB = TestAmerica Mobile, 900 Lakeside Drive, Mobile, AL 36693, TEL (251)666-6633

Sample Summary

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-67982-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
700-67982-1	B-1 (0'-3')	Solid	05/29/12 10:10	05/29/12 16:12
700-67982-2	B-1 (3'-11')	Solid	05/29/12 10:18	05/29/12 16:12
700-67982-3	B-2 (0'-3')	Solid	05/29/12 10:53	05/29/12 16:12
700-67982-4	B-2 (3'-4.5')	Solid	05/29/12 11:03	05/29/12 16:12
700-67982-5	B-3 (0'-3')	Solid	05/29/12 11:38	05/29/12 16:12
700-67982-6	B-3 (3'-5.5')	Solid	05/29/12 11:55	05/29/12 16:12
700-67982-7	B-4 (0'-3')	Solid	05/29/12 13:37	05/29/12 16:12
700-67982-8	B-4 (3'-6')	Solid	05/29/12 13:43	05/29/12 16:12
700-67982-9	B-5 (0'-3')	Solid	05/29/12 13:58	05/29/12 16:12
700-67982-10	B-5 (3'-6')	Solid	05/29/12 14:06	05/29/12 16:12
700-67982-11	B-6 (0'-3')	Solid	05/29/12 14:25	05/29/12 16:12
700-67982-12	B-6 (3'-6')	Solid	05/29/12 14:32	05/29/12 16:12
700-67982-13	B-7 (0'-3')	Solid	05/29/12 14:53	05/29/12 16:12
700-67982-14	B-7 (3'-6')	Solid	05/29/12 15:00	05/29/12 16:12
700-67982-15	B-8 (0'-3')	Solid	05/29/12 15:20	05/29/12 16:12
700-67982-16	B-8 (3'-6')	Solid	05/29/12 15:28	05/29/12 16:12
700-67982-17	TW-1	Water	05/29/12 14:10	05/29/12 16:12
700-67982-18	TW-2	Water	05/29/12 14:50	05/29/12 16:12
700-67982-19	TW-3	Water	05/29/12 15:40	05/29/12 16:12

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/1/2012

Client Information
Client Contact: Mr. Bill Parrish
Company: Thompson Engineering Inc
Address: 2970 Cottage Hill Rd. Suite 190
City: Mobile
State, Zip: AL, 36606
Phone: 251-706-6510(Tel)
Email: bparrish@thompsonengineering.com
Project Name: ALDOT
Site: Bender Shipbuilding

Sampler: Bill Parrish
Phone: (251) 372-7967
Lab PM: Nance, Mike
E-Mail: mike.nance@testamericainc.com
Carrier Tracking No(s):
COC No: 700-27192-5215.1
Page: Page 1 of 3
Job #: 12-2116-0039

Due Date Requested: 72 hours
TAT Requested (days): 3 days
PO #: Purchase Order not required
WO #: 10-4025-0003
Project #: 70005757
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)
Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C - Priority Pollutant Metals by 6010C (ICP)	7471B - Hg	8260C - Target Compound List	8270D - Target Compound List	8081B_8082A - PCBs only	8260C - Target Compound List	6010C - Priority Pollutant Metals by 6010C (ICP)	7470A - Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	A	D	D		
B-1 0'-3'	5/29/12	10:10	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-1 3'-11'	5/29/12	10:18	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-2 0'-3'	5/29/12	1053	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-2 3'-4.5'	5/29/12	1103	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-3 0'-3'	5/29/12	1138	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-3 3'-5.5'	5/29/12	1155	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-4 0'-3'	5/29/12	1337	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-4 3'-6'	5/29/12	1343	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-5 0'-3'	5/29/12	1358	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-5 3'-6'	5/29/12	1406	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-6 0'-3'	5/29/12	1425	C	Solid	N	N	✓	✓	✓	✓	✓				3	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by: | Date: | Time: | Method of Shipment:

	Date/Time	Company		Date/Time	Company
Relinquished by:	5/29/12 4:12		Received by:	5/29/12 1612	
Relinquished by:	5/29/12 1612		Received by:	5/29/12 16 12	
Relinquished by:			Received by:		

Custody Seals Intact: ☐ Yes ☐ No
Custody Seal No.: 700-67582
Cooler Temperature(s) °C and Other Remarks: 3.6°C 4.2°C #5509

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/1/2012

Client Information	Sampler: Bill Parrish	Lab PM: Nance, Mike	Carrier Tracking No(s):	COC No: 700-27192-5215.3
Client Contact: Mr. Bill Parrish	Phone: (251) 372-7967	E-Mail: mike.nance@testamericainc.com		Page: Page 2 of 2
Company: Thompson Engineering Inc				Job #: 12-2116-0039

Address: 2970 Cottage Hill Rd. Suite 190	Due Date Requested: 72 hours
City: Mobile	TAT Requested (days): 3days
State, Zip: AL, 36606	PO #: Purchase Order not required
Phone: 251-706-6510(Tel)	WO #: 10-4025-0003
Email: bparrish@thompsonengineering.com	Project #: 70005757
Project Name: ALDOT	SSOW#:
Site: Bender Shipbuilding	

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C - Priority Pollutant Metals by 6010C (ICP)	7471B - Hg	8260C - Target Compound List	8270D - Target Compound List	8081B_8082A - PCBs only	8260C - Target Compound List	6010C - Priority Pollutant Metals by 6010C (ICP)	7470A - Mercury						Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	A	D	D							
B-6 3'-6'	5/29/12	1432	C	Solid	N	N	✓	✓	✓	✓	✓									3	
B-7 0'-3'	5/29/12	1453	C	Solid	N	N	✓	✓	✓	✓	✓									3	
B-7 3'-6'	5/29/12	1500	C	Solid	N	N	✓	✓	✓	✓	✓									3	
B-8 0'-3'	5/29/12	1520	C	Solid	N	N	✓	✓	✓	✓	✓									3	
B-8 3'-6'	5/29/12	1528	C	Solid	N	N	✓	✓	✓	✓	✓									3	
				Solid																	
				Solid																	
				Solid																	
TW-1	5/29/12	1410	G	Water	N	N				✓	✓	✓	✓	✓						7	
TW-2	5/29/12	1450	G	Water	N	N				✓	✓	✓	✓	✓						7	
TW-3	5/29/12	1540	G	Water	N	N				✓	✓	✓	✓	✓						7	

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

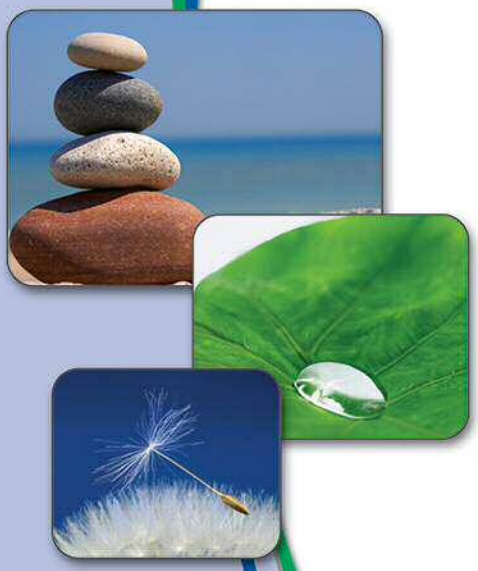
Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 5/29/12 4:12	Company	Received by:	Date/Time: 5/29/12 1612	Company
Relinquished by:	Date/Time: 5/29/12 1612	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 700-67982

Cooler Temperature(s) °C and Other Remarks: 4.2°C 3.6°C # 3509

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Tel: (251)666-6633

TestAmerica Job ID: 700-68015-1
Client Project/Site: ALDOT- Bender Shipbuilding

For:
Thompson Engineering Inc
2970 Cottage Hill Rd.
Suite 190
Mobile, Alabama 36606

Attn: Mr. Bill Parrish



Authorized for release by:
6/4/2012 2:47:55 PM

Mike Nance
Project Manager II
mike.nance@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits
F	RPD of the MS and MSD exceeds the control limits

GC Semi VOA

Qualifier	Qualifier Description
F	RPD of the MS and MSD exceeds the control limits

Metals

Qualifier	Qualifier Description
F	MS or MSD exceeds the control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 700-68015-1

Laboratory: TestAmerica Mobile

Narrative

Job Narrative
700-68015-1

Receipt
The samples were received on 5/30/2012 11:56 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.3º C.

GC/MS VOA
Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 117614 exceeded control criteria for 2 of 43 compounds (95% passing). The method criteria requires a minimum of 80% passing for the analysis of samples. A reporting limit standard (MRL) was analyzed with the batch, and all the affected analytes were detected. The related samples were non-detect for the affected analytes. The data have been qualified and reported.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following sample(s): 67982A3, 67982A4, 67982A9, 67982A10, 67982A16, 68015C7, and 68015C10.B-12 0'-3' (700-68015-7), B-13 3'-6' (700-68015-10). The sample(s) shows evidence of matrix interference.

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 117645 exceeded control criteria for 16 of the 85 compounds (81% passing). The method criteria requires a minimum of 80% passing for the analysis of samples. A reporting limit standard (MRL) was analyzed with the batch, and all the affected analytes were detected. The related samples were non-detect for the affected analytes. The data have been qualified and reported.

Method(s) 8260C: The continuing calibration verification (CCV) for analytical batch 117663 exceeded control criteria for 17 of the 91 compounds (81% passing). The method criteria requires a minimum of 80% passing for the analysis of samples. A reporting limit standard (MRL) was analyzed with the batch, and all the affected analytes were detected. The related samples were non-detect for the affected analytes. The data have been qualified and reported.

Method(s) 8260C: The following samples 68015C1, 68015C2, 68015C4, and 68015C5 was diluted due to the abundance of non-target analytes: B-10 3'-6' (700-68015-4), B-11 0'-3' (700-68015-5), B-9 0'-3' (700-68015-1), B-9 3'-6' (700-68015-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: Internal standard responses were outside of acceptance limits for the following samples: (700-68015-11 MS), B-14 0'-3' (700-68015-11), B-14 3'- (700-68015-12), B-15 3'-5.5' (700-68015-14). The samples show evidence of matrix interference; verified by reanalysis with concurring results.

No other analytical or quality issues were noted.

GC/MS Semi VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8081B/8082A: Internal standard (ISTD) response for the following sample(s) was outside control limits: (700-68015-13 MS), (700-68015-13 MSD), B-10 0'-3' (700-68015-3), B-10 3'-6' (700-68015-4), B-11 0'-3' (700-68015-5), B-11 3'-6' (700-68015-6), B-12 0'-3' (700-68015-7), B-12 3'-6' (700-68015-8), B-13 0'-3' (700-68015-9), B-13 3'-6' (700-68015-10), B-14 0'-3' (700-68015-11), B-14 3'- (700-68015-12), B-15 3'-5.5' (700-68015-14), B-9 0'-3' (700-68015-1), B-9 3'-6' (700-68015-2). The sample(s) was re-analyzed with concurring results. The original set of data has been reported.

No other analytical or quality issues were noted.

Metals
Method(s) 6010C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 700-117526 were outside control limits for antimony. The associated laboratory control sample (LCS/LCSD) recovery met acceptance criteria.

Method(s) 6010C: The following sample(s) was diluted due to the abundance of non-target analytes: B-11 0'-3' (700-68015-5), B-9 3'-6' (700-68015-2). Elevated reporting limits (RLs) are provided for antimony and lead.

Job ID: 700-68015-1 (Continued)

Laboratory: TestAmerica Mobile (Continued)

No other analytical or quality issues were noted.

General Chemistry
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

VOA Prep
No analytical or quality issues were noted.

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-9 0'-3'
Date Collected: 05/30/12 08:01
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-1
Matrix: Solid
Percent Solids: 92.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,1,1-Trichloroethane	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,1,2-Trichloroethane	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,1-Dichloroethane	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,1-Dichloroethene	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,2-Dichloroethane	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,2-Dichlorobenzene	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,3-Dichlorobenzene	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,4-Dichlorobenzene	<270		270		ug/Kg	☼		05/31/12 14:55	50
cis-1,2-Dichloroethene	<270		270		ug/Kg	☼		05/31/12 14:55	50
1,2-Dichloropropane	<270		270		ug/Kg	☼		05/31/12 14:55	50
Acetone	<2700		2700		ug/Kg	☼		05/31/12 14:55	50
Benzene	<270		270		ug/Kg	☼		05/31/12 14:55	50
Bromoform	<270		270		ug/Kg	☼		05/31/12 14:55	50
Bromomethane	<540		540		ug/Kg	☼		05/31/12 14:55	50
Carbon disulfide	<270		270		ug/Kg	☼		05/31/12 14:55	50
Carbon tetrachloride	<270		270		ug/Kg	☼		05/31/12 14:55	50
Chlorobenzene	<270		270		ug/Kg	☼		05/31/12 14:55	50
Chlorodibromomethane	<270		270		ug/Kg	☼		05/31/12 14:55	50
Chloroethane	<540		540		ug/Kg	☼		05/31/12 14:55	50
Chloromethane	<540		540		ug/Kg	☼		05/31/12 14:55	50
Chloroform	<270		270		ug/Kg	☼		05/31/12 14:55	50
Dichlorobromomethane	<270		270		ug/Kg	☼		05/31/12 14:55	50
Ethylbenzene	<270		270		ug/Kg	☼		05/31/12 14:55	50
2-Hexanone	<1300		1300		ug/Kg	☼		05/31/12 14:55	50
Methylene Chloride	<270		270		ug/Kg	☼		05/31/12 14:55	50
4-Methyl-2-pentanone (MIBK)	<1300		1300		ug/Kg	☼		05/31/12 14:55	50
2-Butanone (MEK)	<1300		1300		ug/Kg	☼		05/31/12 14:55	50
o-Xylene	<270		270		ug/Kg	☼		05/31/12 14:55	50
Xylenes, Total	<810		810		ug/Kg	☼		05/31/12 14:55	50
Styrene	<270		270		ug/Kg	☼		05/31/12 14:55	50
Trichloroethene	<270		270		ug/Kg	☼		05/31/12 14:55	50
Toluene	<270		270		ug/Kg	☼		05/31/12 14:55	50
Vinyl chloride	<540		540		ug/Kg	☼		05/31/12 14:55	50
trans-1,3-Dichloropropene	<270		270		ug/Kg	☼		05/31/12 14:55	50
trans-1,2-Dichloroethene	<270		270		ug/Kg	☼		05/31/12 14:55	50
cis-1,3-Dichloropropene	<270		270		ug/Kg	☼		05/31/12 14:55	50
m-Xylene & p-Xylene	<540		540		ug/Kg	☼		05/31/12 14:55	50
Tetrachloroethene	<270		270		ug/Kg	☼		05/31/12 14:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*114*		*30 - 140*		*05/31/12 14:55*	*50*
4-Bromofluorobenzene	*109*		*30 - 126*		*05/31/12 14:55*	*50*
Toluene-d8 (Surr)	*99*		*42 - 130*		*05/31/12 14:55*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-9 0'-3'
Date Collected: 05/30/12 08:01
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-1
Matrix: Solid
Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**690**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2,4-Dinitrophenol	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2-Chlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2-Methylnaphthalene	**1200**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2-Methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2-Nitroaniline	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
2-Nitrophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
3 & 4 Methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
3,3'-Dichlorobenzidine	<720		720		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
4,6-Dinitro-2-methylphenol	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
4-Chloroaniline	<720		720		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
4-Nitroaniline	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
4-Nitrophenol	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Acenaphthene	**500**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Acenaphthylene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Anthracene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Benzidine	<2900		2900		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Benzo[a]anthracene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Benzo[a]pyrene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Bis(2-ethylhexyl) phthalate	**540**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Chrysene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Dibenzofuran	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Diethyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Dimethyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Dinoseb	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Fluoranthene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Fluorene	**850**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Hexachlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Hexachloroethane	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Isophorone	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-9 0'-3'
Date Collected: 05/30/12 08:01
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-1
Matrix: Solid
Percent Solids: 92.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Naphthalene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Nitrobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Pentachlorophenol	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Phenanthrene	**2300**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Phenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Pyrene	**440**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
Carbazole	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 19:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*15*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 19:56*	*5*
2-Fluorobiphenyl	*63*		*31 - 130*	*05/31/12 12:00*	*05/31/12 19:56*	*5*
2-Fluorophenol (Surr)	*60*		*10 - 128*	*05/31/12 12:00*	*05/31/12 19:56*	*5*
Nitrobenzene-d5 (Surr)	*64*		*35 - 130*	*05/31/12 12:00*	*05/31/12 19:56*	*5*
Phenol-d5 (Surr)	*66*		*29 - 130*	*05/31/12 12:00*	*05/31/12 19:56*	*5*
Terphenyl-d14 (Surr)	*80*		*37 - 149*	*05/31/12 12:00*	*05/31/12 19:56*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 13:13	5
PCB-1221	<73		73		ug/Kg	☼	05/31/12 09:00	05/31/12 13:13	5
PCB-1232	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 13:13	5
PCB-1242	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 13:13	5
PCB-1248	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 13:13	5
PCB-1254	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 13:13	5
PCB-1260	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 13:13	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*61*		*30 - 150*	*05/31/12 09:00*	*05/31/12 13:13*	*5*
Tetrachloro-m-xylene	*44*		*30 - 150*	*05/31/12 09:00*	*05/31/12 13:13*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.99		0.99		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Arsenic	**9.9**		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Beryllium	<0.39		0.39		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Cadmium	<0.49		0.49		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Chromium	**11**		0.99		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Copper	**38**		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Lead	**57**		0.74		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Nickel	**4.9**		3.9		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Selenium	<1.5		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Antimony	**2.1**		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Thallium	<1.5		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1
Zinc	**70**		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 18:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.058**		0.013		mg/Kg	☼	05/31/12 10:25	06/01/12 12:34	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-9 3'-6'
Date Collected: 05/30/12 08:09
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-2
Matrix: Solid
Percent Solids: 79.6

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,1,1-Trichloroethane	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,1,2-Trichloroethane	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,1-Dichloroethane	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,1-Dichloroethene	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,2-Dichloroethane	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,2-Dichlorobenzene	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,3-Dichlorobenzene	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,4-Dichlorobenzene	<310		310		ug/Kg	☼		05/31/12 15:27	50
cis-1,2-Dichloroethene	<310		310		ug/Kg	☼		05/31/12 15:27	50
1,2-Dichloropropane	<310		310		ug/Kg	☼		05/31/12 15:27	50
Acetone	<3100		3100		ug/Kg	☼		05/31/12 15:27	50
Benzene	<310		310		ug/Kg	☼		05/31/12 15:27	50
Bromoform	<310		310		ug/Kg	☼		05/31/12 15:27	50
Bromomethane	<630		630		ug/Kg	☼		05/31/12 15:27	50
Carbon disulfide	<310		310		ug/Kg	☼		05/31/12 15:27	50
Carbon tetrachloride	<310		310		ug/Kg	☼		05/31/12 15:27	50
Chlorobenzene	<310		310		ug/Kg	☼		05/31/12 15:27	50
Chlorodibromomethane	<310		310		ug/Kg	☼		05/31/12 15:27	50
Chloroethane	<630		630		ug/Kg	☼		05/31/12 15:27	50
Chloromethane	<630		630		ug/Kg	☼		05/31/12 15:27	50
Chloroform	<310		310		ug/Kg	☼		05/31/12 15:27	50
Dichlorobromomethane	<310		310		ug/Kg	☼		05/31/12 15:27	50
Ethylbenzene	<310		310		ug/Kg	☼		05/31/12 15:27	50
2-Hexanone	<1600		1600		ug/Kg	☼		05/31/12 15:27	50
Methylene Chloride	<310		310		ug/Kg	☼		05/31/12 15:27	50
4-Methyl-2-pentanone (MIBK)	<1600		1600		ug/Kg	☼		05/31/12 15:27	50
2-Butanone (MEK)	<1600		1600		ug/Kg	☼		05/31/12 15:27	50
o-Xylene	<310		310		ug/Kg	☼		05/31/12 15:27	50
Xylenes, Total	<940		940		ug/Kg	☼		05/31/12 15:27	50
Styrene	<310		310		ug/Kg	☼		05/31/12 15:27	50
Trichloroethene	<310		310		ug/Kg	☼		05/31/12 15:27	50
Toluene	<310		310		ug/Kg	☼		05/31/12 15:27	50
Vinyl chloride	<630		630		ug/Kg	☼		05/31/12 15:27	50
trans-1,3-Dichloropropene	<310		310		ug/Kg	☼		05/31/12 15:27	50
trans-1,2-Dichloroethene	<310		310		ug/Kg	☼		05/31/12 15:27	50
cis-1,3-Dichloropropene	<310		310		ug/Kg	☼		05/31/12 15:27	50
m-Xylene & p-Xylene	<630		630		ug/Kg	☼		05/31/12 15:27	50
Tetrachloroethene	<310		310		ug/Kg	☼		05/31/12 15:27	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*119*		*30 - 140*		*05/31/12 15:27*	*50*
4-Bromofluorobenzene	*106*		*30 - 126*		*05/31/12 15:27*	*50*
Toluene-d8 (Surr)	*101*		*42 - 130*		*05/31/12 15:27*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
1,2-Dichlorobenzene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
1,3-Dichlorobenzene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
1,4-Dichlorobenzene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-9 3'-6'
Date Collected: 05/30/12 08:09
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-2
Matrix: Solid
Percent Solids: 79.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**2700**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2,4,5-Trichlorophenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2,4,6-Trichlorophenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2,4-Dichlorophenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2,4-Dimethylphenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2,4-Dinitrophenol	<2100		2100		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2,4-Dinitrotoluene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2,6-Dinitrotoluene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2-Chlorophenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2-Methylnaphthalene	**4400**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2-Methylphenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2-Nitroaniline	<2100		2100		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
2-Nitrophenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
3 & 4 Methylphenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
3,3'-Dichlorobenzidine	<830		830		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
4,6-Dinitro-2-methylphenol	<2100		2100		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
4-Bromophenyl phenyl ether	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
4-Chloro-3-methylphenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
4-Chloroaniline	<830		830		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
4-Chlorophenyl phenyl ether	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
4-Nitroaniline	<2100		2100		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
4-Nitrophenol	<2100		2100		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Acenaphthene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Acenaphthylene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Anthracene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Benzidine	<3400		3400		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Benzo[a]anthracene	**540**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Benzo[a]pyrene	**750**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Benzo[b]fluoranthene	**830**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Benzo[g,h,i]perylene	**610**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Benzo[k]fluoranthene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Bis(2-chloroethoxy)methane	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Bis(2-chloroethyl)ether	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Bis(2-ethylhexyl) phthalate	**1100**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Butyl benzyl phthalate	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Chrysene	**630**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Di-n-butyl phthalate	**510**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Di-n-octyl phthalate	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Dibenz(a,h)anthracene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Dibenzofuran	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Diethyl phthalate	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Dimethyl phthalate	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Dinoseb	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Fluoranthene	**870**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Fluorene	**750**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Hexachlorobenzene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Hexachlorobutadiene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Hexachlorocyclopentadiene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Hexachloroethane	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Indeno[1,2,3-cd]pyrene	**460**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Isophorone	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-9 3'-6'
Date Collected: 05/30/12 08:09
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-2
Matrix: Solid
Percent Solids: 79.6

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
N-Nitrosodiphenylamine	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Naphthalene	**840**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Nitrobenzene	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Pentachlorophenol	<2100		2100		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Phenanthrene	**2000**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Phenol	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Pyrene	**1100**		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
Carbazole	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5
N-Nitrosodimethylamine	<410		410		ug/Kg	☼	05/31/12 12:00	05/31/12 20:24	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 20:24*	*5*
2-Fluorobiphenyl	*69*		*31 - 130*	*05/31/12 12:00*	*05/31/12 20:24*	*5*
2-Fluorophenol (Surr)	*66*		*10 - 128*	*05/31/12 12:00*	*05/31/12 20:24*	*5*
Nitrobenzene-d5 (Surr)	*63*		*35 - 130*	*05/31/12 12:00*	*05/31/12 20:24*	*5*
Phenol-d5 (Surr)	*71*		*29 - 130*	*05/31/12 12:00*	*05/31/12 20:24*	*5*
Terphenyl-d14 (Surr)	*84*		*37 - 149*	*05/31/12 12:00*	*05/31/12 20:24*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<41		41		ug/Kg	☼	05/31/12 09:00	05/31/12 13:44	5
PCB-1221	<84		84		ug/Kg	☼	05/31/12 09:00	05/31/12 13:44	5
PCB-1232	<41		41		ug/Kg	☼	05/31/12 09:00	05/31/12 13:44	5
PCB-1242	<41		41		ug/Kg	☼	05/31/12 09:00	05/31/12 13:44	5
PCB-1248	<41		41		ug/Kg	☼	05/31/12 09:00	05/31/12 13:44	5
PCB-1254	<41		41		ug/Kg	☼	05/31/12 09:00	05/31/12 13:44	5
PCB-1260	<41		41		ug/Kg	☼	05/31/12 09:00	05/31/12 13:44	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*54*		*30 - 150*	*05/31/12 09:00*	*05/31/12 13:44*	*5*
Tetrachloro-m-xylene	*36*		*30 - 150*	*05/31/12 09:00*	*05/31/12 13:44*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.2		1.2		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Arsenic	**20**		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Beryllium	**0.57**		0.47		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Cadmium	**0.90**		0.58		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Chromium	**9.2**		1.2		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Copper	**110**		2.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Nickel	**8.5**		4.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Selenium	<1.7		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Thallium	<1.7		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1
Zinc	**190**		2.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:05	1

Method: 6010C - Metals (ICP) - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**220**		4.4		mg/Kg	☼	05/31/12 09:00	06/01/12 10:56	5
Antimony	<12		12		mg/Kg	☼	05/31/12 09:00	06/01/12 10:56	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-9 3'-6'
Date Collected: 05/30/12 08:09
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-2
Matrix: Solid
Percent Solids: 79.6

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.29		0.018		mg/Kg	☼	05/31/12 10:25	06/01/12 12:36	1

Client Sample ID: B-10 0'-3'
Date Collected: 05/30/12 08:21
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-3
Matrix: Solid
Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,1,1-Trichloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,1,2-Trichloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,1-Dichloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,1-Dichloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,2-Dichloroethane	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,2-Dichlorobenzene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,3-Dichlorobenzene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,4-Dichlorobenzene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
cis-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
1,2-Dichloropropane	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Acetone	<55		55		ug/Kg	☼		05/31/12 01:03	1
Benzene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Bromoform	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Bromomethane	<11		11		ug/Kg	☼		05/31/12 01:03	1
Carbon disulfide	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Carbon tetrachloride	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Chlorobenzene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Chlorodibromomethane	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Chloroethane	<11		11		ug/Kg	☼		05/31/12 01:03	1
Chloromethane	<11		11		ug/Kg	☼		05/31/12 01:03	1
Chloroform	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Dichlorobromomethane	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Ethylbenzene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
2-Hexanone	<28		28		ug/Kg	☼		05/31/12 01:03	1
Methylene Chloride	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼		05/31/12 01:03	1
2-Butanone (MEK)	<28		28		ug/Kg	☼		05/31/12 01:03	1
o-Xylene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Xylenes, Total	<17		17		ug/Kg	☼		05/31/12 01:03	1
Styrene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Trichloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Toluene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
Vinyl chloride	<11		11		ug/Kg	☼		05/31/12 01:03	1
trans-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
trans-1,2-Dichloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
cis-1,3-Dichloropropene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1
m-Xylene & p-Xylene	<11		11		ug/Kg	☼		05/31/12 01:03	1
Tetrachloroethene	<5.5		5.5		ug/Kg	☼		05/31/12 01:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*53*		*30 - 140*		*05/31/12 01:03*	*1*
4-Bromofluorobenzene	*98*		*30 - 126*		*05/31/12 01:03*	*1*

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-10 0'-3'
Date Collected: 05/30/12 08:21
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-3
Matrix: Solid
Percent Solids: 90.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*115*		*42 - 130*		*05/31/12 01:03*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
1-Methylnaphthalene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2,4-Dinitrophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2-Chlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2-Methylnaphthalene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2-Methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2-Nitroaniline	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
2-Nitrophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
3 & 4 Methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
3,3'-Dichlorobenzidine	<730		730		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
4,6-Dinitro-2-methylphenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
4-Chloroaniline	<730		730		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
4-Nitroaniline	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
4-Nitrophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Acenaphthene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Acenaphthylene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Anthracene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Benzidine	<3000		3000		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Benzo[a]anthracene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Benzo[a]pyrene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Benzo[b]fluoranthene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Benzo[g,h,i]perylene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Benzo[k]fluoranthene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Chrysene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Dibenzofuran	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Diethyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Dimethyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Dinoseb	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-10 0'-3'
Date Collected: 05/30/12 08:21
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-3
Matrix: Solid
Percent Solids: 90.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoranthene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Fluorene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Hexachlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Hexachloroethane	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Indeno[1,2,3-cd]pyrene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Isophorone	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Naphthalene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Nitrobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Pentachlorophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Phenanthrene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Phenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Pyrene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
Carbazole	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 20:53	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*9*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 20:53*	*5*
2-Fluorobiphenyl	*61*		*31 - 130*	*05/31/12 12:00*	*05/31/12 20:53*	*5*
2-Fluorophenol (Surr)	*49*		*10 - 128*	*05/31/12 12:00*	*05/31/12 20:53*	*5*
Nitrobenzene-d5 (Surr)	*51*		*35 - 130*	*05/31/12 12:00*	*05/31/12 20:53*	*5*
Phenol-d5 (Surr)	*59*		*29 - 130*	*05/31/12 12:00*	*05/31/12 20:53*	*5*
Terphenyl-d14 (Surr)	*75*		*37 - 149*	*05/31/12 12:00*	*05/31/12 20:53*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 14:15	5
PCB-1221	<74		74		ug/Kg	☼	05/31/12 09:00	05/31/12 14:15	5
PCB-1232	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 14:15	5
PCB-1242	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 14:15	5
PCB-1248	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 14:15	5
PCB-1254	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 14:15	5
PCB-1260	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 14:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*47*		*30 - 150*	*05/31/12 09:00*	*05/31/12 14:15*	*5*
Tetrachloro-m-xylene	*67*		*30 - 150*	*05/31/12 09:00*	*05/31/12 14:15*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.1		1.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Arsenic	**5.6**		1.6		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Beryllium	<0.43		0.43		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Cadmium	**0.63**		0.54		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Chromium	**32**		1.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Copper	**41**		2.2		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Lead	**79**		0.81		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Nickel	**5.8**		4.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Selenium	<1.6		1.6		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1

Client Sample ID: B-10 0'-3'
Lab Sample ID: 700-68015-3
Date Collected: 05/30/12 08:21
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 90.5

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	<2.2		2.2		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Thallium	<1.6		1.6		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1
Zinc	160		2.2		mg/Kg	☼	05/31/12 09:00	05/31/12 19:08	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.13		0.013		mg/Kg	☼	05/31/12 10:25	06/01/12 12:38	1

Client Sample ID: B-10 3'-6'
Lab Sample ID: 700-68015-4
Date Collected: 05/30/12 08:26
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 70.0

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,1,1-Trichloroethane	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,1,2-Trichloroethane	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,1-Dichloroethane	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,1-Dichloroethene	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,2-Dichloroethane	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,2-Dichlorobenzene	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,3-Dichlorobenzene	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,4-Dichlorobenzene	<360		360		ug/Kg	☼		05/31/12 13:51	50
cis-1,2-Dichloroethene	<360		360		ug/Kg	☼		05/31/12 13:51	50
1,2-Dichloropropane	<360		360		ug/Kg	☼		05/31/12 13:51	50
Acetone	<3600		3600		ug/Kg	☼		05/31/12 13:51	50
Benzene	<360		360		ug/Kg	☼		05/31/12 13:51	50
Bromoform	<360		360		ug/Kg	☼		05/31/12 13:51	50
Bromomethane	<710		710		ug/Kg	☼		05/31/12 13:51	50
Carbon disulfide	<360		360		ug/Kg	☼		05/31/12 13:51	50
Carbon tetrachloride	<360		360		ug/Kg	☼		05/31/12 13:51	50
Chlorobenzene	<360		360		ug/Kg	☼		05/31/12 13:51	50
Chlorodibromomethane	<360		360		ug/Kg	☼		05/31/12 13:51	50
Chloroethane	<710		710		ug/Kg	☼		05/31/12 13:51	50
Chloromethane	<710		710		ug/Kg	☼		05/31/12 13:51	50
Chloroform	<360		360		ug/Kg	☼		05/31/12 13:51	50
Dichlorobromomethane	<360		360		ug/Kg	☼		05/31/12 13:51	50
Ethylbenzene	<360		360		ug/Kg	☼		05/31/12 13:51	50
2-Hexanone	<1800		1800		ug/Kg	☼		05/31/12 13:51	50
Methylene Chloride	<360		360		ug/Kg	☼		05/31/12 13:51	50
4-Methyl-2-pentanone (MIBK)	<1800		1800		ug/Kg	☼		05/31/12 13:51	50
2-Butanone (MEK)	<1800		1800		ug/Kg	☼		05/31/12 13:51	50
o-Xylene	<360		360		ug/Kg	☼		05/31/12 13:51	50
Xylenes, Total	<1100		1100		ug/Kg	☼		05/31/12 13:51	50
Styrene	<360		360		ug/Kg	☼		05/31/12 13:51	50
Trichloroethene	<360		360		ug/Kg	☼		05/31/12 13:51	50
Toluene	<360		360		ug/Kg	☼		05/31/12 13:51	50
Vinyl chloride	<710		710		ug/Kg	☼		05/31/12 13:51	50
trans-1,3-Dichloropropene	<360		360		ug/Kg	☼		05/31/12 13:51	50
trans-1,2-Dichloroethene	<360		360		ug/Kg	☼		05/31/12 13:51	50
cis-1,3-Dichloropropene	<360		360		ug/Kg	☼		05/31/12 13:51	50

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-10 3'-6'
Date Collected: 05/30/12 08:26
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-4
Matrix: Solid
Percent Solids: 70.0

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
m-Xylene & p-Xylene	<710		710		ug/Kg	☼		05/31/12 13:51	50
Tetrachloroethene	<360		360		ug/Kg	☼		05/31/12 13:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*106*		*30 - 140*		*05/31/12 13:51*	*50*
4-Bromofluorobenzene	*97*		*30 - 126*		*05/31/12 13:51*	*50*
Toluene-d8 (Surr)	*97*		*42 - 130*		*05/31/12 13:51*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
1,2-Dichlorobenzene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
1,3-Dichlorobenzene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
1,4-Dichlorobenzene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
1-Methylnaphthalene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2,4,5-Trichlorophenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2,4,6-Trichlorophenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2,4-Dichlorophenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2,4-Dimethylphenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2,4-Dinitrophenol	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2,4-Dinitrotoluene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2,6-Dinitrotoluene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2-Chlorophenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2-Methylnaphthalene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2-Methylphenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2-Nitroaniline	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
2-Nitrophenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
3 & 4 Methylphenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
3,3'-Dichlorobenzidine	<940		940		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
4,6-Dinitro-2-methylphenol	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
4-Bromophenyl phenyl ether	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
4-Chloro-3-methylphenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
4-Chloroaniline	<940		940		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
4-Chlorophenyl phenyl ether	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
4-Nitroaniline	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
4-Nitrophenol	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Acenaphthene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Acenaphthylene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Anthracene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Benzidine	<3900		3900		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Benzo[a]anthracene	**1700**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Benzo[a]pyrene	**2200**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Benzo[b]fluoranthene	**2500**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Benzo[g,h,i]perylene	**1700**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Benzo[k]fluoranthene	**1000**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Bis(2-chloroethoxy)methane	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Bis(2-chloroethyl)ether	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Bis(2-ethylhexyl) phthalate	**480**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Butyl benzyl phthalate	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Chrysene	**1800**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Di-n-butyl phthalate	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5

Client Sample ID: B-10 3'-6'
Date Collected: 05/30/12 08:26
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-4
Matrix: Solid
Percent Solids: 70.0

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Dibenz(a,h)anthracene	**510**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Dibenzofuran	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Diethyl phthalate	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Dimethyl phthalate	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Dinoseb	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Fluoranthene	**2700**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Fluorene	**730**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Hexachlorobenzene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Hexachlorobutadiene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Hexachlorocyclopentadiene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Hexachloroethane	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Indeno[1,2,3-cd]pyrene	**1600**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Isophorone	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
N-Nitrosodi-n-propylamine	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
N-Nitrosodiphenylamine	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Naphthalene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Nitrobenzene	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Pentachlorophenol	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Phenanthrene	**2900**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Phenol	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Pyrene	**3000**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
Carbazole	**490**		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5
N-Nitrosodimethylamine	<470		470		ug/Kg	☼	05/31/12 12:00	05/31/12 21:21	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 21:21*	*5*
2-Fluorobiphenyl	*66*		*31 - 130*	*05/31/12 12:00*	*05/31/12 21:21*	*5*
2-Fluorophenol (Surr)	*66*		*10 - 128*	*05/31/12 12:00*	*05/31/12 21:21*	*5*
Nitrobenzene-d5 (Surr)	*54*		*35 - 130*	*05/31/12 12:00*	*05/31/12 21:21*	*5*
Phenol-d5 (Surr)	*69*		*29 - 130*	*05/31/12 12:00*	*05/31/12 21:21*	*5*
Terphenyl-d14 (Surr)	*85*		*37 - 149*	*05/31/12 12:00*	*05/31/12 21:21*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<47		47		ug/Kg	☼	05/31/12 09:00	05/31/12 14:46	5
PCB-1221	<96		96		ug/Kg	☼	05/31/12 09:00	05/31/12 14:46	5
PCB-1232	<47		47		ug/Kg	☼	05/31/12 09:00	05/31/12 14:46	5
PCB-1242	<47		47		ug/Kg	☼	05/31/12 09:00	05/31/12 14:46	5
PCB-1248	<47		47		ug/Kg	☼	05/31/12 09:00	05/31/12 14:46	5
PCB-1254	<47		47		ug/Kg	☼	05/31/12 09:00	05/31/12 14:46	5
PCB-1260	<47		47		ug/Kg	☼	05/31/12 09:00	05/31/12 14:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*70*		*30 - 150*	*05/31/12 09:00*	*05/31/12 14:46*	*5*
Tetrachloro-m-xylene	*70*		*30 - 150*	*05/31/12 09:00*	*05/31/12 14:46*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.4		1.4		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Arsenic	**24**		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Beryllium	<0.55		0.55		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-10 3'-6'

Lab Sample ID: 700-68015-4
Date Collected: 05/30/12 08:26
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 70.0

Method: 6010C - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	1.4		0.69		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Chromium	19		1.4		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Copper	240		2.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Lead	260		1.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Nickel	15		5.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Selenium	<2.1		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Antimony	6.6		2.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Thallium	<2.1		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1
Zinc	620		2.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:21	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.27		0.018		mg/Kg	☼	05/31/12 10:25	06/01/12 12:40	1

Client Sample ID: B-11 0'-3'

Lab Sample ID: 700-68015-5
Date Collected: 05/30/12 08:43
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 92.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,1,1-Trichloroethane	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,1,2-Trichloroethane	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,1-Dichloroethane	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,1-Dichloroethene	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,2-Dichloroethane	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,2-Dichlorobenzene	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,3-Dichlorobenzene	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,4-Dichlorobenzene	<270		270		ug/Kg	☼		05/31/12 14:23	50
cis-1,2-Dichloroethene	<270		270		ug/Kg	☼		05/31/12 14:23	50
1,2-Dichloropropane	<270		270		ug/Kg	☼		05/31/12 14:23	50
Acetone	<2700		2700		ug/Kg	☼		05/31/12 14:23	50
Benzene	<270		270		ug/Kg	☼		05/31/12 14:23	50
Bromoform	<270		270		ug/Kg	☼		05/31/12 14:23	50
Bromomethane	<540		540		ug/Kg	☼		05/31/12 14:23	50
Carbon disulfide	<270		270		ug/Kg	☼		05/31/12 14:23	50
Carbon tetrachloride	<270		270		ug/Kg	☼		05/31/12 14:23	50
Chlorobenzene	<270		270		ug/Kg	☼		05/31/12 14:23	50
Chlorodibromomethane	<270		270		ug/Kg	☼		05/31/12 14:23	50
Chloroethane	<540		540		ug/Kg	☼		05/31/12 14:23	50
Chloromethane	<540		540		ug/Kg	☼		05/31/12 14:23	50
Chloroform	<270		270		ug/Kg	☼		05/31/12 14:23	50
Dichlorobromomethane	<270		270		ug/Kg	☼		05/31/12 14:23	50
Ethylbenzene	<270		270		ug/Kg	☼		05/31/12 14:23	50
2-Hexanone	<1300		1300		ug/Kg	☼		05/31/12 14:23	50
Methylene Chloride	<270		270		ug/Kg	☼		05/31/12 14:23	50
4-Methyl-2-pentanone (MIBK)	<1300		1300		ug/Kg	☼		05/31/12 14:23	50
2-Butanone (MEK)	<1300		1300		ug/Kg	☼		05/31/12 14:23	50
o-Xylene	<270		270		ug/Kg	☼		05/31/12 14:23	50
Xylenes, Total	<800		800		ug/Kg	☼		05/31/12 14:23	50
Styrene	<270		270		ug/Kg	☼		05/31/12 14:23	50

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-11 0'-3'
Date Collected: 05/30/12 08:43
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-5
Matrix: Solid
Percent Solids: 92.3

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<270		270		ug/Kg	☼		05/31/12 14:23	50
Toluene	<270		270		ug/Kg	☼		05/31/12 14:23	50
Vinyl chloride	<540		540		ug/Kg	☼		05/31/12 14:23	50
trans-1,3-Dichloropropene	<270		270		ug/Kg	☼		05/31/12 14:23	50
trans-1,2-Dichloroethene	<270		270		ug/Kg	☼		05/31/12 14:23	50
cis-1,3-Dichloropropene	<270		270		ug/Kg	☼		05/31/12 14:23	50
m-Xylene & p-Xylene	<540		540		ug/Kg	☼		05/31/12 14:23	50
Tetrachloroethene	<270		270		ug/Kg	☼		05/31/12 14:23	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*111*		*30 - 140*		*05/31/12 14:23*	*50*
4-Bromofluorobenzene	*107*		*30 - 126*		*05/31/12 14:23*	*50*
Toluene-d8 (Surr)	*101*		*42 - 130*		*05/31/12 14:23*	*50*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
1,2-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
1,3-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
1,4-Dichlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
1-Methylnaphthalene	**1100**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2,4,5-Trichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2,4,6-Trichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2,4-Dichlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2,4-Dimethylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2,4-Dinitrophenol	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2,4-Dinitrotoluene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2,6-Dinitrotoluene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2-Chlorophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2-Methylnaphthalene	**1300**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2-Methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2-Nitroaniline	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
2-Nitrophenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
3 & 4 Methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
3,3'-Dichlorobenzidine	<720		720		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
4,6-Dinitro-2-methylphenol	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
4-Bromophenyl phenyl ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
4-Chloro-3-methylphenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
4-Chloroaniline	<720		720		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
4-Chlorophenyl phenyl ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
4-Nitroaniline	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
4-Nitrophenol	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Acenaphthene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Acenaphthylene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Anthracene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Benzidine	<2900		2900		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Benzo[a]anthracene	**600**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Benzo[a]pyrene	**600**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Benzo[b]fluoranthene	**830**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Benzo[g,h,i]perylene	**420**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Benzo[k]fluoranthene	**370**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-11 0'-3'
Date Collected: 05/30/12 08:43
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-5
Matrix: Solid
Percent Solids: 92.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bis(2-chloroethoxy)methane	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Bis(2-chloroethyl)ether	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Bis(2-ethylhexyl) phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Butyl benzyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Chrysene	**830**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Di-n-butyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Di-n-octyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Dibenz(a,h)anthracene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Dibenzofuran	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Diethyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Dimethyl phthalate	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Dinoseb	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Fluoranthene	**1200**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Fluorene	**470**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Hexachlorobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Hexachlorobutadiene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Hexachlorocyclopentadiene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Hexachloroethane	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Indeno[1,2,3-cd]pyrene	**400**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Isophorone	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
N-Nitrosodi-n-propylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
N-Nitrosodiphenylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Naphthalene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Nitrobenzene	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Pentachlorophenol	<1800		1800		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Phenanthrene	**1800**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Phenol	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Pyrene	**1600**		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
Carbazole	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5
N-Nitrosodimethylamine	<360		360		ug/Kg	☼	05/31/12 12:00	05/31/12 21:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 21:50*	*5*
2-Fluorobiphenyl	*60*		*31 - 130*	*05/31/12 12:00*	*05/31/12 21:50*	*5*
2-Fluorophenol (Surr)	*68*		*10 - 128*	*05/31/12 12:00*	*05/31/12 21:50*	*5*
Nitrobenzene-d5 (Surr)	*52*		*35 - 130*	*05/31/12 12:00*	*05/31/12 21:50*	*5*
Phenol-d5 (Surr)	*70*		*29 - 130*	*05/31/12 12:00*	*05/31/12 21:50*	*5*
Terphenyl-d14 (Surr)	*79*		*37 - 149*	*05/31/12 12:00*	*05/31/12 21:50*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 15:18	5
PCB-1221	<73		73		ug/Kg	☼	05/31/12 09:00	05/31/12 15:18	5
PCB-1232	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 15:18	5
PCB-1242	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 15:18	5
PCB-1248	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 15:18	5
PCB-1254	<36		36		ug/Kg	☼	05/31/12 09:00	05/31/12 15:18	5
PCB-1260	**660**		36		ug/Kg	☼	05/31/12 09:00	05/31/12 15:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*30 - 150*	*05/31/12 09:00*	*05/31/12 15:18*	*5*
Tetrachloro-m-xylene	*50*		*30 - 150*	*05/31/12 09:00*	*05/31/12 15:18*	*5*

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-11 0'-3'

Lab Sample ID: 700-68015-5

Date Collected: 05/30/12 08:43
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 92.3

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Arsenic	**9.2**		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Beryllium	**0.62**		0.41		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Cadmium	**2.1**		0.51		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Chromium	**63**		1.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Copper	**1100**		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Nickel	**21**		4.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Selenium	<1.5		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Thallium	<1.5		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1
Zinc	**840**		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:24	1

Method: 6010C - Metals (ICP) - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**700**		3.8		mg/Kg	☼	05/31/12 09:00	06/01/12 10:59	5
Antimony	<10		10		mg/Kg	☼	05/31/12 09:00	06/01/12 10:59	5

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.7**		0.070		mg/Kg	☼	05/31/12 10:25	06/01/12 13:11	5

Client Sample ID: B-11 3'-6'

Lab Sample ID: 700-68015-6

Date Collected: 05/30/12 08:50
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 71.1

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,1,1-Trichloroethane	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,1,2-Trichloroethane	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,1-Dichloroethane	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,1-Dichloroethene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,2-Dichloroethane	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,2-Dichlorobenzene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,3-Dichlorobenzene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,4-Dichlorobenzene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
cis-1,2-Dichloroethene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
1,2-Dichloropropane	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Acetone	**86**		69		ug/Kg	☼		05/31/12 02:37	1
Benzene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Bromoform	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Bromomethane	<14		14		ug/Kg	☼		05/31/12 02:37	1
Carbon disulfide	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Carbon tetrachloride	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Chlorobenzene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Chlorodibromomethane	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Chloroethane	<14		14		ug/Kg	☼		05/31/12 02:37	1
Chloromethane	<14		14		ug/Kg	☼		05/31/12 02:37	1
Chloroform	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Dichlorobromomethane	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Ethylbenzene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
2-Hexanone	<35		35		ug/Kg	☼		05/31/12 02:37	1
Methylene Chloride	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-11 3'-6'
Date Collected: 05/30/12 08:50
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-6
Matrix: Solid
Percent Solids: 71.1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<35		35		ug/Kg	☼		05/31/12 02:37	1
2-Butanone (MEK)	<35		35		ug/Kg	☼		05/31/12 02:37	1
o-Xylene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Xylenes, Total	<21		21		ug/Kg	☼		05/31/12 02:37	1
Styrene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Trichloroethene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Toluene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
Vinyl chloride	<14		14		ug/Kg	☼		05/31/12 02:37	1
trans-1,3-Dichloropropene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
trans-1,2-Dichloroethene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
cis-1,3-Dichloropropene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1
m-Xylene & p-Xylene	<14		14		ug/Kg	☼		05/31/12 02:37	1
Tetrachloroethene	<6.9		6.9		ug/Kg	☼		05/31/12 02:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*30 - 140*		*05/31/12 02:37*	*1*
4-Bromofluorobenzene	*82*		*30 - 126*		*05/31/12 02:37*	*1*
Toluene-d8 (Surr)	*112*		*42 - 130*		*05/31/12 02:37*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
1,2-Dichlorobenzene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
1,3-Dichlorobenzene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
1,4-Dichlorobenzene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
1-Methylnaphthalene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2,4,5-Trichlorophenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2,4,6-Trichlorophenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2,4-Dichlorophenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2,4-Dimethylphenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2,4-Dinitrophenol	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2,4-Dinitrotoluene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2,6-Dinitrotoluene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2-Chlorophenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2-Methylnaphthalene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2-Methylphenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2-Nitroaniline	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
2-Nitrophenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
3 & 4 Methylphenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
3,3'-Dichlorobenzidine	<930		930		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
4,6-Dinitro-2-methylphenol	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
4-Bromophenyl phenyl ether	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
4-Chloro-3-methylphenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
4-Chloroaniline	<930		930		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
4-Chlorophenyl phenyl ether	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
4-Nitroaniline	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
4-Nitrophenol	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Acenaphthene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Acenaphthylene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Anthracene	**500**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Benzidine	<3800		3800		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-11 3'-6'
Date Collected: 05/30/12 08:50
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-6
Matrix: Solid
Percent Solids: 71.1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	**2000**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Benzo[a]pyrene	**1700**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Benzo[b]fluoranthene	**1900**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Benzo[g,h,i]perylene	**930**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Benzo[k]fluoranthene	**930**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Bis(2-chloroethoxy)methane	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Bis(2-chloroethyl)ether	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Bis(2-ethylhexyl) phthalate	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Butyl benzyl phthalate	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Chrysene	**2300**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Di-n-butyl phthalate	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Di-n-octyl phthalate	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Dibenz(a,h)anthracene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Dibenzofuran	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Diethyl phthalate	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Dimethyl phthalate	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Dinoseb	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Fluoranthene	**5300**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Fluorene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Hexachlorobenzene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Hexachlorobutadiene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Hexachlorocyclopentadiene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Hexachloroethane	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Indeno[1,2,3-cd]pyrene	**910**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Isophorone	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
N-Nitrosodi-n-propylamine	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
N-Nitrosodiphenylamine	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Naphthalene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Nitrobenzene	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Pentachlorophenol	<2400		2400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Phenanthrene	**4400**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Phenol	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Pyrene	**6200**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
Carbazole	**550**		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5
N-Nitrosodimethylamine	<460		460		ug/Kg	☼	05/31/12 12:00	05/31/12 22:18	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*76*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 22:18*	*5*
2-Fluorobiphenyl	*62*		*31 - 130*	*05/31/12 12:00*	*05/31/12 22:18*	*5*
2-Fluorophenol (Surr)	*67*		*10 - 128*	*05/31/12 12:00*	*05/31/12 22:18*	*5*
Nitrobenzene-d5 (Surr)	*53*		*35 - 130*	*05/31/12 12:00*	*05/31/12 22:18*	*5*
Phenol-d5 (Surr)	*64*		*29 - 130*	*05/31/12 12:00*	*05/31/12 22:18*	*5*
Terphenyl-d14 (Surr)	*97*		*37 - 149*	*05/31/12 12:00*	*05/31/12 22:18*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<46		46		ug/Kg	☼	05/31/12 09:00	05/31/12 15:49	5
PCB-1221	<94		94		ug/Kg	☼	05/31/12 09:00	05/31/12 15:49	5
PCB-1232	<46		46		ug/Kg	☼	05/31/12 09:00	05/31/12 15:49	5
PCB-1242	<46		46		ug/Kg	☼	05/31/12 09:00	05/31/12 15:49	5
PCB-1248	<46		46		ug/Kg	☼	05/31/12 09:00	05/31/12 15:49	5

Client Sample ID: B-11 3'-6'

Lab Sample ID: 700-68015-6
Date Collected: 05/30/12 08:50
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 71.1

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1254	<46		46		ug/Kg	☼	05/31/12 09:00	05/31/12 15:49	5
PCB-1260	<46		46		ug/Kg	☼	05/31/12 09:00	05/31/12 15:49	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*56*		*30 - 150*	*05/31/12 09:00*	*05/31/12 15:49*	*5*
Tetrachloro-m-xylene	*54*		*30 - 150*	*05/31/12 09:00*	*05/31/12 15:49*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.3		1.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Arsenic	**6.1**		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Beryllium	<0.53		0.53		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Cadmium	<0.66		0.66		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Chromium	**13**		1.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Copper	**62**		2.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Lead	**470**		0.99		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Nickel	<5.3		5.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Selenium	<2.0		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Antimony	<2.7		2.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Thallium	<2.0		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1
Zinc	**230**		2.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:28	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.94**		0.039		mg/Kg	☼	05/31/12 10:25	06/01/12 13:12	2

Client Sample ID: B-12 0'-3'

Lab Sample ID: 700-68015-7
Date Collected: 05/30/12 09:04
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 88.7

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,1,1-Trichloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,1,2-Trichloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,1-Dichloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,1-Dichloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,2-Dichloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,2-Dichlorobenzene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,3-Dichlorobenzene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,4-Dichlorobenzene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
cis-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
1,2-Dichloropropane	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Acetone	<56		56		ug/Kg	☼		06/01/12 01:59	1
Benzene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Bromoform	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Bromomethane	<11		11		ug/Kg	☼		06/01/12 01:59	1
Carbon disulfide	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Carbon tetrachloride	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Chlorobenzene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Chlorodibromomethane	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Chloroethane	<11		11		ug/Kg	☼		06/01/12 01:59	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-12 0'-3'
Date Collected: 05/30/12 09:04
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-7
Matrix: Solid
Percent Solids: 88.7

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<11		11		ug/Kg	☼		06/01/12 01:59	1
Chloroform	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Dichlorobromomethane	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Ethylbenzene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
2-Hexanone	<28		28		ug/Kg	☼		06/01/12 01:59	1
Methylene Chloride	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼		06/01/12 01:59	1
2-Butanone (MEK)	<28		28		ug/Kg	☼		06/01/12 01:59	1
o-Xylene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Xylenes, Total	<17		17		ug/Kg	☼		06/01/12 01:59	1
Styrene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Trichloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Toluene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
Vinyl chloride	<11		11		ug/Kg	☼		06/01/12 01:59	1
trans-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
trans-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
cis-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼		06/01/12 01:59	1
m-Xylene & p-Xylene	<11		11		ug/Kg	☼		06/01/12 01:59	1
Tetrachloroethene	**9.8**		5.6		ug/Kg	☼		06/01/12 01:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*103*		*30 - 140*		*06/01/12 01:59*	*1*
4-Bromofluorobenzene	*55*		*30 - 126*		*06/01/12 01:59*	*1*
Toluene-d8 (Surr)	*87*		*42 - 130*		*06/01/12 01:59*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
1,2-Dichlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
1,3-Dichlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
1,4-Dichlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2,4-Dinitrophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2-Chlorophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2-Methylphenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2-Nitroaniline	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
2-Nitrophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
3 & 4 Methylphenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
3,3'-Dichlorobenzidine	<740		740		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
4,6-Dinitro-2-methylphenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
4-Chloroaniline	<740		740		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-12 0'-3'
Date Collected: 05/30/12 09:04
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-7
Matrix: Solid
Percent Solids: 88.7

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitroaniline	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
4-Nitrophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Acenaphthene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Acenaphthylene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Anthracene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Benzidine	<3000		3000		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Benzo[a]anthracene	**840**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Benzo[a]pyrene	**800**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Benzo[b]fluoranthene	**1100**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Benzo[g,h,i]perylene	**600**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Benzo[k]fluoranthene	**420**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Chrysene	**1000**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Dibenzofuran	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Diethyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Dimethyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Dinoseb	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Fluoranthene	**1500**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Fluorene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Hexachlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Hexachloroethane	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Indeno[1,2,3-cd]pyrene	**540**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Isophorone	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Naphthalene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Nitrobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Pentachlorophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Phenanthrene	**880**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Phenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Pyrene	**1800**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
Carbazole	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 22:47	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*70*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 22:47*	*5*
2-Fluorobiphenyl	*55*		*31 - 130*	*05/31/12 12:00*	*05/31/12 22:47*	*5*
2-Fluorophenol (Surr)	*50*		*10 - 128*	*05/31/12 12:00*	*05/31/12 22:47*	*5*
Nitrobenzene-d5 (Surr)	*48*		*35 - 130*	*05/31/12 12:00*	*05/31/12 22:47*	*5*
Phenol-d5 (Surr)	*59*		*29 - 130*	*05/31/12 12:00*	*05/31/12 22:47*	*5*
Terphenyl-d14 (Surr)	*90*		*37 - 149*	*05/31/12 12:00*	*05/31/12 22:47*	*5*

Client Sample ID: B-12 0'-3'

Lab Sample ID: 700-68015-7

Date Collected: 05/30/12 09:04
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 88.7

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 16:20	5
PCB-1221	<76		76		ug/Kg	☼	05/31/12 09:00	05/31/12 16:20	5
PCB-1232	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 16:20	5
PCB-1242	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 16:20	5
PCB-1248	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 16:20	5
PCB-1254	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 16:20	5
PCB-1260	**75**		37		ug/Kg	☼	05/31/12 09:00	05/31/12 16:20	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*64*		*30 - 150*	*05/31/12 09:00*	*05/31/12 16:20*	*5*
Tetrachloro-m-xylene	*69*		*30 - 150*	*05/31/12 09:00*	*05/31/12 16:20*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.97		0.97		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Arsenic	**9.6**		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Beryllium	<0.39		0.39		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Cadmium	**6.8**		0.49		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Chromium	**13**		0.97		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Copper	**110**		1.9		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Lead	**530**		0.73		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Nickel	**9.5**		3.9		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Selenium	<1.5		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Antimony	**4.2**		1.9		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Thallium	**1.5**		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1
Zinc	**2700**		1.9		mg/Kg	☼	05/31/12 09:00	05/31/12 19:31	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.62**		0.016		mg/Kg	☼	05/31/12 10:25	06/01/12 12:50	1

Client Sample ID: B-12 3'-6'

Lab Sample ID: 700-68015-8

Date Collected: 05/30/12 09:11
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 77.4

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,1,1-Trichloroethane	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,1,2-Trichloroethane	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,1-Dichloroethane	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,1-Dichloroethene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,2-Dichloroethane	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,2-Dichlorobenzene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,3-Dichlorobenzene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,4-Dichlorobenzene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
cis-1,2-Dichloroethene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
1,2-Dichloropropane	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Acetone	<64		64		ug/Kg	☼		05/31/12 03:09	1
Benzene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Bromoform	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Bromomethane	<13		13		ug/Kg	☼		05/31/12 03:09	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-12 3'-6'
Date Collected: 05/30/12 09:11
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-8
Matrix: Solid
Percent Solids: 77.4

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Carbon tetrachloride	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Chlorobenzene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Chlorodibromomethane	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Chloroethane	<13		13		ug/Kg	☼		05/31/12 03:09	1
Chloromethane	<13		13		ug/Kg	☼		05/31/12 03:09	1
Chloroform	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Dichlorobromomethane	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Ethylbenzene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
2-Hexanone	<32		32		ug/Kg	☼		05/31/12 03:09	1
Methylene Chloride	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
4-Methyl-2-pentanone (MIBK)	<32		32		ug/Kg	☼		05/31/12 03:09	1
2-Butanone (MEK)	<32		32		ug/Kg	☼		05/31/12 03:09	1
o-Xylene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Xylenes, Total	<19		19		ug/Kg	☼		05/31/12 03:09	1
Styrene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Trichloroethene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Toluene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
Vinyl chloride	<13		13		ug/Kg	☼		05/31/12 03:09	1
trans-1,3-Dichloropropene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
trans-1,2-Dichloroethene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
cis-1,3-Dichloropropene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1
m-Xylene & p-Xylene	<13		13		ug/Kg	☼		05/31/12 03:09	1
Tetrachloroethene	<6.4		6.4		ug/Kg	☼		05/31/12 03:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*30 - 140*		*05/31/12 03:09*	*1*
4-Bromofluorobenzene	*100*		*30 - 126*		*05/31/12 03:09*	*1*
Toluene-d8 (Surr)	*100*		*42 - 130*		*05/31/12 03:09*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
1,2-Dichlorobenzene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
1,3-Dichlorobenzene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
1,4-Dichlorobenzene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
1-Methylnaphthalene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2,4,5-Trichlorophenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2,4,6-Trichlorophenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2,4-Dichlorophenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2,4-Dimethylphenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2,4-Dinitrophenol	<2200		2200		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2,4-Dinitrotoluene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2,6-Dinitrotoluene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2-Chlorophenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2-Methylnaphthalene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2-Methylphenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2-Nitroaniline	<2200		2200		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
2-Nitrophenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
3 & 4 Methylphenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
3,3'-Dichlorobenzidine	<850		850		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-12 3'-6'
Date Collected: 05/30/12 09:11
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-8
Matrix: Solid
Percent Solids: 77.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,6-Dinitro-2-methylphenol	<2200		2200		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
4-Bromophenyl phenyl ether	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
4-Chloro-3-methylphenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
4-Chloroaniline	<850		850		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
4-Chlorophenyl phenyl ether	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
4-Nitroaniline	<2200		2200		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
4-Nitrophenol	<2200		2200		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Acenaphthene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Acenaphthylene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Anthracene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Benzidine	<3500		3500		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Benzo[a]anthracene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Benzo[a]pyrene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Benzo[b]fluoranthene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Benzo[g,h,i]perylene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Benzo[k]fluoranthene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Bis(2-chloroethoxy)methane	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Bis(2-chloroethyl)ether	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Bis(2-ethylhexyl) phthalate	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Butyl benzyl phthalate	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Chrysene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Di-n-butyl phthalate	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Di-n-octyl phthalate	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Dibenz(a,h)anthracene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Dibenzofuran	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Diethyl phthalate	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Dimethyl phthalate	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Dinoseb	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Fluoranthene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Fluorene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Hexachlorobenzene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Hexachlorobutadiene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Hexachlorocyclopentadiene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Hexachloroethane	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Indeno[1,2,3-cd]pyrene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Isophorone	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
N-Nitrosodi-n-propylamine	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
N-Nitrosodiphenylamine	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Naphthalene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Nitrobenzene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Pentachlorophenol	<2200		2200		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Phenanthrene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Phenol	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Pyrene	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
Carbazole	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5
N-Nitrosodimethylamine	<430		430		ug/Kg	☼	05/31/12 12:00	05/31/12 23:15	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 23:15*	*5*
2-Fluorobiphenyl	*71*		*31 - 130*	*05/31/12 12:00*	*05/31/12 23:15*	*5*
2-Fluorophenol (Surr)	*76*		*10 - 128*	*05/31/12 12:00*	*05/31/12 23:15*	*5*

Client Sample ID: B-12 3'-6'

Lab Sample ID: 700-68015-8

Date Collected: 05/30/12 09:11
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 77.4

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Nitrobenzene-d5 (Surr)	*69*		*35 - 130*	*05/31/12 12:00*	*05/31/12 23:15*	*5*
Phenol-d5 (Surr)	*75*		*29 - 130*	*05/31/12 12:00*	*05/31/12 23:15*	*5*
Terphenyl-d14 (Surr)	*106*		*37 - 149*	*05/31/12 12:00*	*05/31/12 23:15*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<43		43		ug/Kg	☼	05/31/12 09:00	05/31/12 16:51	5
PCB-1221	<87		87		ug/Kg	☼	05/31/12 09:00	05/31/12 16:51	5
PCB-1232	<43		43		ug/Kg	☼	05/31/12 09:00	05/31/12 16:51	5
PCB-1242	<43		43		ug/Kg	☼	05/31/12 09:00	05/31/12 16:51	5
PCB-1248	<43		43		ug/Kg	☼	05/31/12 09:00	05/31/12 16:51	5
PCB-1254	<43		43		ug/Kg	☼	05/31/12 09:00	05/31/12 16:51	5
PCB-1260	<43		43		ug/Kg	☼	05/31/12 09:00	05/31/12 16:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*30 - 150*	*05/31/12 09:00*	*05/31/12 16:51*	*5*
Tetrachloro-m-xylene	*61*		*30 - 150*	*05/31/12 09:00*	*05/31/12 16:51*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.1		1.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Arsenic	**2.5**		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Beryllium	<0.45		0.45		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Cadmium	<0.57		0.57		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Chromium	**6.6**		1.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Copper	**27**		2.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Lead	**270**		0.85		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Nickel	<4.5		4.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Selenium	<1.7		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Antimony	<2.3		2.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Thallium	<1.7		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1
Zinc	**74**		2.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:35	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.094**		0.016		mg/Kg	☼	05/31/12 10:25	06/01/12 12:52	1

Client Sample ID: B-13 0'-3'

Lab Sample ID: 700-68015-9

Date Collected: 05/30/12 09:30
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,1,1-Trichloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,1,2-Trichloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,1-Dichloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,1-Dichloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,2-Dichloroethane	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,2-Dichlorobenzene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,3-Dichlorobenzene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,4-Dichlorobenzene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-13 0'-3'
Date Collected: 05/30/12 09:30
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-9
Matrix: Solid
Percent Solids: 88.5

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
1,2-Dichloropropane	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Acetone	<56		56		ug/Kg	☼		06/01/12 02:31	1
Benzene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Bromoform	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Bromomethane	<11		11		ug/Kg	☼		06/01/12 02:31	1
Carbon disulfide	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Carbon tetrachloride	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Chlorobenzene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Chlorodibromomethane	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Chloroethane	<11		11		ug/Kg	☼		06/01/12 02:31	1
Chloromethane	<11		11		ug/Kg	☼		06/01/12 02:31	1
Chloroform	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Dichlorobromomethane	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Ethylbenzene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
2-Hexanone	<28		28		ug/Kg	☼		06/01/12 02:31	1
Methylene Chloride	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
4-Methyl-2-pentanone (MIBK)	<28		28		ug/Kg	☼		06/01/12 02:31	1
2-Butanone (MEK)	<28		28		ug/Kg	☼		06/01/12 02:31	1
o-Xylene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Xylenes, Total	<17		17		ug/Kg	☼		06/01/12 02:31	1
Styrene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Trichloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Toluene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
Vinyl chloride	<11		11		ug/Kg	☼		06/01/12 02:31	1
trans-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
trans-1,2-Dichloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
cis-1,3-Dichloropropene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1
m-Xylene & p-Xylene	<11		11		ug/Kg	☼		06/01/12 02:31	1
Tetrachloroethene	<5.6		5.6		ug/Kg	☼		06/01/12 02:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*97*		*30 - 140*		*06/01/12 02:31*	*1*
4-Bromofluorobenzene	*95*		*30 - 126*		*06/01/12 02:31*	*1*
Toluene-d8 (Surr)	*98*		*42 - 130*		*06/01/12 02:31*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
1,2-Dichlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
1,3-Dichlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
1,4-Dichlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
1-Methylnaphthalene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2,4,5-Trichlorophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2,4,6-Trichlorophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2,4-Dichlorophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2,4-Dimethylphenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2,4-Dinitrophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2,4-Dinitrotoluene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2,6-Dinitrotoluene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2-Chlorophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-13 0'-3'
Date Collected: 05/30/12 09:30
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-9
Matrix: Solid
Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2-Methylphenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2-Nitroaniline	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
2-Nitrophenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
3 & 4 Methylphenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
3,3'-Dichlorobenzidine	<750		750		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
4,6-Dinitro-2-methylphenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
4-Bromophenyl phenyl ether	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
4-Chloro-3-methylphenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
4-Chloroaniline	<750		750		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
4-Chlorophenyl phenyl ether	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
4-Nitroaniline	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
4-Nitrophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Acenaphthene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Acenaphthylene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Anthracene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Benzidine	<3100		3100		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Benzo[a]anthracene	**930**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Benzo[a]pyrene	**1200**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Benzo[b]fluoranthene	**1700**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Benzo[g,h,i]perylene	**770**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Benzo[k]fluoranthene	**380**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Bis(2-chloroethoxy)methane	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Bis(2-chloroethyl)ether	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Bis(2-ethylhexyl) phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Butyl benzyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Chrysene	**1200**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Di-n-butyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Di-n-octyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Dibenz(a,h)anthracene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Dibenzofuran	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Diethyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Dimethyl phthalate	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Dinoseb	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Fluoranthene	**1800**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Fluorene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Hexachlorobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Hexachlorobutadiene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Hexachlorocyclopentadiene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Hexachloroethane	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Indeno[1,2,3-cd]pyrene	**700**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Isophorone	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
N-Nitrosodi-n-propylamine	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
N-Nitrosodiphenylamine	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Naphthalene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Nitrobenzene	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Pentachlorophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Phenanthrene	**900**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Phenol	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Pyrene	**1600**		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5
Carbazole	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-13 0'-3'

Lab Sample ID: 700-68015-9
Date Collected: 05/30/12 09:30
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 88.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodimethylamine	<370		370		ug/Kg	☼	05/31/12 12:00	05/31/12 21:46	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*71*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 21:46*	*5*
2-Fluorobiphenyl	*67*		*31 - 130*	*05/31/12 12:00*	*05/31/12 21:46*	*5*
2-Fluorophenol (Surr)	*35*		*10 - 128*	*05/31/12 12:00*	*05/31/12 21:46*	*5*
Nitrobenzene-d5 (Surr)	*48*		*35 - 130*	*05/31/12 12:00*	*05/31/12 21:46*	*5*
Phenol-d5 (Surr)	*43*		*29 - 130*	*05/31/12 12:00*	*05/31/12 21:46*	*5*
Terphenyl-d14 (Surr)	*66*		*37 - 149*	*05/31/12 12:00*	*05/31/12 21:46*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 17:23	5
PCB-1221	<76		76		ug/Kg	☼	05/31/12 09:00	05/31/12 17:23	5
PCB-1232	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 17:23	5
PCB-1242	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 17:23	5
PCB-1248	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 17:23	5
PCB-1254	<37		37		ug/Kg	☼	05/31/12 09:00	05/31/12 17:23	5
PCB-1260	**51**		37		ug/Kg	☼	05/31/12 09:00	05/31/12 17:23	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*68*		*30 - 150*	*05/31/12 09:00*	*05/31/12 17:23*	*5*
Tetrachloro-m-xylene	*68*		*30 - 150*	*05/31/12 09:00*	*05/31/12 17:23*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Arsenic	**46**		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Beryllium	**1.0**		0.41		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Cadmium	**1.4**		0.51		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Chromium	**63**		1.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Copper	**250**		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Lead	**550**		0.77		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Nickel	**22**		4.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Selenium	**1.5**		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Antimony	**14**		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Thallium	<1.5		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1
Zinc	**330**		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:38	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.51**		0.013		mg/Kg	☼	05/31/12 10:25	06/01/12 12:54	1

Client Sample ID: B-13 3'-6'

Lab Sample ID: 700-68015-10
Date Collected: 05/30/12 09:37
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 75.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
1,1,1-Trichloroethane	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
1,1,2-Trichloroethane	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-13 3'-6'
Date Collected: 05/30/12 09:37
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-10
Matrix: Solid
Percent Solids: 75.2

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
1,1-Dichloroethene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
1,2-Dichloroethane	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
1,2-Dichlorobenzene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
1,3-Dichlorobenzene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
1,4-Dichlorobenzene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
cis-1,2-Dichloroethene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
1,2-Dichloropropane	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Acetone	**120**		65		ug/Kg	☼		06/01/12 01:28	1
Benzene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Bromoform	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Bromomethane	<13		13		ug/Kg	☼		06/01/12 01:28	1
Carbon disulfide	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Carbon tetrachloride	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Chlorobenzene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Chlorodibromomethane	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Chloroethane	<13		13		ug/Kg	☼		06/01/12 01:28	1
Chloromethane	<13		13		ug/Kg	☼		06/01/12 01:28	1
Chloroform	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Dichlorobromomethane	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Ethylbenzene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
2-Hexanone	<33		33		ug/Kg	☼		06/01/12 01:28	1
Methylene Chloride	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
4-Methyl-2-pentanone (MIBK)	<33		33		ug/Kg	☼		06/01/12 01:28	1
2-Butanone (MEK)	<33		33		ug/Kg	☼		06/01/12 01:28	1
o-Xylene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Xylenes, Total	<20		20		ug/Kg	☼		06/01/12 01:28	1
Styrene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Trichloroethene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Toluene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
Vinyl chloride	<13		13		ug/Kg	☼		06/01/12 01:28	1
trans-1,3-Dichloropropene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
trans-1,2-Dichloroethene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
cis-1,3-Dichloropropene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1
m-Xylene & p-Xylene	<13		13		ug/Kg	☼		06/01/12 01:28	1
Tetrachloroethene	<6.5		6.5		ug/Kg	☼		06/01/12 01:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*105*		*30 - 140*		*06/01/12 01:28*	*1*
4-Bromofluorobenzene	*84*		*30 - 126*		*06/01/12 01:28*	*1*
Toluene-d8 (Surr)	*95*		*42 - 130*		*06/01/12 01:28*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
1,2-Dichlorobenzene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
1,3-Dichlorobenzene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
1,4-Dichlorobenzene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
1-Methylnaphthalene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2,4,5-Trichlorophenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2,4,6-Trichlorophenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-13 3'-6'
Date Collected: 05/30/12 09:37
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-10
Matrix: Solid
Percent Solids: 75.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2,4-Dimethylphenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2,4-Dinitrophenol	<2300		2300		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2,4-Dinitrotoluene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2,6-Dinitrotoluene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2-Chlorophenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2-Methylnaphthalene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2-Methylphenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2-Nitroaniline	<2300		2300		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
2-Nitrophenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
3 & 4 Methylphenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
3,3'-Dichlorobenzidine	<880		880		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
4,6-Dinitro-2-methylphenol	<2300		2300		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
4-Bromophenyl phenyl ether	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
4-Chloro-3-methylphenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
4-Chloroaniline	<880		880		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
4-Chlorophenyl phenyl ether	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
4-Nitroaniline	<2300		2300		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
4-Nitrophenol	<2300		2300		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Acenaphthene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Acenaphthylene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Anthracene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Benzidine	<3600		3600		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Benzo[a]anthracene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Benzo[a]pyrene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Benzo[b]fluoranthene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Benzo[g,h,i]perylene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Benzo[k]fluoranthene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Bis(2-chloroethoxy)methane	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Bis(2-chloroethyl)ether	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Bis(2-ethylhexyl) phthalate	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Butyl benzyl phthalate	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Chrysene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Di-n-butyl phthalate	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Di-n-octyl phthalate	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Dibenz(a,h)anthracene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Dibenzofuran	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Diethyl phthalate	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Dimethyl phthalate	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Dinoseb	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Fluoranthene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Fluorene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Hexachlorobenzene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Hexachlorobutadiene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Hexachlorocyclopentadiene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Hexachloroethane	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Indeno[1,2,3-cd]pyrene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Isophorone	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
N-Nitrosodi-n-propylamine	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
N-Nitrosodiphenylamine	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Naphthalene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-13 3'-6'
Date Collected: 05/30/12 09:37
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-10
Matrix: Solid
Percent Solids: 75.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrobenzene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Pentachlorophenol	<2300		2300		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Phenanthrene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Phenol	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Pyrene	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
Carbazole	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5
N-Nitrosodimethylamine	<440		440		ug/Kg	☼	05/31/12 12:00	05/31/12 22:17	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 22:17*	*5*
2-Fluorobiphenyl	*81*		*31 - 130*	*05/31/12 12:00*	*05/31/12 22:17*	*5*
2-Fluorophenol (Surr)	*50*		*10 - 128*	*05/31/12 12:00*	*05/31/12 22:17*	*5*
Nitrobenzene-d5 (Surr)	*55*		*35 - 130*	*05/31/12 12:00*	*05/31/12 22:17*	*5*
Phenol-d5 (Surr)	*56*		*29 - 130*	*05/31/12 12:00*	*05/31/12 22:17*	*5*
Terphenyl-d14 (Surr)	*76*		*37 - 149*	*05/31/12 12:00*	*05/31/12 22:17*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<44		44		ug/Kg	☼	05/31/12 09:00	05/31/12 17:54	5
PCB-1221	<89		89		ug/Kg	☼	05/31/12 09:00	05/31/12 17:54	5
PCB-1232	<44		44		ug/Kg	☼	05/31/12 09:00	05/31/12 17:54	5
PCB-1242	<44		44		ug/Kg	☼	05/31/12 09:00	05/31/12 17:54	5
PCB-1248	<44		44		ug/Kg	☼	05/31/12 09:00	05/31/12 17:54	5
PCB-1254	<44		44		ug/Kg	☼	05/31/12 09:00	05/31/12 17:54	5
PCB-1260	<44		44		ug/Kg	☼	05/31/12 09:00	05/31/12 17:54	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*50*		*30 - 150*	*05/31/12 09:00*	*05/31/12 17:54*	*5*
Tetrachloro-m-xylene	*58*		*30 - 150*	*05/31/12 09:00*	*05/31/12 17:54*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.1		1.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Arsenic	**21**		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Beryllium	<0.46		0.46		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Cadmium	**1.1**		0.57		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Chromium	**6.5**		1.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Copper	**65**		2.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Lead	**220**		0.86		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Nickel	**32**		4.6		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Selenium	<1.7		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Antimony	**5.4**		2.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Thallium	<1.7		1.7		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1
Zinc	**200**		2.3		mg/Kg	☼	05/31/12 09:00	05/31/12 19:41	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.51**		0.014		mg/Kg	☼	05/31/12 10:25	06/01/12 12:56	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-14 0'-3'
Date Collected: 05/30/12 10:05
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-11
Matrix: Solid
Percent Solids: 83.3

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,1,1-Trichloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,1,2-Trichloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,1-Dichloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,1-Dichloroethene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,2-Dichloroethane	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,2-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,3-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,4-Dichlorobenzene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
cis-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
1,2-Dichloropropane	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Acetone	<60		60		ug/Kg	☼		06/01/12 20:20	1
Benzene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Bromoform	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Bromomethane	<12		12		ug/Kg	☼		06/01/12 20:20	1
Carbon disulfide	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Carbon tetrachloride	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Chlorobenzene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Chlorodibromomethane	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Chloroethane	<12		12		ug/Kg	☼		06/01/12 20:20	1
Chloromethane	<12		12		ug/Kg	☼		06/01/12 20:20	1
Chloroform	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Dichlorobromomethane	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Ethylbenzene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
2-Hexanone	<30		30		ug/Kg	☼		06/01/12 20:20	1
Methylene Chloride	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
4-Methyl-2-pentanone (MIBK)	<30		30		ug/Kg	☼		06/01/12 20:20	1
2-Butanone (MEK)	<30		30		ug/Kg	☼		06/01/12 20:20	1
o-Xylene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Xylenes, Total	<18		18		ug/Kg	☼		06/01/12 20:20	1
Styrene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Trichloroethene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Toluene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
Vinyl chloride	<12		12		ug/Kg	☼		06/01/12 20:20	1
trans-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
trans-1,2-Dichloroethene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
cis-1,3-Dichloropropene	<6.0		6.0		ug/Kg	☼		06/01/12 20:20	1
m-Xylene & p-Xylene	<12		12		ug/Kg	☼		06/01/12 20:20	1
Tetrachloroethene	**7.7**		6.0		ug/Kg	☼		06/01/12 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*101*		*30 - 140*		*06/01/12 20:20*	*1*
4-Bromofluorobenzene	*68*		*30 - 126*		*06/01/12 20:20*	*1*
Toluene-d8 (Surr)	*95*		*42 - 130*		*06/01/12 20:20*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
1,2-Dichlorobenzene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
1,3-Dichlorobenzene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
1,4-Dichlorobenzene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-14 0'-3'
Date Collected: 05/30/12 10:05
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-11
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2,4,5-Trichlorophenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2,4,6-Trichlorophenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2,4-Dichlorophenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2,4-Dimethylphenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2,4-Dinitrophenol	<2000		2000		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2,4-Dinitrotoluene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2,6-Dinitrotoluene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2-Chlorophenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2-Methylnaphthalene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2-Methylphenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2-Nitroaniline	<2000		2000		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
2-Nitrophenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
3 & 4 Methylphenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
3,3'-Dichlorobenzidine	<790		790		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
4,6-Dinitro-2-methylphenol	<2000		2000		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
4-Bromophenyl phenyl ether	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
4-Chloro-3-methylphenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
4-Chloroaniline	<790		790		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
4-Chlorophenyl phenyl ether	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
4-Nitroaniline	<2000		2000		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
4-Nitrophenol	<2000		2000		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Acenaphthene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Acenaphthylene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Anthracene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Benzidine	<3200		3200		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Benzo[a]anthracene	**1300**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Benzo[a]pyrene	**1500**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Benzo[b]fluoranthene	**2100**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Benzo[g,h,i]perylene	**1100**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Benzo[k]fluoranthene	**600**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Bis(2-chloroethoxy)methane	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Bis(2-chloroethyl)ether	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Bis(2-ethylhexyl) phthalate	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Butyl benzyl phthalate	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Chrysene	**1600**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Di-n-butyl phthalate	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Di-n-octyl phthalate	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Dibenz(a,h)anthracene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Dibenzofuran	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Diethyl phthalate	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Dimethyl phthalate	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Dinoseb	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Fluoranthene	**2500**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Fluorene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Hexachlorobenzene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Hexachlorobutadiene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Hexachlorocyclopentadiene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Hexachloroethane	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Indeno[1,2,3-cd]pyrene	**910**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Isophorone	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-14 0'-3'
Date Collected: 05/30/12 10:05
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-11
Matrix: Solid
Percent Solids: 83.3

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
N-Nitrosodiphenylamine	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Naphthalene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Nitrobenzene	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Pentachlorophenol	<2000		2000		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Phenanthrene	**950**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Phenol	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Pyrene	**2100**		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
Carbazole	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5
N-Nitrosodimethylamine	<400		400		ug/Kg	☼	05/31/12 12:00	05/31/12 22:48	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*75*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 22:48*	*5*
2-Fluorobiphenyl	*64*		*31 - 130*	*05/31/12 12:00*	*05/31/12 22:48*	*5*
2-Fluorophenol (Surr)	*48*		*10 - 128*	*05/31/12 12:00*	*05/31/12 22:48*	*5*
Nitrobenzene-d5 (Surr)	*45*		*35 - 130*	*05/31/12 12:00*	*05/31/12 22:48*	*5*
Phenol-d5 (Surr)	*40*		*29 - 130*	*05/31/12 12:00*	*05/31/12 22:48*	*5*
Terphenyl-d14 (Surr)	*65*		*37 - 149*	*05/31/12 12:00*	*05/31/12 22:48*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<40		40		ug/Kg	☼	05/31/12 09:00	05/31/12 18:25	5
PCB-1221	<80		80		ug/Kg	☼	05/31/12 09:00	05/31/12 18:25	5
PCB-1232	<40		40		ug/Kg	☼	05/31/12 09:00	05/31/12 18:25	5
PCB-1242	<40		40		ug/Kg	☼	05/31/12 09:00	05/31/12 18:25	5
PCB-1248	<40		40		ug/Kg	☼	05/31/12 09:00	05/31/12 18:25	5
PCB-1254	<40		40		ug/Kg	☼	05/31/12 09:00	05/31/12 18:25	5
PCB-1260	<40		40		ug/Kg	☼	05/31/12 09:00	05/31/12 18:25	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*63*		*30 - 150*	*05/31/12 09:00*	*05/31/12 18:25*	*5*
Tetrachloro-m-xylene	*59*		*30 - 150*	*05/31/12 09:00*	*05/31/12 18:25*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.1		1.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Arsenic	**25**		1.6		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Beryllium	<0.42		0.42		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Cadmium	**3.3**		0.53		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Chromium	**16**		1.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Copper	**400**		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Lead	**380**		0.79		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Nickel	**13**		4.2		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Selenium	<1.6		1.6		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Antimony	**10**		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Thallium	<1.6		1.6		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1
Zinc	**1000**		2.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:45	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.33**		0.014		mg/Kg	☼	05/31/12 10:25	06/01/12 12:58	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-14 3'- 6'
Date Collected: 05/30/12 10:11
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-12
Matrix: Solid
Percent Solids: 62.9

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,1,1-Trichloroethane	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,1,2-Trichloroethane	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,1-Dichloroethane	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,1-Dichloroethene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,2-Dichloroethane	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,2-Dichlorobenzene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,3-Dichlorobenzene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,4-Dichlorobenzene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
cis-1,2-Dichloroethene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
1,2-Dichloropropane	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Acetone	160		79		ug/Kg	☼		06/01/12 20:52	1
Benzene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Bromoform	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Bromomethane	<16		16		ug/Kg	☼		06/01/12 20:52	1
Carbon disulfide	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Carbon tetrachloride	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Chlorobenzene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Chlorodibromomethane	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Chloroethane	<16		16		ug/Kg	☼		06/01/12 20:52	1
Chloromethane	<16		16		ug/Kg	☼		06/01/12 20:52	1
Chloroform	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Dichlorobromomethane	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Ethylbenzene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
2-Hexanone	<39		39		ug/Kg	☼		06/01/12 20:52	1
Methylene Chloride	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
4-Methyl-2-pentanone (MIBK)	<39		39		ug/Kg	☼		06/01/12 20:52	1
2-Butanone (MEK)	<39		39		ug/Kg	☼		06/01/12 20:52	1
o-Xylene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Xylenes, Total	<24		24		ug/Kg	☼		06/01/12 20:52	1
Styrene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Trichloroethene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Toluene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
Vinyl chloride	<16		16		ug/Kg	☼		06/01/12 20:52	1
trans-1,3-Dichloropropene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
trans-1,2-Dichloroethene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
cis-1,3-Dichloropropene	<7.9		7.9		ug/Kg	☼		06/01/12 20:52	1
m-Xylene & p-Xylene	<16		16		ug/Kg	☼		06/01/12 20:52	1
Tetrachloroethene	10		7.9		ug/Kg	☼		06/01/12 20:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*102*		*30 - 140*		*06/01/12 20:52*	*1*
4-Bromofluorobenzene	*80*		*30 - 126*		*06/01/12 20:52*	*1*
Toluene-d8 (Surr)	*96*		*42 - 130*		*06/01/12 20:52*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
1,2-Dichlorobenzene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
1,3-Dichlorobenzene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
1,4-Dichlorobenzene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-14 3'-6'
Date Collected: 05/30/12 10:11
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-12
Matrix: Solid
Percent Solids: 62.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2,4,5-Trichlorophenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2,4,6-Trichlorophenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2,4-Dichlorophenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2,4-Dimethylphenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2,4-Dinitrophenol	<2700		2700		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2,4-Dinitrotoluene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2,6-Dinitrotoluene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2-Chlorophenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2-Methylnaphthalene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2-Methylphenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2-Nitroaniline	<2700		2700		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
2-Nitrophenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
3 & 4 Methylphenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
3,3'-Dichlorobenzidine	<1000		1000		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
4,6-Dinitro-2-methylphenol	<2700		2700		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
4-Bromophenyl phenyl ether	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
4-Chloro-3-methylphenol	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
4-Chloroaniline	<1000		1000		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
4-Chlorophenyl phenyl ether	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
4-Nitroaniline	<2700		2700		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
4-Nitrophenol	<2700		2700		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Acenaphthene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Acenaphthylene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Anthracene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Benzidine	<4300		4300		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Benzo[a]anthracene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Benzo[a]pyrene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Benzo[b]fluoranthene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Benzo[g,h,i]perylene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Benzo[k]fluoranthene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Bis(2-chloroethoxy)methane	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Bis(2-chloroethyl)ether	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Bis(2-ethylhexyl) phthalate	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Butyl benzyl phthalate	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Chrysene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Di-n-butyl phthalate	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Di-n-octyl phthalate	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Dibenz(a,h)anthracene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Dibenzofuran	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Diethyl phthalate	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Dimethyl phthalate	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Dinoseb	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Fluoranthene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Fluorene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Hexachlorobenzene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Hexachlorobutadiene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Hexachlorocyclopentadiene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Hexachloroethane	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Indeno[1,2,3-cd]pyrene	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5
Isophorone	<520		520		ug/Kg	☼	05/31/12 12:00	05/31/12 23:19	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-14 3'-6'
Date Collected: 05/30/12 10:11
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-12
Matrix: Solid
Percent Solids: 62.9

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
N-Nitrosodiphenylamine	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
Naphthalene	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
Nitrobenzene	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
Pentachlorophenol	<2700		2700		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
Phenanthrene	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
Phenol	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
Pyrene	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
Carbazole	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5
N-Nitrosodimethylamine	<520		520		ug/Kg		05/31/12 12:00	05/31/12 23:19	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*84*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 23:19*	*5*
2-Fluorobiphenyl	*76*		*31 - 130*	*05/31/12 12:00*	*05/31/12 23:19*	*5*
2-Fluorophenol (Surr)	*37*		*10 - 128*	*05/31/12 12:00*	*05/31/12 23:19*	*5*
Nitrobenzene-d5 (Surr)	*52*		*35 - 130*	*05/31/12 12:00*	*05/31/12 23:19*	*5*
Phenol-d5 (Surr)	*62*		*29 - 130*	*05/31/12 12:00*	*05/31/12 23:19*	*5*
Terphenyl-d14 (Surr)	*73*		*37 - 149*	*05/31/12 12:00*	*05/31/12 23:19*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<52		52		ug/Kg		05/31/12 09:00	05/31/12 18:56	5
PCB-1221	<110		110		ug/Kg		05/31/12 09:00	05/31/12 18:56	5
PCB-1232	<52		52		ug/Kg		05/31/12 09:00	05/31/12 18:56	5
PCB-1242	<52		52		ug/Kg		05/31/12 09:00	05/31/12 18:56	5
PCB-1248	<52		52		ug/Kg		05/31/12 09:00	05/31/12 18:56	5
PCB-1254	<52		52		ug/Kg		05/31/12 09:00	05/31/12 18:56	5
PCB-1260	<52		52		ug/Kg		05/31/12 09:00	05/31/12 18:56	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*52*		*30 - 150*	*05/31/12 09:00*	*05/31/12 18:56*	*5*
Tetrachloro-m-xylene	*60*		*30 - 150*	*05/31/12 09:00*	*05/31/12 18:56*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.4		1.4		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Arsenic	**14**		2.1		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Beryllium	<0.57		0.57		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Cadmium	**1.1**		0.71		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Chromium	**6.5**		1.4		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Copper	**150**		2.8		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Lead	**680**		1.1		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Nickel	**6.8**		5.7		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Selenium	<2.1		2.1		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Antimony	<2.8		2.8		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Thallium	<2.1		2.1		mg/Kg		05/31/12 09:00	05/31/12 19:48	1
Zinc	**240**		2.8		mg/Kg		05/31/12 09:00	05/31/12 19:48	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**1.4**		0.097		mg/Kg		05/31/12 10:25	06/01/12 13:14	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-15 0'-3'
Date Collected: 05/30/12 10:30
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-13
Matrix: Solid
Percent Solids: 87.2

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,1,1-Trichloroethane	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,1,2-Trichloroethane	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,1-Dichloroethane	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,1-Dichloroethene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,2-Dichloroethane	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,2-Dichlorobenzene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,3-Dichlorobenzene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,4-Dichlorobenzene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
cis-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
1,2-Dichloropropane	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Acetone	<57		57		ug/Kg	☼		06/01/12 21:23	1
Benzene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Bromoform	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Bromomethane	<11		11		ug/Kg	☼		06/01/12 21:23	1
Carbon disulfide	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Carbon tetrachloride	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Chlorobenzene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Chlorodibromomethane	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Chloroethane	<11		11		ug/Kg	☼		06/01/12 21:23	1
Chloromethane	<11		11		ug/Kg	☼		06/01/12 21:23	1
Chloroform	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Dichlorobromomethane	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Ethylbenzene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
2-Hexanone	<29		29		ug/Kg	☼		06/01/12 21:23	1
Methylene Chloride	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
4-Methyl-2-pentanone (MIBK)	<29		29		ug/Kg	☼		06/01/12 21:23	1
2-Butanone (MEK)	<29		29		ug/Kg	☼		06/01/12 21:23	1
o-Xylene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Xylenes, Total	<17		17		ug/Kg	☼		06/01/12 21:23	1
Styrene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Trichloroethene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Toluene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
Vinyl chloride	<11		11		ug/Kg	☼		06/01/12 21:23	1
trans-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
trans-1,2-Dichloroethene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
cis-1,3-Dichloropropene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1
m-Xylene & p-Xylene	<11		11		ug/Kg	☼		06/01/12 21:23	1
Tetrachloroethene	<5.7		5.7		ug/Kg	☼		06/01/12 21:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*95*		*30 - 140*		*06/01/12 21:23*	*1*
4-Bromofluorobenzene	*91*		*30 - 126*		*06/01/12 21:23*	*1*
Toluene-d8 (Surr)	*97*		*42 - 130*		*06/01/12 21:23*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
1,2-Dichlorobenzene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
1,3-Dichlorobenzene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
1,4-Dichlorobenzene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-15 0'-3'
Date Collected: 05/30/12 10:30
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-13
Matrix: Solid
Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2,4,5-Trichlorophenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2,4,6-Trichlorophenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2,4-Dichlorophenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2,4-Dimethylphenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2,4-Dinitrophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2,4-Dinitrotoluene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2,6-Dinitrotoluene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2-Chlorophenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2-Methylnaphthalene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2-Methylphenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2-Nitroaniline	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
2-Nitrophenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
3 & 4 Methylphenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
3,3'-Dichlorobenzidine	<760		760		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
4,6-Dinitro-2-methylphenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
4-Bromophenyl phenyl ether	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
4-Chloro-3-methylphenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
4-Chloroaniline	<760		760		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
4-Chlorophenyl phenyl ether	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
4-Nitroaniline	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
4-Nitrophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Acenaphthene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Acenaphthylene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Anthracene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Benzidine	<3100		3100		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Benzo[a]anthracene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Benzo[a]pyrene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Benzo[b]fluoranthene	**570**		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Benzo[g,h,i]perylene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Benzo[k]fluoranthene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Bis(2-chloroethoxy)methane	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Bis(2-chloroethyl)ether	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Bis(2-ethylhexyl) phthalate	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Butyl benzyl phthalate	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Chrysene	**570**		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Di-n-butyl phthalate	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Di-n-octyl phthalate	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Dibenz(a,h)anthracene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Dibenzofuran	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Diethyl phthalate	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Dimethyl phthalate	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Dinoseb	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Fluoranthene	**810**		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Fluorene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Hexachlorobenzene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Hexachlorobutadiene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Hexachlorocyclopentadiene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Hexachloroethane	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Indeno[1,2,3-cd]pyrene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Isophorone	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-15 0'-3'
Date Collected: 05/30/12 10:30
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-13
Matrix: Solid
Percent Solids: 87.2

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
N-Nitrosodiphenylamine	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Naphthalene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Nitrobenzene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Pentachlorophenol	<1900		1900		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Phenanthrene	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Phenol	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Pyrene	**780**		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
Carbazole	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5
N-Nitrosodimethylamine	<380		380		ug/Kg	☼	05/31/12 12:00	05/31/12 23:50	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*81*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 23:50*	*5*
2-Fluorobiphenyl	*63*		*31 - 130*	*05/31/12 12:00*	*05/31/12 23:50*	*5*
2-Fluorophenol (Surr)	*39*		*10 - 128*	*05/31/12 12:00*	*05/31/12 23:50*	*5*
Nitrobenzene-d5 (Surr)	*48*		*35 - 130*	*05/31/12 12:00*	*05/31/12 23:50*	*5*
Phenol-d5 (Surr)	*57*		*29 - 130*	*05/31/12 12:00*	*05/31/12 23:50*	*5*
Terphenyl-d14 (Surr)	*71*		*37 - 149*	*05/31/12 12:00*	*05/31/12 23:50*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<38		38		ug/Kg	☼	05/31/12 09:00	05/31/12 19:28	5
PCB-1221	<77		77		ug/Kg	☼	05/31/12 09:00	05/31/12 19:28	5
PCB-1232	<38		38		ug/Kg	☼	05/31/12 09:00	05/31/12 19:28	5
PCB-1242	<38		38		ug/Kg	☼	05/31/12 09:00	05/31/12 19:28	5
PCB-1248	<38		38		ug/Kg	☼	05/31/12 09:00	05/31/12 19:28	5
PCB-1254	<38		38		ug/Kg	☼	05/31/12 09:00	05/31/12 19:28	5
PCB-1260	**62**		38		ug/Kg	☼	05/31/12 09:00	05/31/12 19:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*46*		*30 - 150*	*05/31/12 09:00*	*05/31/12 19:28*	*5*
Tetrachloro-m-xylene	*45*		*30 - 150*	*05/31/12 09:00*	*05/31/12 19:28*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Arsenic	**6.5**		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Beryllium	<0.41		0.41		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Cadmium	**3.6**		0.51		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Chromium	**20**		1.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Copper	**96**		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Lead	**110**		0.77		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Nickel	**10**		4.1		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Selenium	<1.5		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Antimony	<2.0		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Thallium	<1.5		1.5		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1
Zinc	**690**		2.0		mg/Kg	☼	05/31/12 09:00	05/31/12 19:51	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.27**		0.015		mg/Kg	☼	05/31/12 10:25	06/01/12 13:03	1

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-15 3'-5.5'
Date Collected: 05/30/12 10:33
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-14
Matrix: Solid
Percent Solids: 78.5

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,1,1-Trichloroethane	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,1,2-Trichloroethane	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,1-Dichloroethane	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,1-Dichloroethene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,2-Dichloroethane	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,2-Dichlorobenzene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,3-Dichlorobenzene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,4-Dichlorobenzene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
cis-1,2-Dichloroethene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
1,2-Dichloropropane	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Acetone	**84**		63		ug/Kg	☼		06/01/12 21:55	1
Benzene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Bromoform	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Bromomethane	<13		13		ug/Kg	☼		06/01/12 21:55	1
Carbon disulfide	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Carbon tetrachloride	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Chlorobenzene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Chlorodibromomethane	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Chloroethane	<13		13		ug/Kg	☼		06/01/12 21:55	1
Chloromethane	<13		13		ug/Kg	☼		06/01/12 21:55	1
Chloroform	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Dichlorobromomethane	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Ethylbenzene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
2-Hexanone	<32		32		ug/Kg	☼		06/01/12 21:55	1
Methylene Chloride	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
4-Methyl-2-pentanone (MIBK)	<32		32		ug/Kg	☼		06/01/12 21:55	1
2-Butanone (MEK)	<32		32		ug/Kg	☼		06/01/12 21:55	1
o-Xylene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Xylenes, Total	<19		19		ug/Kg	☼		06/01/12 21:55	1
Styrene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Trichloroethene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Toluene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
Vinyl chloride	<13		13		ug/Kg	☼		06/01/12 21:55	1
trans-1,3-Dichloropropene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
trans-1,2-Dichloroethene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
cis-1,3-Dichloropropene	<6.3		6.3		ug/Kg	☼		06/01/12 21:55	1
m-Xylene & p-Xylene	<13		13		ug/Kg	☼		06/01/12 21:55	1
Tetrachloroethene	**7.3**		6.3		ug/Kg	☼		06/01/12 21:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*100*		*30 - 140*		*06/01/12 21:55*	*1*
4-Bromofluorobenzene	*68*		*30 - 126*		*06/01/12 21:55*	*1*
Toluene-d8 (Surr)	*91*		*42 - 130*		*06/01/12 21:55*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
1,2-Dichlorobenzene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
1,3-Dichlorobenzene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
1,4-Dichlorobenzene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-15 3'-5.5'
Date Collected: 05/30/12 10:33
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-14
Matrix: Solid
Percent Solids: 78.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	**670**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2,4,5-Trichlorophenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2,4,6-Trichlorophenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2,4-Dichlorophenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2,4-Dimethylphenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2,4-Dinitrophenol	<2200		2200		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2,4-Dinitrotoluene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2,6-Dinitrotoluene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2-Chlorophenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2-Methylnaphthalene	**760**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2-Methylphenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2-Nitroaniline	<2200		2200		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
2-Nitrophenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
3 & 4 Methylphenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
3,3'-Dichlorobenzidine	<840		840		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
4,6-Dinitro-2-methylphenol	<2200		2200		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
4-Bromophenyl phenyl ether	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
4-Chloro-3-methylphenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
4-Chloroaniline	<840		840		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
4-Chlorophenyl phenyl ether	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
4-Nitroaniline	<2200		2200		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
4-Nitrophenol	<2200		2200		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Acenaphthene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Acenaphthylene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Anthracene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Benzidine	<3400		3400		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Benzo[a]anthracene	**700**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Benzo[a]pyrene	**660**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Benzo[b]fluoranthene	**970**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Benzo[g,h,i]perylene	**460**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Benzo[k]fluoranthene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Bis(2-chloroethoxy)methane	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Bis(2-chloroethyl)ether	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Bis(2-ethylhexyl) phthalate	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Butyl benzyl phthalate	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Chrysene	**930**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Di-n-butyl phthalate	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Di-n-octyl phthalate	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Dibenz(a,h)anthracene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Dibenzofuran	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Diethyl phthalate	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Dimethyl phthalate	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Dinoseb	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Fluoranthene	**1400**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Fluorene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Hexachlorobenzene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Hexachlorobutadiene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Hexachlorocyclopentadiene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Hexachloroethane	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Indeno[1,2,3-cd]pyrene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Isophorone	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-15 3'-5.5'
Date Collected: 05/30/12 10:33
Date Received: 05/30/12 11:56

Lab Sample ID: 700-68015-14
Matrix: Solid
Percent Solids: 78.5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-Nitrosodi-n-propylamine	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
N-Nitrosodiphenylamine	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Naphthalene	**420**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Nitrobenzene	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Pentachlorophenol	<2200		2200		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Phenanthrene	**1200**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Phenol	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Pyrene	**1200**		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
Carbazole	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5
N-Nitrosodimethylamine	<420		420		ug/Kg	☼	05/31/12 12:00	06/01/12 00:22	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*67*		*5.0 - 130*	*05/31/12 12:00*	*06/01/12 00:22*	*5*
2-Fluorobiphenyl	*55*		*31 - 130*	*05/31/12 12:00*	*06/01/12 00:22*	*5*
2-Fluorophenol (Surr)	*40*		*10 - 128*	*05/31/12 12:00*	*06/01/12 00:22*	*5*
Nitrobenzene-d5 (Surr)	*45*		*35 - 130*	*05/31/12 12:00*	*06/01/12 00:22*	*5*
Phenol-d5 (Surr)	*56*		*29 - 130*	*05/31/12 12:00*	*06/01/12 00:22*	*5*
Terphenyl-d14 (Surr)	*63*		*37 - 149*	*05/31/12 12:00*	*06/01/12 00:22*	*5*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<42		42		ug/Kg	☼	05/31/12 09:00	05/31/12 19:59	5
PCB-1221	<85		85		ug/Kg	☼	05/31/12 09:00	05/31/12 19:59	5
PCB-1232	<42		42		ug/Kg	☼	05/31/12 09:00	05/31/12 19:59	5
PCB-1242	<42		42		ug/Kg	☼	05/31/12 09:00	05/31/12 19:59	5
PCB-1248	<42		42		ug/Kg	☼	05/31/12 09:00	05/31/12 19:59	5
PCB-1254	<42		42		ug/Kg	☼	05/31/12 09:00	05/31/12 19:59	5
PCB-1260	<42		42		ug/Kg	☼	05/31/12 09:00	05/31/12 19:59	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*43*		*30 - 150*	*05/31/12 09:00*	*05/31/12 19:59*	*5*
Tetrachloro-m-xylene	*43*		*30 - 150*	*05/31/12 09:00*	*05/31/12 19:59*	*5*

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.2		1.2		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Arsenic	**16**		1.8		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Beryllium	<0.49		0.49		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Cadmium	**0.80**		0.61		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Chromium	**13**		1.2		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Copper	**150**		2.4		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Lead	**170**		0.92		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Nickel	**13**		4.9		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Selenium	<1.8		1.8		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Antimony	<2.4		2.4		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Thallium	<1.8		1.8		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1
Zinc	**420**		2.4		mg/Kg	☼	05/31/12 09:00	05/31/12 20:04	1

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.22**		0.016		mg/Kg	☼	05/31/12 10:25	06/01/12 13:05	1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 700-117614/6
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Acetone	<50		50		ug/Kg			05/30/12 19:46	1
Benzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Bromoform	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Bromomethane	<10		10		ug/Kg			05/30/12 19:46	1
Carbon disulfide	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Chlorobenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Chlorodibromomethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Chloroethane	<10		10		ug/Kg			05/30/12 19:46	1
Chloromethane	<10		10		ug/Kg			05/30/12 19:46	1
Chloroform	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Dichlorobromomethane	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Ethylbenzene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
2-Hexanone	<25		25		ug/Kg			05/30/12 19:46	1
Methylene Chloride	<5.0		5.0		ug/Kg			05/30/12 19:46	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg			05/30/12 19:46	1
2-Butanone (MEK)	<25		25		ug/Kg			05/30/12 19:46	1
o-Xylene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Xylenes, Total	<15		15		ug/Kg			05/30/12 19:46	1
Styrene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Trichloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Toluene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
Vinyl chloride	<10		10		ug/Kg			05/30/12 19:46	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/30/12 19:46	1
m-Xylene & p-Xylene	<10		10		ug/Kg			05/30/12 19:46	1
Tetrachloroethene	<5.0		5.0		ug/Kg			05/30/12 19:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*86*		*30 - 140*		*05/30/12 19:46*	*1*
4-Bromofluorobenzene	*95*		*30 - 126*		*05/30/12 19:46*	*1*
Toluene-d8 (Surr)	*101*		*42 - 130*		*05/30/12 19:46*	*1*

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 700-117614/4
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.3		ug/Kg		89	38 - 154
1,1,1-Trichloroethane	25.0	30.7		ug/Kg		123	64 - 148
1,1,2-Trichloroethane	25.0	26.4		ug/Kg		105	50 - 143
1,1-Dichloroethane	25.0	30.3		ug/Kg		121	56 - 148
1,1-Dichloroethene	25.0	27.6		ug/Kg		110	48 - 154
1,2-Dichloroethane	25.0	25.8		ug/Kg		103	58 - 147
1,2-Dichlorobenzene	25.0	27.2		ug/Kg		109	64 - 146
1,3-Dichlorobenzene	25.0	28.1		ug/Kg		112	64 - 135
1,4-Dichlorobenzene	25.0	28.4		ug/Kg		114	49 - 139
cis-1,2-Dichloroethene	25.0	22.0		ug/Kg		88	50 - 150
1,2-Dichloropropane	25.0	26.3		ug/Kg		105	63 - 134
Benzene	25.0	27.5		ug/Kg		110	69 - 137
Bromoform	25.0	23.9		ug/Kg		96	42 - 144
Carbon tetrachloride	25.0	31.3		ug/Kg		125	50 - 150
Chlorobenzene	25.0	28.8		ug/Kg		115	70 - 138
Chlorodibromomethane	25.0	24.9		ug/Kg		100	50 - 137
Chloroform	25.0	29.8		ug/Kg		119	65 - 136
Dichlorobromomethane	25.0	26.3		ug/Kg		105	50 - 150
Ethylbenzene	25.0	28.3		ug/Kg		113	72 - 145
Methylene Chloride	25.0	23.6		ug/Kg		95	58 - 145
o-Xylene	25.0	26.0		ug/Kg		104	50 - 150
Trichloroethene	25.0	31.2		ug/Kg		125	68 - 138
Toluene	25.0	28.6		ug/Kg		115	66 - 141
trans-1,3-Dichloropropene	25.0	24.0		ug/Kg		96	56 - 140
trans-1,2-Dichloroethene	25.0	31.1		ug/Kg		124	61 - 149
cis-1,3-Dichloropropene	25.0	25.1		ug/Kg		100	50 - 150
m-Xylene & p-Xylene	50.0	49.0		ug/Kg		98	50 - 150
Tetrachloroethene	25.0	31.0		ug/Kg		124	61 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*102*		*30 - 140*
4-Bromofluorobenzene	*97*		*30 - 126*
Toluene-d8 (Surr)	*99*		*42 - 130*

Lab Sample ID: LCSD 700-117614/5
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	21.3		ug/Kg		85	38 - 154	5	28
1,1,1-Trichloroethane	25.0	30.0		ug/Kg		120	64 - 148	2	54
1,1,2-Trichloroethane	25.0	26.6		ug/Kg		106	50 - 143	1	27
1,1-Dichloroethane	25.0	29.4		ug/Kg		117	56 - 148	3	38
1,1-Dichloroethene	25.0	29.4		ug/Kg		118	48 - 154	6	46
1,2-Dichloroethane	25.0	25.1		ug/Kg		100	58 - 147	3	25
1,2-Dichlorobenzene	25.0	23.9		ug/Kg		95	64 - 146	13	28
1,3-Dichlorobenzene	25.0	24.9		ug/Kg		99	64 - 135	12	34
1,4-Dichlorobenzene	25.0	25.4		ug/Kg		102	49 - 139	11	36
cis-1,2-Dichloroethene	25.0	20.9		ug/Kg		83	50 - 150	5	37

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 700-117614/5
Matrix: Solid
Analysis Batch: 117614

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane			25.0	25.4		ug/Kg		102	63 - 134	3	27
Benzene			25.0	26.5		ug/Kg		106	69 - 137	4	42
Bromoform			25.0	23.3		ug/Kg		93	42 - 144	2	24
Carbon tetrachloride			25.0	30.2		ug/Kg		121	50 - 150	4	59
Chlorobenzene			25.0	26.4		ug/Kg		106	70 - 138	9	34
Chlorodibromomethane			25.0	23.3		ug/Kg		93	50 - 137	7	22
Chloroform			25.0	28.8		ug/Kg		115	65 - 136	4	38
Dichlorobromomethane			25.0	24.9		ug/Kg		100	50 - 150	5	33
Ethylbenzene			25.0	24.6		ug/Kg		98	72 - 145	14	44
Methylene Chloride			25.0	28.3		ug/Kg		113	58 - 145	18	32
o-Xylene			25.0	23.2		ug/Kg		93	50 - 150	11	32
Trichloroethene			25.0	28.7		ug/Kg		115	68 - 138	8	34
Toluene			25.0	26.6		ug/Kg		107	66 - 141	7	32
trans-1,3-Dichloropropene			25.0	22.3		ug/Kg		89	56 - 140	7	50
trans-1,2-Dichloroethene			25.0	28.9		ug/Kg		115	61 - 149	7	56
cis-1,3-Dichloropropene			25.0	23.8		ug/Kg		95	50 - 150	5	30
m-Xylene & p-Xylene			50.0	42.8		ug/Kg		86	50 - 150	13	43
Tetrachloroethene			25.0	27.5		ug/Kg		110	61 - 141	12	44

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane	*101*		*30 - 140*
4-Bromofluorobenzene	*99*		*30 - 126*
Toluene-d8 (Surr)	*99*		*42 - 130*

Lab Sample ID: MB 700-117645/6
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Acetone	<50		50		ug/Kg			05/31/12 20:44	1
Benzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Bromoform	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Bromomethane	<10		10		ug/Kg			05/31/12 20:44	1
Carbon disulfide	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Chlorobenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Chlorodibromomethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Chloroethane	<10		10		ug/Kg			05/31/12 20:44	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 700-117645/6
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<10		10		ug/Kg			05/31/12 20:44	1
Chloroform	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Dichlorobromomethane	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Ethylbenzene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
2-Hexanone	<25		25		ug/Kg			05/31/12 20:44	1
Methylene Chloride	<5.0		5.0		ug/Kg			05/31/12 20:44	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg			05/31/12 20:44	1
2-Butanone (MEK)	<25		25		ug/Kg			05/31/12 20:44	1
o-Xylene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Xylenes, Total	<15		15		ug/Kg			05/31/12 20:44	1
Styrene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Trichloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Toluene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
Vinyl chloride	<10		10		ug/Kg			05/31/12 20:44	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/31/12 20:44	1
m-Xylene & p-Xylene	<10		10		ug/Kg			05/31/12 20:44	1
Tetrachloroethene	<5.0		5.0		ug/Kg			05/31/12 20:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*110*		*30 - 140*		*05/31/12 20:44*	*1*
4-Bromofluorobenzene	*96*		*30 - 126*		*05/31/12 20:44*	*1*
Toluene-d8 (Surr)	*98*		*42 - 130*		*05/31/12 20:44*	*1*

Lab Sample ID: LCS 700-117645/4
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.6		ug/Kg		91	38 - 154
1,1,1-Trichloroethane	25.0	25.4		ug/Kg		101	64 - 148
1,1,2-Trichloroethane	25.0	24.7		ug/Kg		99	50 - 143
1,1-Dichloroethane	25.0	32.3		ug/Kg		129	56 - 148
1,1-Dichloroethene	25.0	34.1		ug/Kg		136	48 - 154
1,2-Dichloroethane	25.0	19.3		ug/Kg		77	58 - 147
1,2-Dichlorobenzene	25.0	26.4		ug/Kg		105	64 - 146
1,3-Dichlorobenzene	25.0	25.9		ug/Kg		104	64 - 135
1,4-Dichlorobenzene	25.0	26.5		ug/Kg		106	49 - 139
cis-1,2-Dichloroethene	25.0	23.2		ug/Kg		93	50 - 150
1,2-Dichloropropane	25.0	24.5		ug/Kg		98	63 - 134
Benzene	25.0	25.8		ug/Kg		103	69 - 137
Bromoform	25.0	22.4		ug/Kg		89	42 - 144
Carbon tetrachloride	25.0	24.2		ug/Kg		97	50 - 150
Chlorobenzene	25.0	28.7		ug/Kg		115	70 - 138
Chlorodibromomethane	25.0	23.9		ug/Kg		96	50 - 137
Chloroform	25.0	32.7		ug/Kg		131	65 - 136
Dichlorobromomethane	25.0	22.4		ug/Kg		89	50 - 150
Ethylbenzene	25.0	26.8		ug/Kg		107	72 - 145

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 700-117645/4
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Methylene Chloride	25.0	28.8		ug/Kg		115	58 - 145
o-Xylene	25.0	25.7		ug/Kg		103	50 - 150
Trichloroethene	25.0	28.3		ug/Kg		113	68 - 138
Toluene	25.0	27.0		ug/Kg		108	66 - 141
trans-1,3-Dichloropropene	25.0	21.1		ug/Kg		85	56 - 140
trans-1,2-Dichloroethene	25.0	32.5		ug/Kg		130	61 - 149
cis-1,3-Dichloropropene	25.0	23.4		ug/Kg		93	50 - 150
m-Xylene & p-Xylene	50.0	45.5		ug/Kg		91	50 - 150
Tetrachloroethene	25.0	30.1		ug/Kg		120	61 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*119*		*30 - 140*
4-Bromofluorobenzene	*99*		*30 - 126*
Toluene-d8 (Surr)	*96*		*42 - 130*

Lab Sample ID: LCSD 700-117645/5
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	21.7		ug/Kg		87	38 - 154	4	28
1,1,1-Trichloroethane	25.0	25.6		ug/Kg		103	64 - 148	1	54
1,1,2-Trichloroethane	25.0	24.0		ug/Kg		96	50 - 143	3	27
1,1-Dichloroethane	25.0	30.7		ug/Kg		123	56 - 148	5	38
1,1-Dichloroethene	25.0	32.2		ug/Kg		129	48 - 154	6	46
1,2-Dichloroethane	25.0	20.4		ug/Kg		81	58 - 147	5	25
1,2-Dichlorobenzene	25.0	24.7		ug/Kg		99	64 - 146	7	28
1,3-Dichlorobenzene	25.0	24.2		ug/Kg		97	64 - 135	7	34
1,4-Dichlorobenzene	25.0	24.6		ug/Kg		98	49 - 139	7	36
cis-1,2-Dichloroethene	25.0	22.9		ug/Kg		91	50 - 150	2	37
1,2-Dichloropropane	25.0	23.9		ug/Kg		96	63 - 134	3	27
Benzene	25.0	25.8		ug/Kg		103	69 - 137	0	42
Bromoform	25.0	22.7		ug/Kg		91	42 - 144	1	24
Carbon tetrachloride	25.0	24.6		ug/Kg		99	50 - 150	2	59
Chlorobenzene	25.0	26.8		ug/Kg		107	70 - 138	7	34
Chlorodibromomethane	25.0	23.4		ug/Kg		94	50 - 137	2	22
Chloroform	25.0	31.4		ug/Kg		126	65 - 136	4	38
Dichlorobromomethane	25.0	22.1		ug/Kg		88	50 - 150	1	33
Ethylbenzene	25.0	24.7		ug/Kg		99	72 - 145	8	44
Methylene Chloride	25.0	23.9		ug/Kg		96	58 - 145	19	32
o-Xylene	25.0	23.0		ug/Kg		92	50 - 150	11	32
Trichloroethene	25.0	27.3		ug/Kg		109	68 - 138	4	34
Toluene	25.0	25.8		ug/Kg		103	66 - 141	4	32
trans-1,3-Dichloropropene	25.0	21.0		ug/Kg		84	56 - 140	1	50
trans-1,2-Dichloroethene	25.0	30.2		ug/Kg		121	61 - 149	7	56
cis-1,3-Dichloropropene	25.0	22.7		ug/Kg		91	50 - 150	3	30
m-Xylene & p-Xylene	50.0	42.2		ug/Kg		84	50 - 150	8	43
Tetrachloroethene	25.0	28.6		ug/Kg		114	61 - 141	5	44

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 700-117645/5
Matrix: Solid
Analysis Batch: 117645

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Dibromofluoromethane	*113*		*30 - 140*
4-Bromofluorobenzene	*96*		*30 - 126*
Toluene-d8 (Surr)	*97*		*42 - 130*

Lab Sample ID: MB 700-117663/6
Matrix: Solid
Analysis Batch: 117663

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Acetone	<50		50		ug/Kg			05/31/12 10:40	1
Benzene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Bromoform	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Bromomethane	<10		10		ug/Kg			05/31/12 10:40	1
Carbon disulfide	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Chlorobenzene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Chlorodibromomethane	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Chloroethane	<10		10		ug/Kg			05/31/12 10:40	1
Chloromethane	<10		10		ug/Kg			05/31/12 10:40	1
Chloroform	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Dichlorobromomethane	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Ethylbenzene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
2-Hexanone	<25		25		ug/Kg			05/31/12 10:40	1
Methylene Chloride	<5.0		5.0		ug/Kg			05/31/12 10:40	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg			05/31/12 10:40	1
2-Butanone (MEK)	<25		25		ug/Kg			05/31/12 10:40	1
o-Xylene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Xylenes, Total	<15		15		ug/Kg			05/31/12 10:40	1
Styrene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Trichloroethene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Toluene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
Vinyl chloride	<10		10		ug/Kg			05/31/12 10:40	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			05/31/12 10:40	1
m-Xylene & p-Xylene	<10		10		ug/Kg			05/31/12 10:40	1
Tetrachloroethene	<5.0		5.0		ug/Kg			05/31/12 10:40	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 700-117663/6
Matrix: Solid
Analysis Batch: 117663

Client Sample ID: Method Blank
Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane	100		30 - 140		05/31/12 10:40	1
4-Bromofluorobenzene	94		30 - 126		05/31/12 10:40	1
Toluene-d8 (Surr)	98		42 - 130		05/31/12 10:40	1

Lab Sample ID: LCS 700-117663/4
Matrix: Solid
Analysis Batch: 117663

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	22.1		ug/Kg		88	38 - 154
1,1,1-Trichloroethane	25.0	28.3		ug/Kg		113	64 - 148
1,1,2-Trichloroethane	25.0	23.8		ug/Kg		95	50 - 143
1,1-Dichloroethane	25.0	25.8		ug/Kg		103	56 - 148
1,1-Dichloroethene	25.0	29.4		ug/Kg		118	48 - 154
1,2-Dichloroethane	25.0	22.3		ug/Kg		89	58 - 147
1,2-Dichlorobenzene	25.0	23.6		ug/Kg		95	64 - 146
1,3-Dichlorobenzene	25.0	25.4		ug/Kg		102	64 - 135
1,4-Dichlorobenzene	25.0	25.7		ug/Kg		103	49 - 139
cis-1,2-Dichloroethene	25.0	19.7		ug/Kg		79	50 - 150
1,2-Dichloropropane	25.0	22.6		ug/Kg		90	63 - 134
Benzene	25.0	24.2		ug/Kg		97	69 - 137
Bromoform	25.0	22.3		ug/Kg		89	42 - 144
Carbon tetrachloride	25.0	29.6		ug/Kg		119	50 - 150
Chlorobenzene	25.0	26.2		ug/Kg		105	70 - 138
Chlorodibromomethane	25.0	22.6		ug/Kg		90	50 - 137
Chloroform	25.0	27.3		ug/Kg		109	65 - 136
Dichlorobromomethane	25.0	23.7		ug/Kg		95	50 - 150
Ethylbenzene	25.0	24.8		ug/Kg		99	72 - 145
Methylene Chloride	25.0	22.5		ug/Kg		90	58 - 145
o-Xylene	25.0	24.4		ug/Kg		98	50 - 150
Trichloroethene	25.0	27.3		ug/Kg		109	68 - 138
Toluene	25.0	24.9		ug/Kg		100	66 - 141
trans-1,3-Dichloropropene	25.0	21.0		ug/Kg		84	56 - 140
trans-1,2-Dichloroethene	25.0	25.8		ug/Kg		103	61 - 149
cis-1,3-Dichloropropene	25.0	21.7		ug/Kg		87	50 - 150
m-Xylene & p-Xylene	50.0	44.6		ug/Kg		89	50 - 150
Tetrachloroethene	25.0	27.1		ug/Kg		108	61 - 141

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane	104		30 - 140
4-Bromofluorobenzene	100		30 - 126
Toluene-d8 (Surr)	97		42 - 130

Lab Sample ID: LCSD 700-117663/5
Matrix: Solid
Analysis Batch: 117663

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	22.4		ug/Kg		90	38 - 154	1	28

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 700-117663/5
Matrix: Solid
Analysis Batch: 117663

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			25.0	29.9		ug/Kg		120	64 - 148	5	54
1,1,2-Trichloroethane			25.0	27.3		ug/Kg		109	50 - 143	14	27
1,1-Dichloroethane			25.0	30.0		ug/Kg		120	56 - 148	15	38
1,1-Dichloroethene			25.0	29.6		ug/Kg		119	48 - 154	1	46
1,2-Dichloroethane			25.0	24.3		ug/Kg		97	58 - 147	8	25
1,2-Dichlorobenzene			25.0	27.4		ug/Kg		110	64 - 146	15	28
1,3-Dichlorobenzene			25.0	28.1		ug/Kg		113	64 - 135	10	34
1,4-Dichlorobenzene			25.0	28.9		ug/Kg		115	49 - 139	11	36
cis-1,2-Dichloroethene			25.0	21.9		ug/Kg		88	50 - 150	11	37
1,2-Dichloropropane			25.0	26.0		ug/Kg		104	63 - 134	14	27
Benzene			25.0	26.9		ug/Kg		108	69 - 137	11	42
Bromoform			25.0	23.8		ug/Kg		95	42 - 144	7	24
Carbon tetrachloride			25.0	30.3		ug/Kg		121	50 - 150	2	59
Chlorobenzene			25.0	28.3		ug/Kg		113	70 - 138	8	34
Chlorodibromomethane			25.0	24.8		ug/Kg		99	50 - 137	9	22
Chloroform			25.0	29.6		ug/Kg		118	65 - 136	8	38
Dichlorobromomethane			25.0	25.9		ug/Kg		104	50 - 150	9	33
Ethylbenzene			25.0	26.7		ug/Kg		107	72 - 145	7	44
Methylene Chloride			25.0	25.5		ug/Kg		102	58 - 145	12	32
o-Xylene			25.0	25.3		ug/Kg		101	50 - 150	4	32
Trichloroethene			25.0	29.6		ug/Kg		119	68 - 138	8	34
Toluene			25.0	26.9		ug/Kg		108	66 - 141	8	32
trans-1,3-Dichloropropene			25.0	22.9		ug/Kg		92	56 - 140	9	50
trans-1,2-Dichloroethene			25.0	28.9		ug/Kg		116	61 - 149	12	56
cis-1,3-Dichloropropene			25.0	24.0		ug/Kg		96	50 - 150	10	30
m-Xylene & p-Xylene			50.0	47.3		ug/Kg		95	50 - 150	6	43
Tetrachloroethene			25.0	30.3		ug/Kg		121	61 - 141	11	44

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane	*102*		*30 - 140*
4-Bromofluorobenzene	*100*		*30 - 126*
Toluene-d8 (Surr)	*100*		*42 - 130*

Lab Sample ID: MB 700-117685/13
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,1,1-Trichloroethane	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,1,2-Trichloroethane	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,1-Dichloroethane	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,1-Dichloroethene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,2-Dichloroethane	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,2-Dichlorobenzene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,3-Dichlorobenzene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,4-Dichlorobenzene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
1,2-Dichloropropane	<5.0		5.0		ug/Kg			06/01/12 19:48	1

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 700-117685/13
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/Kg			06/01/12 19:48	1
Benzene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Bromoform	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Bromomethane	<10		10		ug/Kg			06/01/12 19:48	1
Carbon disulfide	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Carbon tetrachloride	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Chlorobenzene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Chlorodibromomethane	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Chloroethane	<10		10		ug/Kg			06/01/12 19:48	1
Chloromethane	<10		10		ug/Kg			06/01/12 19:48	1
Chloroform	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Dichlorobromomethane	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Ethylbenzene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
2-Hexanone	<25		25		ug/Kg			06/01/12 19:48	1
Methylene Chloride	<5.0		5.0		ug/Kg			06/01/12 19:48	1
4-Methyl-2-pentanone (MIBK)	<25		25		ug/Kg			06/01/12 19:48	1
2-Butanone (MEK)	<25		25		ug/Kg			06/01/12 19:48	1
o-Xylene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Xylenes, Total	<15		15		ug/Kg			06/01/12 19:48	1
Styrene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Trichloroethene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Toluene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
Vinyl chloride	<10		10		ug/Kg			06/01/12 19:48	1
trans-1,3-Dichloropropene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
trans-1,2-Dichloroethene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
cis-1,3-Dichloropropene	<5.0		5.0		ug/Kg			06/01/12 19:48	1
m-Xylene & p-Xylene	<10		10		ug/Kg			06/01/12 19:48	1
Tetrachloroethene	<5.0		5.0		ug/Kg			06/01/12 19:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane	*95*		*30 - 140*		*06/01/12 19:48*	*1*
4-Bromofluorobenzene	*94*		*30 - 126*		*06/01/12 19:48*	*1*
Toluene-d8 (Surr)	*99*		*42 - 130*		*06/01/12 19:48*	*1*

Lab Sample ID: LCS 700-117685/11
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	25.0	20.6		ug/Kg		82	38 - 154
1,1,1-Trichloroethane	25.0	22.5		ug/Kg		90	64 - 148
1,1,2-Trichloroethane	25.0	21.3		ug/Kg		85	50 - 143
1,1-Dichloroethane	25.0	24.7		ug/Kg		99	56 - 148
1,1-Dichloroethene	25.0	23.9		ug/Kg		96	48 - 154
1,2-Dichloroethane	25.0	21.3		ug/Kg		85	58 - 147
1,2-Dichlorobenzene	25.0	22.8		ug/Kg		91	64 - 146
1,3-Dichlorobenzene	25.0	23.1		ug/Kg		92	64 - 135
1,4-Dichlorobenzene	25.0	23.6		ug/Kg		95	49 - 139
cis-1,2-Dichloroethene	25.0	18.2		ug/Kg		73	50 - 150

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 700-117685/11
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	22.1		ug/Kg		88	63 - 134
Benzene	25.0	23.3		ug/Kg		93	69 - 137
Bromoform	25.0	22.0		ug/Kg		88	42 - 144
Carbon tetrachloride	25.0	22.5		ug/Kg		90	50 - 150
Chlorobenzene	25.0	24.0		ug/Kg		96	70 - 138
Chlorodibromomethane	25.0	21.3		ug/Kg		85	50 - 137
Chloroform	25.0	24.3		ug/Kg		97	65 - 136
Dichlorobromomethane	25.0	21.8		ug/Kg		87	50 - 150
Ethylbenzene	25.0	22.6		ug/Kg		90	72 - 145
Methylene Chloride	25.0	24.5		ug/Kg		98	58 - 145
o-Xylene	25.0	22.0		ug/Kg		88	50 - 150
Trichloroethene	25.0	23.3		ug/Kg		93	68 - 138
Toluene	25.0	22.8		ug/Kg		91	66 - 141
trans-1,3-Dichloropropene	25.0	19.5		ug/Kg		78	56 - 140
trans-1,2-Dichloroethene	25.0	24.2		ug/Kg		97	61 - 149
cis-1,3-Dichloropropene	25.0	21.1		ug/Kg		85	50 - 150
m-Xylene & p-Xylene	50.0	42.7		ug/Kg		85	50 - 150
Tetrachloroethene	25.0	24.8		ug/Kg		99	61 - 141

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane	*100*		*30 - 140*
4-Bromofluorobenzene	*94*		*30 - 126*
Toluene-d8 (Surr)	*98*		*42 - 130*

Lab Sample ID: LCSD 700-117685/12
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	25.0	22.0		ug/Kg		88	38 - 154	7	28
1,1,1-Trichloroethane	25.0	23.3		ug/Kg		93	64 - 148	4	54
1,1,2-Trichloroethane	25.0	22.9		ug/Kg		92	50 - 143	7	27
1,1-Dichloroethane	25.0	23.4		ug/Kg		93	56 - 148	6	38
1,1-Dichloroethene	25.0	23.7		ug/Kg		95	48 - 154	1	46
1,2-Dichloroethane	25.0	22.1		ug/Kg		88	58 - 147	4	25
1,2-Dichlorobenzene	25.0	23.6		ug/Kg		94	64 - 146	3	28
1,3-Dichlorobenzene	25.0	23.4		ug/Kg		93	64 - 135	1	34
1,4-Dichlorobenzene	25.0	25.0		ug/Kg		100	49 - 139	6	36
cis-1,2-Dichloroethene	25.0	17.9		ug/Kg		72	50 - 150	1	37
1,2-Dichloropropane	25.0	23.7		ug/Kg		95	63 - 134	7	27
Benzene	25.0	23.7		ug/Kg		95	69 - 137	2	42
Bromoform	25.0	22.5		ug/Kg		90	42 - 144	2	24
Carbon tetrachloride	25.0	22.9		ug/Kg		92	50 - 150	2	59
Chlorobenzene	25.0	24.4		ug/Kg		97	70 - 138	1	34
Chlorodibromomethane	25.0	21.8		ug/Kg		87	50 - 137	2	22
Chloroform	25.0	24.2		ug/Kg		97	65 - 136	0	38
Dichlorobromomethane	25.0	22.7		ug/Kg		91	50 - 150	4	33
Ethylbenzene	25.0	23.6		ug/Kg		94	72 - 145	4	44
Methylene Chloride	25.0	23.4		ug/Kg		93	58 - 145	5	32

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 700-117685/12
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
o-Xylene			25.0	22.5		ug/Kg		90	50 - 150	2	32
Trichloroethene			25.0	23.1		ug/Kg		92	68 - 138	1	34
Toluene			25.0	23.1		ug/Kg		92	66 - 141	1	32
trans-1,3-Dichloropropene			25.0	21.0		ug/Kg		84	56 - 140	7	50
trans-1,2-Dichloroethene			25.0	23.6		ug/Kg		95	61 - 149	2	56
cis-1,3-Dichloropropene			25.0	21.1		ug/Kg		84	50 - 150	0	30
m-Xylene & p-Xylene			50.0	43.8		ug/Kg		88	50 - 150	3	43
Tetrachloroethene			25.0	26.5		ug/Kg		106	61 - 141	7	44

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane	*101*		*30 - 140*
4-Bromofluorobenzene	*95*		*30 - 126*
Toluene-d8 (Surr)	*98*		*42 - 130*

Lab Sample ID: 700-68015-11 MS
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: B-14 0'-3'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2,2-Tetrachloroethane	<6.0		29.8	17.1		ug/Kg	☼	57	38 - 154
1,1,1-Trichloroethane	<6.0		29.8	29.0		ug/Kg	☼	97	64 - 130
1,1,2-Trichloroethane	<6.0		29.8	18.6		ug/Kg	☼	62	50 - 143
1,1-Dichloroethane	<6.0		29.8	25.8		ug/Kg	☼	87	56 - 148
1,1-Dichloroethene	<6.0		29.8	24.9		ug/Kg	☼	83	48 - 154
1,2-Dichloroethane	<6.0		29.8	20.8		ug/Kg	☼	70	58 - 147
1,2-Dichlorobenzene	<6.0		29.8	17.8	F	ug/Kg	☼	60	64 - 135
1,3-Dichlorobenzene	<6.0		29.8	21.3		ug/Kg	☼	72	64 - 145
1,4-Dichlorobenzene	<6.0		29.8	18.2		ug/Kg	☼	61	49 - 149
cis-1,2-Dichloroethene	<6.0		29.8	28.3		ug/Kg	☼	95	66 - 128
1,2-Dichloropropane	<6.0		29.8	24.1		ug/Kg	☼	81	63 - 134
Benzene	<6.0		29.8	25.0		ug/Kg	☼	84	69 - 137
Bromoform	<6.0		29.8	15.3		ug/Kg	☼	51	42 - 144
Carbon tetrachloride	<6.0		29.8	29.5		ug/Kg	☼	99	60 - 147
Chlorobenzene	<6.0		29.8	21.3		ug/Kg	☼	71	70 - 138
Chlorodibromomethane	<6.0		29.8	21.0		ug/Kg	☼	70	53 - 137
Chloroform	<6.0		29.8	25.3		ug/Kg	☼	85	65 - 135
Dichlorobromomethane	<6.0		29.8	21.7		ug/Kg	☼	73	55 - 139
Ethylbenzene	<6.0		29.8	24.9		ug/Kg	☼	83	72 - 123
Methylene Chloride	<6.0		29.8	24.0		ug/Kg	☼	71	58 - 149
o-Xylene	<6.0		29.8	22.6		ug/Kg	☼	76	50 - 150
Trichloroethene	<6.0		29.8	25.6		ug/Kg	☼	86	68 - 138
Toluene	<6.0		29.8	22.0		ug/Kg	☼	74	66 - 141
trans-1,3-Dichloropropene	<6.0		29.8	9.15	F	ug/Kg	☼	31	56 - 140
trans-1,2-Dichloroethene	<6.0		29.8	21.8		ug/Kg	☼	73	73 - 146
cis-1,3-Dichloropropene	<6.0		29.8	12.6	F	ug/Kg	☼	42	58 - 140
m-Xylene & p-Xylene	<12		59.7	43.6		ug/Kg	☼	73	50 - 150
Tetrachloroethene	7.7		29.8	38.9		ug/Kg	☼	105	61 - 141

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 700-68015-11 MS
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: B-14 0'-3'
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane	*99*		*30 - 140*
4-Bromofluorobenzene	*69*		*30 - 126*
Toluene-d8 (Surr)	*96*		*42 - 130*

Lab Sample ID: 700-68015-11 MSD
Matrix: Solid
Analysis Batch: 117685

Client Sample ID: B-14 0'-3'
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2,2-Tetrachloroethane	<6.0		29.5	9.52	F	ug/Kg	☼	32	38 - 154	57	28
1,1,1-Trichloroethane	<6.0		29.5	20.6		ug/Kg	☼	70	64 - 130	34	54
1,1,2-Trichloroethane	<6.0		29.5	13.3	F	ug/Kg	☼	45	50 - 143	33	27
1,1-Dichloroethane	<6.0		29.5	18.2		ug/Kg	☼	62	56 - 148	35	38
1,1-Dichloroethene	<6.0		29.5	15.8		ug/Kg	☼	54	48 - 154	44	46
1,2-Dichloroethane	<6.0		29.5	14.2	F	ug/Kg	☼	48	58 - 147	38	25
1,2-Dichlorobenzene	<6.0		29.5	<5.9	F	ug/Kg	☼	19	64 - 135	103	28
1,3-Dichlorobenzene	<6.0		29.5	6.93	F	ug/Kg	☼	24	64 - 145	102	34
1,4-Dichlorobenzene	<6.0		29.5	6.39	F	ug/Kg	☼	22	49 - 149	96	36
cis-1,2-Dichloroethene	<6.0		29.5	16.7	F	ug/Kg	☼	57	66 - 128	51	37
1,2-Dichloropropane	<6.0		29.5	16.1	F	ug/Kg	☼	55	63 - 134	40	27
Benzene	<6.0		29.5	16.8	F	ug/Kg	☼	57	69 - 137	39	42
Bromoform	<6.0		29.5	9.55	F	ug/Kg	☼	32	42 - 144	46	24
Carbon tetrachloride	<6.0		29.5	19.2		ug/Kg	☼	65	60 - 147	42	59
Chlorobenzene	<6.0		29.5	11.1	F	ug/Kg	☼	38	70 - 138	63	34
Chlorodibromomethane	<6.0		29.5	11.4	F	ug/Kg	☼	39	53 - 137	59	22
Chloroform	<6.0		29.5	17.1	F	ug/Kg	☼	58	65 - 135	39	38
Dichlorobromomethane	<6.0		29.5	14.4	F	ug/Kg	☼	49	55 - 139	41	33
Ethylbenzene	<6.0		29.5	13.1	F	ug/Kg	☼	44	72 - 123	62	44
Methylene Chloride	<6.0		29.5	15.5	F	ug/Kg	☼	44	58 - 149	43	32
o-Xylene	<6.0		29.5	12.1	F	ug/Kg	☼	41	50 - 150	61	32
Trichloroethene	<6.0		29.5	16.1	F	ug/Kg	☼	55	68 - 138	45	34
Toluene	<6.0		29.5	14.5	F	ug/Kg	☼	49	66 - 141	41	32
trans-1,3-Dichloropropene	<6.0		29.5	6.75	F	ug/Kg	☼	23	56 - 140	30	50
trans-1,2-Dichloroethene	<6.0		29.5	15.0	F	ug/Kg	☼	51	73 - 146	37	56
cis-1,3-Dichloropropene	<6.0		29.5	8.61	F	ug/Kg	☼	29	58 - 140	37	30
m-Xylene & p-Xylene	<12		59.0	23.1	F	ug/Kg	☼	39	50 - 150	62	43
Tetrachloroethene	7.7		29.5	17.8	F	ug/Kg	☼	34	61 - 141	75	44

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane	*95*		*30 - 140*
4-Bromofluorobenzene	*93*		*30 - 126*
Toluene-d8 (Surr)	*101*		*42 - 130*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 700-117550/1-A
Matrix: Solid
Analysis Batch: 117618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
1,2-Dichlorobenzene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
1,3-Dichlorobenzene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
1,4-Dichlorobenzene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
1-Methylnaphthalene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2,4,5-Trichlorophenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2,4,6-Trichlorophenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2,4-Dichlorophenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2,4-Dimethylphenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2,4-Dinitrophenol	<1700		1700		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2,4-Dinitrotoluene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2,6-Dinitrotoluene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2-Chlorophenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2-Methylnaphthalene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2-Methylphenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2-Nitroaniline	<1700		1700		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
2-Nitrophenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
3 & 4 Methylphenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
3,3'-Dichlorobenzidine	<660		660		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
4,6-Dinitro-2-methylphenol	<1700		1700		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
4-Bromophenyl phenyl ether	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
4-Chloro-3-methylphenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
4-Chloroaniline	<660		660		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
4-Chlorophenyl phenyl ether	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
4-Nitroaniline	<1700		1700		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
4-Nitrophenol	<1700		1700		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Acenaphthene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Acenaphthylene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Anthracene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Benzidine	<2700		2700		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Benzo[a]anthracene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Benzo[a]pyrene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Benzo[b]fluoranthene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Benzo[g,h,i]perylene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Benzo[k]fluoranthene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Bis(2-chloroethoxy)methane	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Bis(2-chloroethyl)ether	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Bis(2-ethylhexyl) phthalate	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Butyl benzyl phthalate	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Chrysene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Di-n-butyl phthalate	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Di-n-octyl phthalate	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Dibenz(a,h)anthracene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Dibenzofuran	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Diethyl phthalate	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Dimethyl phthalate	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Dinoseb	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Fluoranthene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Fluorene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 700-117550/1-A
Matrix: Solid
Analysis Batch: 117618

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117550

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Hexachlorobutadiene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Hexachlorocyclopentadiene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Hexachloroethane	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Indeno[1,2,3-cd]pyrene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Isophorone	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
N-Nitrosodi-n-propylamine	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
N-Nitrosodiphenylamine	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Naphthalene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Nitrobenzene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Pentachlorophenol	<1700		1700		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Phenanthrene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Phenol	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Pyrene	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
Carbazole	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5
N-Nitrosodimethylamine	<330		330		ug/Kg		05/31/12 12:00	05/31/12 15:01	5

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*65*		*5.0 - 130*	*05/31/12 12:00*	*05/31/12 15:01*	*5*
2-Fluorobiphenyl	*71*		*31 - 130*	*05/31/12 12:00*	*05/31/12 15:01*	*5*
2-Fluorophenol (Surr)	*58*		*10 - 128*	*05/31/12 12:00*	*05/31/12 15:01*	*5*
Nitrobenzene-d5 (Surr)	*54*		*35 - 130*	*05/31/12 12:00*	*05/31/12 15:01*	*5*
Phenol-d5 (Surr)	*71*		*29 - 130*	*05/31/12 12:00*	*05/31/12 15:01*	*5*
Terphenyl-d14 (Surr)	*85*		*37 - 149*	*05/31/12 12:00*	*05/31/12 15:01*	*5*

Lab Sample ID: LCS 700-117550/2-A
Matrix: Solid
Analysis Batch: 117618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117550

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	1670	818		ug/Kg		49	34 - 130
1,4-Dichlorobenzene	1670	671		ug/Kg		40	30 - 130
1-Methylnaphthalene	667	433		ug/Kg		65	30 - 140
2,4-Dinitrotoluene	1670	1190		ug/Kg		71	26 - 130
2-Chlorophenol	3330	1520		ug/Kg		46	36 - 130
2-Nitrophenol	3340	1480		ug/Kg		44	38 - 130
Acenaphthene	2330	1510		ug/Kg		65	34 - 134
Acenaphthylene	667	520		ug/Kg		78	44 - 140
Anthracene	667	602		ug/Kg		90	44 - 126
Benzo[a]anthracene	667	540		ug/Kg		81	39 - 134
Benzo[a]pyrene	667	584		ug/Kg		88	30 - 132
Benzo[b]fluoranthene	667	608		ug/Kg		91	34 - 138
Benzo[g,h,i]perylene	667	559		ug/Kg		84	32 - 133
Benzo[k]fluoranthene	667	404		ug/Kg		61	30 - 147
Bis(2-chloroethoxy)methane	3340	1830		ug/Kg		55	43 - 130
Bis(2-chloroethyl)ether	3340	1280		ug/Kg		38	33 - 130
Chrysene	667	600		ug/Kg		90	39 - 138
Dibenz(a,h)anthracene	667	577		ug/Kg		87	32 - 134
Fluoranthene	667	656		ug/Kg		98	39 - 139

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 700-117550/2-A
Matrix: Solid
Analysis Batch: 117618

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117550

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluorene			667	499		ug/Kg		75	41 - 130		
Indeno[1,2,3-cd]pyrene			667	586		ug/Kg		88	26 - 140		
N-Nitrosodi-n-propylamine			1670	779		ug/Kg		47	28 - 130		
Naphthalene			667	390		ug/Kg		58	26 - 140		
Pentachlorophenol			3330	1990		ug/Kg		60	34 - 133		
Phenanthrene			667	563		ug/Kg		84	45 - 129		
Phenol			3330	1510		ug/Kg		45	32 - 130		
Pyrene			2330	1530		ug/Kg		66	32 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*83*		*5.0 - 130*
2-Fluorobiphenyl	*66*		*31 - 130*
2-Fluorophenol (Surr)	*51*		*10 - 128*
Nitrobenzene-d5 (Surr)	*54*		*35 - 130*
Phenol-d5 (Surr)	*61*		*29 - 130*
Terphenyl-d14 (Surr)	*72*		*37 - 149*

Lab Sample ID: LCSD 700-117550/3-A
Matrix: Solid
Analysis Batch: 117618

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117550

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene			1670	851		ug/Kg		51	34 - 130	4	22
1,4-Dichlorobenzene			1670	728		ug/Kg		44	30 - 130	8	31
1-Methylnaphthalene			667	425		ug/Kg		64	30 - 140	2	50
2,4-Dinitrotoluene			1670	1110		ug/Kg		66	26 - 130	7	37
2-Chlorophenol			3330	1620		ug/Kg		49	36 - 130	6	38
2-Nitrophenol			3340	1610		ug/Kg		48	38 - 130	8	50
Acenaphthene			2330	1520		ug/Kg		65	34 - 134	1	49
Acenaphthylene			667	524		ug/Kg		79	44 - 140	1	48
Anthracene			667	608		ug/Kg		91	44 - 126	1	27
Benzo[a]anthracene			667	556		ug/Kg		83	39 - 134	3	43
Benzo[a]pyrene			667	541		ug/Kg		81	30 - 132	8	55
Benzo[b]fluoranthene			667	522		ug/Kg		78	34 - 138	15	51
Benzo[g,h,i]perylene			667	512		ug/Kg		77	32 - 133	9	50
Benzo[k]fluoranthene			667	409		ug/Kg		61	30 - 147	1	48
Bis(2-chloroethoxy)methane			3340	1890		ug/Kg		57	43 - 130	4	52
Bis(2-chloroethyl)ether			3340	1380		ug/Kg		41	33 - 130	7	50
Chrysene			667	606		ug/Kg		91	39 - 138	1	41
Dibenz(a,h)anthracene			667	533		ug/Kg		80	32 - 134	8	50
Fluoranthene			667	586		ug/Kg		88	39 - 139	11	50
Fluorene			667	507		ug/Kg		76	41 - 130	2	50
Indeno[1,2,3-cd]pyrene			667	560		ug/Kg		84	26 - 140	5	50
N-Nitrosodi-n-propylamine			1670	816		ug/Kg		49	28 - 130	5	37
Naphthalene			667	401		ug/Kg		60	26 - 140	3	34
Pentachlorophenol			3330	1940		ug/Kg		58	34 - 133	2	55
Phenanthrene			667	564		ug/Kg		85	45 - 129	0	30
Phenol			3330	1570		ug/Kg		47	32 - 130	4	39
Pyrene			2330	1780		ug/Kg		76	32 - 130	15	42

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 700-117550/3-A
Matrix: Solid
Analysis Batch: 117618

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117550

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*76*		*5.0 - 130*
2-Fluorobiphenyl	*65*		*31 - 130*
2-Fluorophenol (Surr)	*55*		*10 - 128*
Nitrobenzene-d5 (Surr)	*56*		*35 - 130*
Phenol-d5 (Surr)	*64*		*29 - 130*
Terphenyl-d14 (Surr)	*81*		*37 - 149*

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography

Lab Sample ID: MB 700-117549/1-A
Matrix: Solid
Analysis Batch: 117631

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117549

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<33		33		ug/Kg		05/31/12 09:00	05/31/12 11:39	5
PCB-1221	<67		67		ug/Kg		05/31/12 09:00	05/31/12 11:39	5
PCB-1232	<33		33		ug/Kg		05/31/12 09:00	05/31/12 11:39	5
PCB-1242	<33		33		ug/Kg		05/31/12 09:00	05/31/12 11:39	5
PCB-1248	<33		33		ug/Kg		05/31/12 09:00	05/31/12 11:39	5
PCB-1254	<33		33		ug/Kg		05/31/12 09:00	05/31/12 11:39	5
PCB-1260	<33		33		ug/Kg		05/31/12 09:00	05/31/12 11:39	5

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*33*		*30 - 150*	*05/31/12 09:00*	*05/31/12 11:39*	*5*
Tetrachloro-m-xylene	*84*		*30 - 150*	*05/31/12 09:00*	*05/31/12 11:39*	*5*

Lab Sample ID: LCS 700-117549/2-A
Matrix: Solid
Analysis Batch: 117631

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117549

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
PCB-1016			333	345		ug/Kg		104	33 - 130		
PCB-1260			333	320		ug/Kg		96	39 - 134		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*50*		*30 - 150*
Tetrachloro-m-xylene	*84*		*30 - 150*

Lab Sample ID: LCSD 700-117549/3-A
Matrix: Solid
Analysis Batch: 117631

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117549

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016			333	352		ug/Kg		105	33 - 130	2	44
PCB-1260			333	332		ug/Kg		100	39 - 134	4	30

Method: 8081B/8082A - Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography (Continued)

Lab Sample ID: LCSD 700-117549/3-A
Matrix: Solid
Analysis Batch: 117631

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117549

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
DCB Decachlorobiphenyl	47		30 - 150
Tetrachloro-m-xylene	87		30 - 150

Lab Sample ID: 700-68015-13 MS
Matrix: Solid
Analysis Batch: 117631

Client Sample ID: B-15 0'-3'
Prep Type: Total/NA
Prep Batch: 117549

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	<38		382	258		ug/Kg	☼	67	33 - 130
PCB-1260	62		382	437		ug/Kg	☼	98	39 - 134

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl	45		30 - 150
Tetrachloro-m-xylene	57		30 - 150

Lab Sample ID: 700-68015-13 MSD
Matrix: Solid
Analysis Batch: 117631

Client Sample ID: B-15 0'-3'
Prep Type: Total/NA
Prep Batch: 117549

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
PCB-1016	<38		382	262		ug/Kg	☼	68	33 - 130	2	44
PCB-1260	62		382	303	F	ug/Kg	☼	63	39 - 134	36	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl	46		30 - 150
Tetrachloro-m-xylene	55		30 - 150

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 700-117526/1-A
Matrix: Solid
Analysis Batch: 117602

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 117526

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<1.0		1.0		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Arsenic	<1.5		1.5		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Beryllium	<0.40		0.40		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Cadmium	<0.50		0.50		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Chromium	<1.0		1.0		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Copper	<2.0		2.0		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Lead	<0.75		0.75		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Nickel	<4.0		4.0		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Selenium	<1.5		1.5		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Antimony	<2.0		2.0		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Thallium	<1.5		1.5		mg/Kg		05/31/12 09:00	05/31/12 18:39	1
Zinc	<2.0		2.0		mg/Kg		05/31/12 09:00	05/31/12 18:39	1

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: LCS 700-117526/2-A
Matrix: Solid
Analysis Batch: 117602

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 117526

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	100	93.1		mg/Kg		93	80 - 120
Arsenic	100	99.9		mg/Kg		100	80 - 120
Beryllium	100	101		mg/Kg		101	80 - 120
Cadmium	100	105		mg/Kg		105	80 - 120
Chromium	100	108		mg/Kg		108	80 - 120
Copper	100	103		mg/Kg		103	80 - 120
Lead	100	101		mg/Kg		101	80 - 120
Nickel	100	103		mg/Kg		103	80 - 120
Selenium	100	94.0		mg/Kg		94	80 - 120
Antimony	100	95.7		mg/Kg		96	80 - 120
Thallium	100	98.1		mg/Kg		98	80 - 120
Zinc	100	105		mg/Kg		105	80 - 120

Lab Sample ID: LCSD 700-117526/3-A
Matrix: Solid
Analysis Batch: 117602

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 117526

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	100	94.4		mg/Kg		94	80 - 120	1	20
Arsenic	100	101		mg/Kg		101	80 - 120	1	20
Beryllium	100	101		mg/Kg		101	80 - 120	0	20
Cadmium	100	106		mg/Kg		106	80 - 120	1	20
Chromium	100	109		mg/Kg		109	80 - 120	1	20
Copper	100	104		mg/Kg		104	80 - 120	1	20
Lead	100	102		mg/Kg		102	80 - 120	1	20
Nickel	100	104		mg/Kg		104	80 - 120	1	20
Selenium	100	94.8		mg/Kg		95	80 - 120	1	20
Antimony	100	96.7		mg/Kg		97	80 - 120	1	20
Thallium	100	99.1		mg/Kg		99	80 - 120	1	20
Zinc	100	106		mg/Kg		106	80 - 120	1	20

Lab Sample ID: 700-68015-1 MS
Matrix: Solid
Analysis Batch: 117602

Client Sample ID: B-9 0'-3'
Prep Type: Total/NA
Prep Batch: 117526

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	<0.99		97.0	86.8		mg/Kg	☼	90	75 - 125
Arsenic	9.9		97.0	108		mg/Kg	☼	101	75 - 125
Beryllium	<0.39		97.0	98.0		mg/Kg	☼	101	75 - 125
Cadmium	<0.49		97.0	101		mg/Kg	☼	104	75 - 125
Chromium	11		97.0	113		mg/Kg	☼	105	75 - 125
Copper	38		97.0	140		mg/Kg	☼	106	75 - 125
Lead	57		97.0	158		mg/Kg	☼	105	75 - 125
Nickel	4.9		97.0	101		mg/Kg	☼	99	75 - 125
Selenium	<1.5		97.0	89.9		mg/Kg	☼	93	75 - 125
Antimony	2.1		97.0	68.9	F	mg/Kg	☼	69	75 - 125
Thallium	<1.5		97.0	89.6		mg/Kg	☼	92	75 - 125
Zinc	70		97.0	164		mg/Kg	☼	97	75 - 125

Method: 6010C - Metals (ICP) (Continued)

Lab Sample ID: 700-68015-1 MSD — **Client Sample ID: B-9 0'-3'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117602 — **Prep Batch: 117526**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Silver	<0.99		95.3	85.9		mg/Kg	☼	90	75 - 125	1	20
Arsenic	9.9		95.3	102		mg/Kg	☼	96	75 - 125	6	20
Beryllium	<0.39		95.3	95.3		mg/Kg	☼	100	75 - 125	3	20
Cadmium	<0.49		95.3	98.9		mg/Kg	☼	103	75 - 125	2	20
Chromium	11		95.3	111		mg/Kg	☼	104	75 - 125	2	20
Copper	38		95.3	131		mg/Kg	☼	98	75 - 125	7	20
Lead	57		95.3	141		mg/Kg	☼	89	75 - 125	11	20
Nickel	4.9		95.3	97.5		mg/Kg	☼	97	75 - 125	3	20
Selenium	<1.5		95.3	87.4		mg/Kg	☼	92	75 - 125	3	20
Antimony	2.1		95.3	62.7	F	mg/Kg	☼	64	75 - 125	9	20
Thallium	<1.5		95.3	87.1		mg/Kg	☼	91	75 - 125	3	20
Zinc	70		95.3	153		mg/Kg	☼	87	75 - 125	7	20

Method: 7471B - Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)

Lab Sample ID: MB 700-117563/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117651 — **Prep Batch: 117563**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.014		0.014		mg/Kg		05/31/12 10:25	06/01/12 12:23	1

Lab Sample ID: LCS 700-117563/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117651 — **Prep Batch: 117563**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.267	0.251		mg/Kg		94	80 - 120

Lab Sample ID: LCSD 700-117563/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 117651 — **Prep Batch: 117563**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.267	0.234		mg/Kg		88	80 - 120	7	20

Client Sample ID: B-9 0'-3'

Lab Sample ID: 700-68015-1

Date Collected: 05/30/12 08:01

Matrix: Solid

Date Received: 05/30/12 11:56

Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	117663	05/31/12 14:55	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 19:56	LNP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 13:13	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 18:48	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:34	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-9 3'-6'

Lab Sample ID: 700-68015-2

Date Collected: 05/30/12 08:09

Matrix: Solid

Date Received: 05/30/12 11:56

Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	117663	05/31/12 15:27	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 20:24	LNP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 13:44	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:05	JAW	TAL MOB
Total/NA	Prep	3050B	RADL		117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C	RADL	5	117644	06/01/12 10:56	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:36	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-10 0'-3'

Lab Sample ID: 700-68015-3

Date Collected: 05/30/12 08:21

Matrix: Solid

Date Received: 05/30/12 11:56

Percent Solids: 90.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117614	05/31/12 01:03	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 20:53	LNP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 14:15	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:08	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:38	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-10 3'-6'

Lab Sample ID: 700-68015-4

Date Collected: 05/30/12 08:26
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 70.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	117663	05/31/12 13:51	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 21:21	LNP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 14:46	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:21	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:40	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-11 0'-3'

Lab Sample ID: 700-68015-5

Date Collected: 05/30/12 08:43
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 92.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		50	117663	05/31/12 14:23	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 21:50	LNP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 15:18	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:24	JAW	TAL MOB
Total/NA	Prep	3050B	RADL		117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C	RADL	5	117644	06/01/12 10:59	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		5	117651	06/01/12 13:11	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-11 3'-6'

Lab Sample ID: 700-68015-6

Date Collected: 05/30/12 08:50
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 71.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117614	05/31/12 02:37	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 22:18	LNP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 15:49	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:28	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		2	117651	06/01/12 13:12	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-12 0'-3'

Lab Sample ID: 700-68015-7

Date Collected: 05/30/12 09:04
Date Received: 05/30/12 11:56

Matrix: Solid
Percent Solids: 88.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	06/01/12 01:59	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 22:47	LNP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 16:20	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:31	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:50	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-12 3'-6'

Lab Sample ID: 700-68015-8

Date Collected: 05/30/12 09:11
Date Received: 05/30/12 11:56

Matrix: Solid
Percent Solids: 77.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117614	05/31/12 03:09	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117639	05/31/12 23:15	LNP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 16:51	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:35	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:52	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-13 0'-3'

Lab Sample ID: 700-68015-9

Date Collected: 05/30/12 09:30
Date Received: 05/30/12 11:56

Matrix: Solid
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	06/01/12 02:31	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117618	05/31/12 21:46	VP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 17:23	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:38	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:54	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-13 3'-6'

Lab Sample ID: 700-68015-10
Date Collected: 05/30/12 09:37
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 75.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117645	06/01/12 01:28	JH	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117618	05/31/12 22:17	VP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 17:54	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:41	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:56	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-14 0'-3'

Lab Sample ID: 700-68015-11
Date Collected: 05/30/12 10:05
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117685	06/01/12 20:20	KBV	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117618	05/31/12 22:48	VP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 18:25	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:45	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 12:58	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-14 3'- 6'

Lab Sample ID: 700-68015-12
Date Collected: 05/30/12 10:11
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 62.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117685	06/01/12 20:52	KBV	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117618	05/31/12 23:19	VP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 18:56	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:48	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		5	117651	06/01/12 13:14	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Lab Chronicle

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Client Sample ID: B-15 0'-3'

Lab Sample ID: 700-68015-13

Date Collected: 05/30/12 10:30
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117685	06/01/12 21:23	KBV	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117618	05/31/12 23:50	VP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 19:28	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 19:51	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 13:03	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Client Sample ID: B-15 3'-5.5'

Lab Sample ID: 700-68015-14

Date Collected: 05/30/12 10:33
Matrix: Solid
Date Received: 05/30/12 11:56
Percent Solids: 78.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	117685	06/01/12 21:55	KBV	TAL MOB
Total/NA	Prep	3550C			117550	05/31/12 12:00	SDT	TAL MOB
Total/NA	Analysis	8270D		5	117618	06/01/12 00:22	VP	TAL MOB
Total/NA	Prep	3550C			117549	05/31/12 09:00	SDT	TAL MOB
Total/NA	Analysis	8081B/8082A		5	117631	05/31/12 19:59	LT	TAL MOB
Total/NA	Prep	3050B			117526	05/31/12 09:00	MC	TAL MOB
Total/NA	Analysis	6010C		1	117602	05/31/12 20:04	JAW	TAL MOB
Total/NA	Prep	7471B			117563	05/31/12 10:25	MC	TAL MOB
Total/NA	Analysis	7471B		1	117651	06/01/12 13:05	PNP	TAL MOB
Total/NA	Analysis	Moisture		1	117517	05/30/12 15:37	TKN	TAL MOB

Laboratory References:

TAL MOB = TestAmerica Mobile, 900 Lakeside Drive, Mobile, AL 36693, TEL (251)666-6633

Method Summary

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL MOB
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL MOB
8081B/8082A	Organochlorine Pesticides and Polychlorinated Biphenyls by Gas Chromatography	SW846	TAL MOB
6010C	Metals (ICP)	SW846	TAL MOB
7471B	Mercury in Solid or Semisolid Waste (Manual Cold Vapor Technique)	SW846	TAL MOB
Moisture	Percent Moisture	EPA	TAL MOB

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL MOB = TestAmerica Mobile, 900 Lakeside Drive, Mobile, AL 36693, TEL (251)666-6633

Sample Summary

Client: Thompson Engineering Inc
Project/Site: ALDOT- Bender Shipbuilding

TestAmerica Job ID: 700-68015-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
700-68015-1	B-9 0'-3'	Solid	05/30/12 08:01	05/30/12 11:56
700-68015-2	B-9 3'-6'	Solid	05/30/12 08:09	05/30/12 11:56
700-68015-3	B-10 0'-3'	Solid	05/30/12 08:21	05/30/12 11:56
700-68015-4	B-10 3'-6'	Solid	05/30/12 08:26	05/30/12 11:56
700-68015-5	B-11 0'-3'	Solid	05/30/12 08:43	05/30/12 11:56
700-68015-6	B-11 3'-6'	Solid	05/30/12 08:50	05/30/12 11:56
700-68015-7	B-12 0'-3'	Solid	05/30/12 09:04	05/30/12 11:56
700-68015-8	B-12 3'-6'	Solid	05/30/12 09:11	05/30/12 11:56
700-68015-9	B-13 0'-3'	Solid	05/30/12 09:30	05/30/12 11:56
700-68015-10	B-13 3'-6'	Solid	05/30/12 09:37	05/30/12 11:56
700-68015-11	B-14 0'-3'	Solid	05/30/12 10:05	05/30/12 11:56
700-68015-12	B-14 3'-6'	Solid	05/30/12 10:11	05/30/12 11:56
700-68015-13	B-15 0'-3'	Solid	05/30/12 10:30	05/30/12 11:56
700-68015-14	B-15 3'-5.5'	Solid	05/30/12 10:33	05/30/12 11:56

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
Phone (251) 666-6633 Fax (251) 666-6696

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

6/4/2012

Client Information
Client Contact: Mr. Bill Parrish
Company: Thompson Engineering Inc
Address: 2970 Cottage Hill Rd. Suite 190
City: Mobile
State, Zip: AL, 36606
Phone: 251-706-6510(Tel)
Email: bparrish@thompsonengineering.com
Project Name: ALDOT
Site: Bender Shipbuilding

Sampler: Bill Parrish
Phone: (251) 377-7967
Lab PM: Nance, Mike
E-Mail: mike.nance@testamericainc.com
Carrier Tracking No(s):
COC No: 700-27192-5215.2
Page: Page 1 of 2
Job #: 12-2116-0039

Due Date Requested: 72 hours
TAT Requested (days): 3 days
PO #: Purchase Order not required
WO #: 10-4025-0003
Project #: 70005757
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6010C - Priority Pollutant Metals by 6010C (ICP)	7471B - Hg	8260C - Target Compound List	8270D - Target Compound List	8081B_8082A - PCBs only	8260C - Target Compound List	6010C - Priority Pollutant Metals by 6010C (ICP)	7470A - Mercury	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N	N	N	A	D	D		
B-9 0'-3'	5/30/12	0801	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-9 3'-6'	5/30/12	0809	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-10 0'-3'	5/30/12	0821	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-10 3'-6'	5/30/12	0826	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-11 0'-3'	5/30/12	0843	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-11 3'-6'	5/30/12	0850	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-12 0'-3'	5/30/12	0904	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-12 3'-6'	5/30/12	0911	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-13 0'-3'	5/30/12	0930	C	Solid	N	N	✓	✓	✓	✓	✓				3	
B-13 3'-6'	5/30/12	0937	C	Solid	N	N	✓	✓	✓	✓	✓				3	
				Solid												

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2SO3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - ph 4-5
L - EDA	Z - other (specify)

Other:

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months

Deliverable Requested: I, II, III, IV, Other (specify)
Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date: 5/30	Time:	Method of Shipment:		
Relinquished by:	Date/Time: 5/30/12 1156	Company	Received by:	Date/Time: 5-30-12 1156	Company TA	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 0730	Company	

Custody Seals Intact: △ Yes △ No
Custody Seal No.: 700-6f015
Cooler Temperature(s) °C and Other Remarks:

Serial Number

6/4/2012

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica Mobile
900 Lakeside Drive
Mobile, AL 36693
www.testamericainc.com
Phone: (251) 666-6633
Fax: (251) 666-6696

Alternate Laboratory Name/Location:
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
ALDOT- Bender Shipbuilding	12-2116-0039	AL

STL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Mike Morse	N/A	N/A

CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Bill Parrish	(251) 342-7167	(251) 625-5505

CLIENT NAME	CLIENT EMAIL
Thompson Engineering	bparrish@thompsonengineering.com

CLIENT ADDRESS: 2970 Cottage Hill Rd Suite 190 Mobile, AL 36606

COMPANY CONTRACTING THIS WORK (if applicable)	SAMPLER'S SIGNATURE
ALDOT	

PAGE 2 OF 2

STANDARD REPORT DELIVERY ○
DATE DUE
EXPEDITED REPORT DELIVERY (SURCHARGE) ●
DATE DUE 72 hours

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) (INDICATE)	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT...)	NUMBER OF CONTAINERS SUBMITTED	REMARKS
5/30/12	1005	B-14 0'-3'	C		✓			1 1 1	
5/30/12	1011	B-14 3'-6'	C		✓			1 1 1	
5/30/12	1030	B-15 0'-3'	C		✓			1 1 1	
5/30/12	1033	B-15 3'-5.5'	C		✓			1 1 1	

REQUIRED ANALYSES

6010C - PP Metals TAL 7471B - Hg
NOTE: 8260C - Target Compound List 8270D - Target Compound List 8081B - 608 PEST-PCB only
NOTE: PRESERVATIVE

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
SAMPLE CONTAINERS				5/30/12	1156		5-30-12	1156
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
SAMPLE CONTAINERS				5-30-12	1156			

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT YES ○ NO ○	CUSTODY SEAL NO.	STL LOG NO.	LABORATORY REMARKS:
	5-30-12	1156			700-68015	

FCU036:12.20.00:2

Original - Return to Laboratory with Sample(s)

2.3°C 5592