VAPOR INTRUSION GROUNDWATER INVESTIGATION REPORT
Old Southington Landfill
Southington, Connecticut

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Prepared for

PERFORMING SETTLING DEFENDANTS
OLD SOUTHINGTON LANDFILL SUPERFUND PROJECT

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ACRONYMS

ARAR	Applicable or Relevant and Appropriate Requirements
BTEX	Benzene, Toluene, Ethylbenzene, and Total Xylenes
C&E	Chuck and Eddie's Salvage Yard
CBYD	Call Before You Dig
CD	Consent Decree
CDCE	Cis-1,2-Dichloroethylene
CT DEEP	Connecticut Department of Energy and Environmental Protection
CT RSRs	Connecticut Remediation Standard Regulations
CVOCs	Chlorinated Volatile Organic Compounds
11-DCA	1,1-Dichloroethane
DO	Dissolved Oxygen
DQA	Data Quality Assessment
DUE	Data Usability Evaluation
ELUR	Environmental Land Use Restriction
EPA	United States Environmental Protection Agency
FSP	Field Sampling Plan
GWVC	Groundwater Volatilization Criteria
ICSVVC	Industrial/Commercial Soil Vapor Volatilization Criteria
IVC	Industrial/Commercial Volatilization Criteria
LCS	Laboratory Control Sample
Loureiro	Loureiro Engineering Associates, Inc.
MEK	Methyl ethyl ketone
MTBE	Methyl Tertiary Butyl Ether
NTU	Nephelometric Turbidity Units
ORP	Oxidation Reduction Potential
OSL	Old Southington Landfill
PCE	Tetrachloroethene
PID	Photoionization Detector
PVC	Polyvinyl chloride
QA/QC	Quality Assurance/Quality Control
PSDs	Performing Settling Defendants
RCP	Reasonable Confidence Protocols
RDPOP	Remedial Design Project Operations Plan
ROD	Record of Decision
RPD	Relative Percent Difference
RSVVC	Residential Soil Vapor Volatilization Criteria
RVC	Residential Volatilization Criteria
SOP	Standard Operating Procedure
SOW	Statement of Work
SVVC	Soil Vapor Volatilization Criteria
TAL	Test America Laboratories
TCA	1,1,1-trichloroethane
TCE	Trichloroethylene
TICs	Tentatively Identified Compounds

VOA	Volatile Organic Analysis
VOCs	Volatile Organic Compounds

UNITS

fbg	feet below grade
in Hg	inches of mercury
L/m	liters per minute
µg/l	micrograms per liter
ppmv	parts per million by volume

1. INTRODUCTION

Loureiro Engineering Associates, Inc. (Loureiro), on behalf of the Performing Settling Defendants (PSDs), has performed the subsurface investigations associated with the Vapor Intrusion Groundwater Investigation in areas downgradient of the Old Southington Landfill (OSL) Superfund Site located in Southington, Connecticut (hereinafter referred to as "the Site"). The Site is located on Old Turnpike Road and is depicted on Figure 1-1 (Site Location Map). The work has been performed as specified in the November 2010 Remedial Design Project Operations Plan (RDPOP), which was submitted to the United States Environmental Protection Agency (EPA) and Connecticut Department of Energy and Environmental Protection (CT DEEP), and approved by the EPA in a letter dated December 17, 2010, entitled *EPA Approval of the Project Operations Plan and Revised Remedial Design/Remedial Action Plan for Limited Action for the Old Southington Landfill Superfund Site, Southington, CT* .

1.1 Purpose and Scope

The Vapor Intrusion Groundwater Investigation was completed in accordance with Section IV.C of the 2009 Statement of Work (SOW) (Appendix C of the Consent Decree (CD) for Remedial Design and Remedial Action Regarding Old Southington Landfill Superfund Site). The CD was lodged on October 6, 2009 in the United States District Court for the District of Connecticut. The investigation was conducted to confirm that there are no vapor intrusion risks to Chuck & Eddie's Salvage Yard (C&E), located at 450 Old Turnpike Road in Southington, the Radio Station property, located at 440 Old Turnpike Road in Southington and other properties associated with "Contaminated Groundwater" from the Site as defined in Section II.A. of the 2009 SOW.

The Vapor Intrusion Groundwater Investigation was performed at the C&E property, the Radio Station property, and at two locations along Nunzio Drive and Barbara Lane (located southwest of OSL). This report documents the performance of the Vapor Intrusion Groundwater Investigation, presents results from the investigation, as well as a summary of findings and conclusions.

1.2 Report Organization

In presenting the results of the Vapor Intrusion Groundwater Investigation completed for the Site, section discussions in the main body of the report are followed by supporting tables, drawings, and appendices. The following is a general description of the contents of each of the following sections of this report.

- Section 2 provides a description of the methodologies utilized for the Vapor Intrusion Groundwater Investigation.
- Section 3 presents a summary of the groundwater and soil vapor analytical results.
- Section 4 provides a comparison of the groundwater data against the Performance Standards of the 2009 SOW. This section also includes a request for the use of the Proposed 2003 Volatilization Criteria developed by the CT DEEP as the groundwater Applicable or Relevant and Appropriate Requirement (ARAR) for vapor intrusion for OSL.
- Section 5 includes a summary of findings and conclusions based on the results of the Vapor Intrusion Groundwater Investigation.

2. INVESTIGATION METHODOLOGIES AND PROCEDURES

This section presents a description of the methods and the procedures employed for the Vapor Intrusion Groundwater Investigation. Specifically, the methods and procedures discussed address the following: monitoring well installation, monitoring well development, water-level measurements, soil vapor probe installation, integrity testing of soil vapor probes, groundwater sampling, soil vapor sampling, surveying, decontamination of materials and equipment, waste management, field paperwork, post-sampling activities, quality assurance/quality control (QA/QC) procedures, and data management techniques. More detailed descriptions of specific groundwater monitoring and sampling procedures are presented in the respective Loureiro Standard Operating Procedures (SOPs), included in Attachment A of the Field Sampling Plan (FSP) of the RDPOP.

2.1 Pre-Drilling Procedures

Prior to the performance of drilling, monitoring well installation and soil vapor probe installation at the Site, Loureiro field personnel followed the procedures specified in Loureiro's *Groundbreaking and Excavation Safety Program*. A *Pre-Intrusion Worksheet and Permit* was completed prior to the commencement of drilling activities.

Loureiro completed a Call Before You Dig (CBYD) Notification and obtained CBYD ticket numbers on March 18, 2011. The following CBYD Ticket numbers were obtained for the work: Radio Station (2011-120-3130), C&E (2011-120-3122), 117 Nunzio Drive (2011-120-3096), 70 Barbara Lane (2011-120-3064). Due to the presence of electrical lines and storm sewer lines on the west side of Barbara Lane, the proposed monitoring well location was relocated to the opposite side of the road. In addition, due to the presence of large concrete blocks surrounding the perimeter of the west side of the C&E property, and the presence of wetlands and ponds in this area, Loureiro proposed relocation of the proposed monitoring wells to the east side of the concrete blocks. The revised locations of the proposed monitoring wells were approved by the EPA in an email dated May 24, 2011. Loureiro provided a revised RDPOP incorporating these changes. The approximate locations of the groundwater monitoring wells and soil vapor probes are identified on Figure 2-1.

Loureiro subcontracted Corbuilt, LLC (Corbuilt) to perform a private utility mark-out in the proposed work areas. Under the direction of Loureiro field personnel, Corbuilt utilized ground-penetrating radar and electromagnetic induction to identify any potential underground utilities on March 23, 2011. The area was cleared for the proposed drilling activities.

2.2 Advancement of Soil Borings

Eight soil borings were advanced between May 20, 2011 and May 31, 2011. The soil borings were identified as CB-MW-01 through CB-MW-08. The soil borings were advanced to depths ranging from 7 feet below grade (fbg) to 32 fbg.

Drilling activities for the Vapor Intrusion Groundwater Investigation commenced on May 20, 2011. Soil boring CB-MW-03 was advanced to a depth of 16 fbg utilizing a Geoprobe® Model 6610DT track-mounted drill rig following the procedures detailed in Loureiro's SOP ID #10011, *Geoprobe® Probing and Sampling*. Soil samples were collected using dual tube sampling equipment. Attempts were made to install a monitoring well using Geoprobe® hollow stem augers. The monitoring well could not be installed using this methodology due to auger refusals in the boring. Soil boring CB-MW-02 was advanced to a depth of 14 fbg on May 20, 2011, using a Geoprobe® Model 5400 truck-mounted drill rig and dual-tube sampling equipment. Loureiro completed the advancement of soil boring CB-MW-01 on May 31, 2011 with the Geoprobe® Model 6610DT track-mounted drill rig to a depth of 8 fbg. Loureiro also completed the soil boring at CB-MW-08 to a depth of 32 fbg using on May 23, 2011 a Geoprobe® Model 5400 truck-mounted drill rig and dual-tube sampling equipment. Soil samples were collected at all the monitoring well locations above to describe the characteristics of the unconsolidated materials and identify the approximate depth to groundwater at the location.

Loureiro subcontracted Geosearch, Inc. (Geosearch) of Fitchburg, Massachusetts to complete the installation of CB-MW-02 and CB-MW-03 due to shallow refusals encountered during drilling with the Geoprobe®, and to complete the installation of monitoring wells CB-MW-04 through CB-MW-08. The drilling was performed using a CME-85 hollow-stem auger drilling rig, following Loureiro SOP ID #10008, *Hollow Stem Auger Soil Borings*. Soil sampling was conducted at monitoring locations CB-MW-04, -05, and -06 to classify the soils and determine the approximate depth to groundwater using a two-inch diameter split spoon sampling device. Soil sampling was not conducted at monitoring well location CB-MW-07 due to the location of shallow piezometer GAB-PZ-01S, installed during the performance of the GA Boundary Investigation, which provided a static groundwater level to determine the screened interval for CB-MW-07. Soil borings CB-MW-04, -05, and -06 were completed to depths of 7 fbg at each location on May 26, 2011. Soil samples were also collected at locations CB-MW-02 and CB-MW-03 to a depth of 11 fbg at each boring to verify the approximate depth of the groundwater on May 26, 2011.

Soil samples at each soil boring were visually classified and logged by a Loureiro geologist using a modified Burmister soil classification system, in accordance with the Loureiro SOP ID

#10015, *Geologic Logging of Unconsolidated Sedimentary Deposits*. Soil samples were collected into sealable plastic bags from the dual tube clear polyvinyl chloride (PVC) liners or from the split spoon sampling device withdrawn from the boreholes. All soil samples were screened in the field for the presence of total volatile organic compounds (VOCs) using a portable photoionization detector (PID). Soil removed from the boreholes was placed into 5-gallon buckets and transferred into 55-gallon drums for characterization and subsequent disposal in accordance with state and federal regulations. Soil boring logs are provided as Appendix A. Field observations and recorded measurements were obtained using the QA/QC procedures provided in Loureiro's SOP ID #10005, *Quality Assurance/Quality Control Measures for Field Activities*. The depth at which groundwater was encountered was recorded in the boring logs. It should be noted that there were no samples submitted for laboratory analysis from the soil boring locations.

2.3 Monitoring Well Installation and Development

Eight groundwater monitoring wells (CB-MW-01 through CB-MW-08) were installed between May 20, 2011 to May 31, 2011. A total of three monitoring wells (CB-MW-04 through CB-MW-06) were installed on the C&E property located at 450 Old Turnpike Road. Three monitoring wells (CB-MW-01 through CB-MW-03) were installed on the Radio Station property located at 440 Old Turnpike Road, and two monitoring wells were installed on the Town of Southington right-of way, one well along Nunzio Road (CB-MW-07) and one well along Barbara Lane (CB-MW-08). The approximate locations of the eight groundwater monitoring wells are shown on Figure 2-1. Monitoring well details are provided in Table 2-1 and in Appendix A.

Monitoring wells CB-MW-02 through CB-MW-08 were installed using a CME 85 hollow-stem auger drilling rig. Monitoring well CB-MW-01 was installed using a Geoprobe® Model 6610DT. The monitoring wells were installed in general accordance with Loureio SOP ID#10007, *Installing & Developing Monitoring Wells and Piezometers*. Soil removed from the boreholes was placed into 5-gallon buckets and transferred into 55-gallon drums for characterization and subsequent disposal in accordance with state and federal regulations.

Monitoring wells CB-MW-01 through CB-MW-08 were constructed of 2-inch diameter Geoprobe® Pre-Pack well screens (10-feet in two 5-foot sections coupled together) with 2-inch diameter schedule 40 PVC riser extending to the ground surface. The Geoprobe® Pre-Pack well screens consist of a 0.010-slot, flush-thread, pre-packed (20/40 mesh sand) screen. Each screen was thread-coupled to a plug at the bottom of the screen. The monitoring wells were screened across the water table with approximately 3 feet of screen above the static water table and 7 feet

of screen below the static water table. Filter sand was poured around the screened section to approximately one foot above the top of the screen. A layer of compacted hydrated bentonite chips was installed above the filter sand. Portland cement grout was poured around the riser to the level of the protective concrete collar. Each monitoring well was completed with a compression plug with a pad lock inside of a steel road box, set in a concrete pad with a bolted cover, with the exception of monitoring wells CB-MW-04 through CB-MW-06, which were constructed as stick-up monitoring wells, with PVC riser extending above grade and a locking, stainless steel protective casing around the well.

The eight newly installed monitoring wells were developed prior to sampling on June 2 and 3, 2011. Monitoring well SDW-9A was also purged and turbidity levels were examined after one to two well volumes were removed from the well on June 2, 2011. Turbidity levels in SDW-9A were below 10 Nephalometric Turbidity Units (NTUs) after two well volumes were removed, and additional well development was not necessary prior to sampling. Using surge and over-pumping techniques, newly installed monitoring wells were developed in accordance with LEA's SOP ID #10007, *Installing and Developing Monitoring Wells and Piezometers*. Developing the monitoring points removes fine-grained sediments from the vicinity of the screen and enables groundwater to flow freely from the formation into the screen. Also, developing the monitoring points reduces the turbidity of the groundwater samples obtained during the sampling events.

Each monitoring well was developed using a peristaltic or submersible pump to draw down the level of the water in the well, followed by physical surging with a surge block. After surging, the monitoring well was vigorously pumped to remove accumulated sediment. The cycle was repeated until the monitoring well produced clear water and the following parameters stabilized: temperature, pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), and specific conductance. The water pumped from the well was determined to be clear if it was visibly clear and field turbidity measurements of the pumped water were below 5 NTUs. The parameters were assessed to be stabilized in accordance with LEA SOP ID #10007. Further development by over-pumping and surging was performed as necessary until the monitoring well produced clear water and the field parameters stabilized. If the turbidity of the water pumped from the well did not reach 5 NTUs or less (but is less than 50 NTUs), and the other field parameters of the groundwater stabilized, the well was considered adequately developed. Turbidity readings from monitoring wells CB-MW-01 through -03 at the Radio Station property were not below 50 NTUs during well development. However, these monitoring wells did not recharge rapidly (taking an hour or more to recharge). Each of these wells was allowed to recharge, and the wells were surged and pumped dry four to six times each during well development.

2.4 Soil Vapor Probe Installation

Loureiro performed the installation of two soil vapor probes (CE-SV-01 and CE-SV-02) in the building at the C&E property on May 19, 2011. Prior to installation of the soil vapor probes inside the building, the concrete slab floor was cored with a core drill with a 6-inch diameter bit. The soil vapor probe locations were advanced using hand augers in accordance with Loureiro SOP ID #10003, *Hand Auger Borings*. At both locations the soil was primarily composed of reddish-brown fine to medium sand with little silt and a trace of fine and coarse gravel.

Loureiro installed the gas probes in accordance with Loureiro SOP ID #10007 entitled, *Installing & Developing Monitoring Wells and Piezometers*. The gas probes were constructed of 1- inch diameter Schedule 40 PVC, with a 1-foot, 0.010 slotted screen section set at the bottom of the boring. Soil vapor probe CE-SV-01 was installed to a depth of 3.5 fbg and CE-SV-02 was installed to a depth of 3.2 fbg. Filter sand was poured around the screened section to approximately 6 inches above the top of the screen. A layer of compacted hydrated bentonite chips was installed above the filter sand. Bentonite grout was poured around the riser to the level of the bottom of the concrete floor. The probe was capped with a ball valve/hose barb assembly installed on the riser. The soil vapor probes were completed with a flush mounted, 4-inch diameter well protector. Three to four inches of concrete was installed inside the annulus of the well protector. The well completion logs are located in Appendix A.

2.5 Soil Vapor Probe Integrity Testing

Leak testing was performed at the two soil vapor probes installed at the C&E property (CE-SV-01 and CE-SV-02) and the two existing soil vapor probes at the Radio Station property (RS-SV-01 and RS-SV-02) using the same methodology detailed in the FSP of the RDPOP. Loureiro attempted to perform the integrity testing on the soil vapor probes on May 27, 2011 and June 4, 2011. Due to hot and humid conditions, leak testing failed at a majority of the soil vapor probes. Helium was found to be detected in the soil vapor probes and in the ambient air after the meter was removed from the sampling probe due to the elevated humidity, which can lead to false detections of helium during leak testing. Leak testing was again performed on the soil vapor probes on June 10, 2011 and June 15, 2011. All four of the soil vapor probes passed the integrity testing. The results of the leak testing are presented on Table 2-2.

2.6 Groundwater and Soil Vapor Sampling

Soil vapor and groundwater sampling was performed on a quarterly basis in June 2011, September 2011, December 2011, and March 2012. The below sections describe the sampling methodology used during the quarterly sampling events.

2.6.1 Groundwater Sampling

The groundwater monitoring network consisted of a total of nine monitoring wells, including the eight newly installed monitoring wells (CB-MW-01 through CB-MW-08), and one additional existing monitoring well (SDW-9A) located west of the Radio Station.

Water level gauging was conducted following Loureiro's SOP ID#10004, *Liquid Sample Collection and Field Analysis*. Static water level measurements were recorded to the nearest 0.01 feet.

Using the general procedures described in Loureiro's SOP #10039 entitled *Low Flow (Low Stress) Liquid Sample Collection and Field Analysis*, groundwater samples were collected utilizing adjustable rate submersible pumps or peristaltic pumps during the June 2011 sampling event, and pneumatic bladder pumps for the September 2011, December 2011, and March 2012 sampling events. Samples collected from monitoring well SDW-9A were collected using a peristaltic pump during all four of the sampling events. Drawdown within the well was monitored and field personnel attempted to induce less than 0.3 feet of drawdown by adjusting the pumping rate. Purging of the well occurred prior to sampling until the field indicator parameters stabilized in cases of minimal drawdown exceeding 0.3 feet (but stabilized). During the purging process, the temperature, pH, dissolved oxygen, oxidation-reduction potential, turbidity, and specific conductivity of the extracted groundwater were monitored approximately every 5 to 10 minutes (or after purging at least one flow-through-cell volume).

The wells were considered adequately purged and ready to be sampled when the measured parameters stabilized to within the limits indicated in Loureiro SOP #10039, and when an increasing or decreasing trend was not observed, based on the measured field parameters as follows:

- pH: within ± 0.1 Standard Units;
- specific conductance: ± 3 percent;
- temperature: ± 3 percent;
- DO: ±10 percent; and
- turbidity: ± 10 percent for values greater than 5 NTUs and ± 0.5 NTUs for values less than 5 and greater than 1 NTU.

Due to elevated turbidity levels in monitoring wells on the Radio Station property (CB-MW-01, -02, and -03), samples were collected by both field filtering the groundwater samples with a 10-micron filter, and collecting unfiltered groundwater samples. In addition, a peristaltic pump was used to collect additional unfiltered groundwater samples. Both filtered and unfiltered groundwater samples were also collected from CB-MW-01 during the September and December 2011 sampling events, CB-MW-03 during the December 2011 sampling event, and CB-MW-04 during the December 2011 sampling event due to higher turbidity levels.

The purged groundwater was contained within 5-gallon carboys and was later transferred to a 55-gallon drum located on the Site to be disposed of offsite. The results of the measurement of these field parameters are noted in the copies of the field records in Appendix B.

Each individual groundwater sample collected was given a unique seven digit tracking number assigned by the Loureiro Information Management System database. Any other pertinent information regarding the sampling location and field measurements was recorded in the field notes by on-site sampling personnel.

The initial groundwater sampling event was performed no sooner than two weeks following the development of the new monitoring wells (well development performed on June 2 and 3, 2011), on June 15 and 16, 2011. The subsequent three quarterly groundwater sampling events were conducted every third month following the initial round of groundwater sampling.

Groundwater samples were collected in three 40-milliliter EPA volatile organic analysis (VOA) vials, placed in an ice-filled cooler and submitted under chain-of-custody control to a courier of Test America Laboratories (TAL) of Shelton, Connecticut during the June 2011 sampling event for VOCs analysis using EPA SW-846 Method 8260B. Following the June 2011 sampling event, TAL no longer performed laboratory analysis at the Shelton, Connecticut facility. The following three quarters of groundwater samples were submitted to the TAL facility in Westfield, Massachusetts. EPA verbally agreed to the change of laboratories in December 2011, and the laboratory change was documented in the revisions to the RDPOP submitted to the EPA and CT DEEP on March 13, 2012.

Groundwater samples were identified on the sample containers and chain-of-custody forms by a sample number only. The monitoring well location was not identified to the laboratory. Duplicate, equipment blank, and trip blank samples were given separate sample numbers and were not identified to the laboratory. Chain-of-custody forms were prepared and submitted to the laboratory with the samples by Loureiro personnel. Upon completion of sampling activities, Loureiro personnel completed the necessary field paperwork documenting the daily activities, decontaminated all non-dedicated field sampling equipment, and cleaned the work area.

2.6.2 Soil Vapor Probe Sampling

Soil vapor sampling was conducted at soil vapor probes CE-SV-01 and CE-SV-02 on the C&E property and the previously installed probes identified as RS-SV-01 and RS-SV-02 located at the Radio Station property.

Soil vapor samples were collected from each of the soil vapor probes using Summa® canisters for analysis of VOCs in accordance with the methods and QA/QC measures detailed in the QAPP of the RDPOP. Each Summa® canister was certified clean by the laboratory. The canisters were evacuated by the laboratory to a vacuum of approximately 30 inches of mercury (in Hg). The soil vapor samples were collected following the general procedures described in LEA's SOP ID #10049, *Summa® Canister Sampling*.

The probes were purged for 15 minutes using an air pump at a maximum rate of 0.5 liters per minute (L/m). A portable VOC analyzer equipped with a PID was used to record VOC readings. A section of Teflon® tubing was then attached to the vapor probe. The Teflon® tubing was connected to a valve using Swagelok® fittings. The Teflon® tubing was then connected to the port on the Summa® canister. The valve on the canister was then opened to initiate the sample collection at an approximate rate of 0.0167 L/m. Regulators on the Summa® canisters were set by the laboratory for a 6-hour sampling period. The vacuum within the canister was recorded at the beginning and at the end of the 6-hour sampling period. Each Summa® canister was equipped with a vacuum gauge, a flow regulator calibrated to fill the canister over a 6-hour period, and an appropriate pre-filter to prevent particles from entering the canister. Each vapor monitoring point sample was collected over a four to six-hour time period in a one-liter Summa canister.

Soil vapor samples were submitted under chain-of-custody control to a courier of TAL of Burlington, Vermont for VOCs analysis using EPA SW-846 Method TO-15.

2.7 Decontamination of Materials and Equipment

Non-dedicated sampling equipment was subject to decontamination procedures prior to sampling, consistent with the Loureiro SOPs. Sampling equipment was immersed in an Alconox/Liquinox® and tap water solution, and scrubbed to remove all debris. The sampling equipment was subsequently processed through several rinse/wash procedures in specific order as follows:

- Detergent scrub,
- Distilled water rinse,

- 10 percent methanol rinse, and
- Air dry.

All decontamination rinseate and wash water were containerized for disposal.

2.8 Management of Investigation Derived Waste

During the soil investigation activities, the waste soil was deposited into 55-gallon open-top drums staged inside the fenced area on the south end of the Old Southington Landfill. Purge water from groundwater sampling activities and decontamination fluids were initially placed into 5-gallon carboys, and transferred to 55-gallon closed-top drums staged at the same location. The drums were labeled and stored at this location prior to offsite disposal.

2.9 Field Paperwork

Field personnel documented all aspects of field sampling, field analysis, and sample chain-of-custody. This documentation constitutes a record, which allows reconstruction of all field events to aid in the data review and interpretation process. All documents, records, and information relating to the performance of the field work have been retained in the project file. Various forms of field documentation were maintained during the monitoring and reporting program:

- Daily Production Documentation – Daily field forms containing a record of all field sampling activities.
- Sampling Information – Detailed notes were made concerning the sample location, physical observations, field parameter measurements, sample depths, and weather conditions.
- Chain-of-Custody – Chain-of-custody forms provide the record of responsibility for sample collection, transport, and submittal to the laboratory. Chain-of-custody forms were filled out at each sampling site, at a group of sampling sites, or at the end of each day of sampling by one of the field personnel designated to be responsible for sample custody.
- Field Equipment Calibration Log – To document the calibration of field instrumentation, calibration logs were maintained for each piece of field equipment.

Field paperwork has been included as Appendix B.

2.10 Data Verification

Information collected in the field through visual observation, manual measurement, and/or field instrumentation was recorded in field forms. The data was reviewed for consistency. Concerns

identified as a result of this review were discussed with the field personnel, corrected as necessary, and incorporated into the data evaluation process. Field data calculations, transfers, and interpretations were conducted by field personnel and subsequently reviewed for accuracy by the project scientist. All logs and documents were checked for:

- General completeness,
- Readability,
- Usage of appropriate procedures,
- Appropriate instrument calibration and maintenance,
- Reasonableness in comparison to present and past data collected,
- Correct sample locations, and
- Correct calculations and interpretations.

2.11 Quality Assurance/Quality Control Samples

The monitoring was conducted following the procedures in the RDPOP. Field replicate samples (also known as duplicate samples), trip blank samples, and an equipment blank sample were obtained and submitted for laboratory analysis. These QA/QC measures are performed to document the reliability of field sampling analytical results.

One field duplicate sample pair was collected during each of the quarterly groundwater monitoring events to provide a measure of the consistency of samples from the same sampling location and an estimate of variance and bias. Field duplicate samples were collected to provide a measure of the reproducibility of field sampling and laboratory analytical methodologies. Duplicate samples were coded in a fashion that did not alert the laboratory to the fact that the samples were replicates. Consistency between analytical results for field duplicate samples indicates consistent field sampling, sample handling, and analytical laboratory procedures.

As mentioned above, trip blanks and equipment blanks were obtained or collected for QA/QC purposes and submitted for analysis. Trip blank samples are used to indicate if any cross contamination between samples or contamination from other sources of VOCs may have occurred during transport, storage, or laboratory analysis of samples. Equipment blanks help determine if the equipment that was used throughout the day and/or in sample collection was contaminated.

2.12 Data Management Tools

A comprehensive electronic database is maintained for the project. Types of project data included in the database files range from project and site location information to information about the individual sampling points and samples collected. Among the data stored in the database are geologic boring logs, well logs, sample location, sampling time, depth, and field and analytical data. Direct electronic transfer of analytical data from the analytical laboratory provides efficient and accurate transfer of information. Output from the database is provided in electronic form directly to data tables, report text, and AutoCAD® drawings, minimizing errors due to data transcription.

3. INVESTIGATION RESULTS

This section summarizes the results of the groundwater and soil vapor sampling performed during the Vapor Intrusion Groundwater Investigation. This section also provides information regarding the chemical constituents detected in groundwater samples collected at the Site. Specifically, the following subsections summarize the reported concentrations for each constituent and provide a discussion of the results of the QA/QC measures employed for the groundwater sampling conducted at the Site.

3.1 Groundwater Quality

The following sections summarize groundwater quality in terms of analytical results for the groundwater samples collected at the Site for VOCs. Figure 2-1 provides the locations of the soil borings, monitoring wells, and soil vapor monitoring locations. Table 3-1 presents a summary of sampling and analytical information for the groundwater sampling locations included during the Vapor Intrusion Groundwater Investigation. The table includes the sample location identifier, the discrete sample number associated with the location, the date on which the sample was collected, the screened interval of the monitoring well, the sample classification, the analyses performed on the sample (VOCs), and whether or not VOCs were detected above the laboratory reporting limits for the sample (a capital "X" indicates that VOCs were detected). Table 3-2 provides a summary of all constituents detected in groundwater, and Table 3-3 provides a summary of all of the groundwater analytical results (including non-detections). Copies of the analytical laboratory reports as received from the laboratory are provided in Appendix C.

3.1.1 Radio Station Property

In general, very few VOCs were detected in samples collected from the wells on or downgradient of the Radio Station Property (CB-MW-01, CB-MW-02, CB-MW-03 and SDW-9A), with the detections primarily in the samples from the first monitoring event in June 2011. No VOCs were detected in any of the samples collected from monitoring well SDW-9A. Only toluene, acetone and ethyl benzene were detected in the groundwater collected from monitoring wells on the Radio Station property. Acetone was detected in samples collected in June 2011 in CB-MW-01, CB-MW-02, and CB-MW-03 at a maximum concentration of 15 micrograms per liter (µg/l) in monitoring well CB-MW-03. Acetone was also detected in the samples collected from CB-MW-01 during the September 2011 sampling event at a maximum concentration of 38 µg/l. Ethyl benzene was detected in only one sample collected from monitoring well CB-MW-02 in the June 2011 monitoring event at a concentration of 1 µg/l.

Toluene was detected in only two samples collected during the December 2011 sampling event in monitoring wells CB-MW-01 and CB-MW-03, at concentrations of 2.7 µg/l and 3.4 µg/l, respectively.

3.1.2 Chuck and Eddie's Property

Three of the wells used for this investigation are located on the Chuck and Eddie's Property: CB-MW-04, CB-MW-05 and CB-MW-06. Both chlorinated and aromatic VOCs were detected in samples from two of the monitoring wells (CB-MW-04 and CB-MW-05) in each of the four sampling events in this investigation. However, no VOCs were detected in samples from monitoring well CB-MW-06 on the southwest side of Chuck and Eddie's property.

Specific aromatic VOCs detected and the highest concentration of each detected in monitoring wells CB-MW-04 and CB-MW-05 include: methyl tert butyl ether (MTBE) (2.0 µg/l), benzene (0.95 µg/l), toluene (2.4 µg/l) and o-xylene (2.0 µg/l). However these constituents are attributed to sources from the C&E property due to the presence of MTBE, since MTBE was not in use during the active operation of the Site, and is not a COC for the Site. Chlorinated VOCs detected and the highest concentration of each in monitoring wells CB-MW-04 and CB-MW-05 include: vinyl chloride (3.8 µg/l), cis-1,2-dichloroethylene (CDCE) (7.7 µg/kg), trichloroethylene (TCE) (0.56 µg/l) and 1,1-dichloroethane (0.68 µg/l). Vinyl chloride was detected in samples from CB-MW-05 collected in all four monitoring events and in samples from CB-MW-04 in two of the monitoring events.

3.1.3 Residential Area Southwest of the Chuck and Eddie's Property

Samples collected from the two wells located in the area southwest of Chuck and Eddie's, CB-MW-07 and CB-MW-08, contained almost no VOCs. No VOCs were detected in any of the samples from CB-MW-08. Only one VOC (1,1,1 trichloroethane [TCA]) was detected in one sample collected from CB-MW-07 during the June 2011 sampling event at a concentration of 1.1 µg/l. However, that result was qualified by the laboratory as biased high because of high surrogate recovery in the laboratory control sample, and TCA was not detected in any of the other three rounds of sampling.

3.2 Soil Vapor Sampling

The following sections summarize the results of the soil vapor sampling conducted inside the buildings at the C&E and Radio Station properties. Figure 2-1 provides the locations of the soil borings, monitoring wells, and soil vapor monitoring locations. A summary of sampling and analytical information for soil vapor samples is provided as Table 3-4. The table includes the

sample location identifier, the discrete sample number associated with the location, the date on which the sample was collected, the sample classification, the analyses performed on the sample (VOCs), and whether or not VOCs were detected above the laboratory reporting limits for the sample (a capital "X" indicates that VOCs were detected). All constituents that were detected in soil vapor throughout the Vapor Intrusion Groundwater Investigation are identified in Table 3-5, and a summary of all soil vapor analytical results (including those VOCs not detected above reporting limits) is included in Table 3-6. Copies of the analytical laboratory reports as received from the laboratory are provided in Appendix C.

VOCs were detected in the soil vapor samples collected from all four of the probes, including both chlorinated and aromatic VOCs during the sampling conducted in June 2011, September 2011, and December 2011, and in CE-SV-01, RS-SV-01, and RS-SV-02 during the March 2012 sampling event.

3.2.1 Radio Station Property

Aromatic and chlorinated VOCs were detected in all four of the soil vapor samples collected at the Radio Station property. Concentrations of VOCs detected were generally consistent with previous soil vapor sampling results from RS-SV-01 and RS-SV-02.

3.2.2 Chuck and Eddie's Property

Elevated concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) were detected in a soil vapor sample collected from CE-SV-02 during the March 2012 sampling event. The analytical laboratory reported the March 2012 data for the sample collected from CE-SV-02 at a dilution factor of 4,360. Therefore, the reporting limits for the other VOCs, including chlorinated VOCs (CVOCs) that are the constituents of concern for the groundwater plume emanating from OSL, were elevated due to the dilution required to perform the laboratory analysis. Multiple VOC constituents were detected at concentrations above the laboratory reporting limits within the soil vapor samples submitted to TAL for VOCs by TO-15 analysis.

Elevated concentrations of benzene, ethylbenzene, toluene, and xylenes were detected in a soil vapor sample from CE-SV-02 and are discussed further in Section 4. Acetone, benzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, p-dichlorobenzene, ethylbenzene, methyl ethyl ketone (MEK), dichlorodifluoromethane, trichlorofluoromethane, toluene, o-xylene, and m & p xylenes were detected in samples collected during one or more quarters from all four vapor monitoring locations.

3.3 Quality Assurance/Quality Control Samples

QA/QC samples collected during the four consecutive quarterly groundwater sampling events included four duplicate groundwater samples, five trip blanks, and four equipment blanks. Trip blanks were collected every day of monitoring well sampling. All QA/QC samples were submitted to TAL for analysis. VOCs (2-butanone, dichloromethane, and toluene) were detected in three out of the four equipment blanks, and dichloromethane was detected in two out of the five trip blanks submitted, indicating that there was possible laboratory contamination or field contamination during sample handling or transport. 2-butanone and dichloromethane were not detected in any of the groundwater samples submitted for analysis. Detections of VOCs in groundwater for toluene may be biased high due to the presence of toluene in the trip blank(s).

Field duplicate samples are collected to provide a measure of the reproducibility of field sampling and laboratory analytical methodologies. Consistency between analytical results for field duplicate samples indicates consistent field sampling, sample handling, and analytical laboratory procedures. The consistency between field duplicate pairs is often measured by the relative percent difference (RPD) between the reported concentrations of detected analytes. The RPD is calculated from the following formula:

$$RPD = \frac{|X_1 - X_2|}{(X_1 + X_2)/2} \times 100\%$$

where X_1 and X_2 represent the two reported concentration measurements.

According to Region 1 Data Validation Functional Guidelines for Evaluating Environmental Analyses (December 1996), acceptable field duplicate precision is achieved when the RPD for all compounds detected at concentrations greater than the sample quantitation limit in aqueous matrices is less than or equal to 30 percent. Duplicate samples were collected from monitoring well CB-MW-06 in June 2011, CB-MW-04 in September 2011, and CB-MW-05 in both December 2011 and March 2012. The RPDs were generally below 10% for the duplicate samples collected. Constituents detected in the groundwater samples for the duplicate sample pairs were within the acceptable limits for aqueous matrices, with the exception of the duplicate sample collected during the March 2012 sampling event from CB-MW-05. VOCs (1,1-dichloroethane and vinyl chloride) were detected in one of the samples collected from this well, but not in the duplicate sample collected from this monitoring well.

3.4 Data Quality Assessment and Data Usability Evaluation

Analytical data for groundwater were evaluated with respect to quality by conducting a data quality assessment (DQA) and data usability evaluation (DUE). The DQA and DUE were conducted in accordance with the guidance document published in May 2009 by the CT DEEP entitled, *Laboratory Quality Assurance Quality Control, Data Quality Assessment, Data Usability Evaluation Guidance* Document. The DQA was performed to assess the quality of the analytical data in each laboratory analytical report package. The considerations used during the DQA are those described in the May 2009 guidance document. The DQA resulted in identifying data for which the quality could affect its potential use in decision-making. The Reasonable Confidence Protocol (RCP) Data Quality Assessment Worksheets that were generated during that assessment process are included in Appendix D.

Each groundwater analytical data package was reviewed in accordance with the DQA review process. The following types of deficiencies were noted:

- Laboratory control sample (LCS) recoveries outside the accepted range of variability;
- Initial calibration curve and continuing calibration verification outside the accepted range of variability for specific VOC constituents;
- Continuing calibration verification outside of the acceptable limits;
- Contamination of the Method Blank;
- Elevated reporting limits were used as samples were diluted due to limited sample volume.

Deficiencies that were noted in the air analytical data package included the following:

- Elevated reporting limits; and
- Constituents (acrylonitrile, 1,3-dichlorproprane, and 1,1,1,2-tetrachloroethane) evaluated as tentatively identified compounds (TICs) as they are not part of the laboratory's TO-15 calibration.

After the laboratory analytical data were evaluated during the DQA, a DUE was performed. In addition to any issues identified during the DQA, the DUE took into account:

- The conceptual site model;
- Knowledge of concentrations and distribution of contaminants; and
- Objectives for the data collection effort and the intended use of the data (i.e., the data quality objectives).

Reporting limits were elevated due to sample dilution in the laboratory analyses from the soil vapor sample collected from CE-SV-02 during the March 2012 sampling event due to the presence of elevated benzene, toluene, ethylbenzene, and total xylenes (BTEX), which is

attributable to a recent release of petroleum products from operations conducted at the C&E facility. Specific constituents and QA/QC non-conformances are identified in the DQA worksheets provided in Appendix D.

Results of the DUE indicated that the data generated during the sampling event were of sufficient quality and usable for the intended purpose. The conclusion was based on the nature of the issue identified, the amount of deviation from acceptance criteria, and the total data set for the Vapor Intrusion Groundwater Investigation.

4. DATA EVALUATION

All results were evaluated against the lower of the Volatilization Criteria of the CT RSRs as promulgated in 1996 and the draft 2003 Volatilization Criteria developed by the CT DEEP, as identified in Appendix B, Table L-1 of the 2006 Record of Decision (ROD) (Appendix A of the 2009 Consent Decree). This section presents an evaluation of the groundwater and soil vapor data with respect to those criteria.

4.1 Groundwater Evaluation

Vinyl chloride was the only VOC detected above the applicable Volatilization Criteria for groundwater during the Vapor Intrusion Groundwater Investigation. The applicable Volatilization Criteria for vinyl chloride for the Site are 1.6 µg/l (2003 Proposed RVC) and 2.0 µg/l (1996 promulgated IVC). Vinyl chloride was detected in groundwater samples collected from monitoring well CB-MW-04 at concentrations of 1.8 µg/l and 2.2 µg/l during the December 2011 and March 2012 sampling events, respectively. Vinyl chloride was detected in monitoring well CB-MW-05 at concentrations ranging from 2.2 µg/l to 3.8 µg/l in the September 2011, December 2011, and March 2012 sampling events. A summary of VOCs detected and exceedances of the applicable Volatilization Criteria are presented in Table 4-1. Pursuant to the 2006 ROD for the Site, these on-site volatilization criteria exceedances will be addressed through the application of an ELUR to the downgradient properties (C&E and the Radio Station).

As indicated above, vinyl chloride was detected above the applicable Volatilization Criteria in shallow monitoring wells along the western boundary of the C&E property. However, investigations documented in the Highland Hills Investigation Report (submitted to the EPA and CT DEEP, dated September 2010) showed that VOCs were not detected above laboratory reporting limits in groundwater samples collected from either of the downgradient monitoring wells installed from 0 to 1 foot below the phreatic groundwater surface or the monitoring well installed 2 to 3 feet below the phreatic groundwater surface. These locations, including HH-SB-01A, HH-SB-01B, HH-PZ-01, HH-MW-01, and HH-MW-02, are west of CB-MW-04 and CB-MW-05 and are shown on Figure 2-1. The absence of VOCs in groundwater samples collected from the temporary monitoring wells west and downgradient of CB-MW-04 and CB-MW-05 demonstrate that shallow groundwater containing concentrations of constituents above the Volatilization Criteria likely does not extend to the town parcel adjacent to the C&E property, which is not suitable for development due to the presence of surface water bodies and wetlands.

4.2 Soil Vapor Evaluation

No exceedances of the applicable Soil Vapor Volatilization Criteria (SVVC) were detected in any of the soil vapor samples collected from the Radio Station property (RS-SV-01 and RS-SV-02), or in soil vapor probe CE-SV-01 at the C&E property. In addition, no exceedances of the applicable SVVC were detected in any of the soil vapor samples collected from CE-SV-02 at the C&E property during the first three quarters of sampling (in June 2011, September 2011, and December 2011). Concentrations of benzene, ethylbenzene, and toluene were detected at concentrations that exceed the applicable SVVC for soil vapor in a sample collected from CE-SV-02 in the fourth quarterly sampling event (March 2012). Benzene exceeds the applicable Residential SVVC (RSVVC) for soil vapor (0.78 parts per million by volume [ppmv]) at a concentration of 4.1 ppmv. The concentration of benzene also exceeds the applicable Industrial/Commercial Soil Vapor Volatilization Criteria (ICSVVC) of 1.4 ppmv. Ethylbenzene and toluene were reported at concentrations of 16 ppmv and 130 ppmv, respectively, in the March 2012 sample collected from CE-SV-02.

As referenced in the June 8, 2012 letter from Loureiro to the EPA and CT DEEP entitled "Vapor Intrusion Monitoring Update", due to the elevated levels of BTEX detected, the analytical laboratory reported the data for the sample collected from CE-SV-02 at a dilution factor of 4,360 during the March 2012 sampling event. Therefore, the reporting limits for the other VOCs, including CVOCs that are the constituents of concern for the groundwater plume emanating from the Site, were elevated due to the dilution required to perform the laboratory analysis. The reporting limits were above the applicable RSVVC and/or ICSVVC for the following VOCs: bromodichloromethane, bromoform, carbon tetrachloride, chloroform, 1,2-dichloroethane, 1,1-dichloroethene, ethylene dibromide, methylene chloride, 1,1,2,2-tetrachloroethane, tetrachloroethene (PCE), 1,1,2-trichloroethane, TCE, and vinyl chloride. In addition, the presence of other VOCs at much lower concentrations could not be positively identified due to the dilution of the sample. However, a majority of these VOCs were not detected above laboratory reporting limits during the first three quarterly sampling events, and those VOCs that were detected during the first three quarterly sampling events (including methylene chloride, TCE and PCE) were two to three orders of magnitude lower than the applicable RSVVC. Methylene chloride was not detected above reporting limits during the first three quarterly sampling events, and TCE and PCE were only detected once in CE-SV-02 during the December 2011 sampling event at concentrations of 0.00044 ppmv and 0.00058 ppmv, respectively, approximately three orders of magnitude lower than the applicable RSVVC for these VOCs (0.14 ppmv and 0.56 ppmv, respectively). A summary of VOCs detected and exceedances of the applicable SVVC are presented in Table 4-2.

The Site is not the source of the elevated concentrations of aromatic VOCs in CE-SV-02 detected in the March 2012 sampling event. The basis for this statement is that the elevated aromatic VOCs detected during the March 2012 monitoring event are not constituents of concern associated with the Site. A review of the groundwater data from a monitoring well directly downgradient of the landfill, GZ-5S (included as one of the Cap Effectiveness Monitoring wells), shows that benzene was not detected in 33 rounds of sampling over more than 10 years, and toluene, ethylbenzene, and total xylenes were only detected one time, during the September 2011 sampling event. Elevated levels of the BTEX constituents were not detected in shallow groundwater monitoring well GZ-5S (located approximately 55 feet upgradient from soil vapor sampling location CE-SV-02) during the September 2011 and March 2012 Cap-Effectiveness Monitoring event, nor was there an increase in the CVOCs associated with the landfill plume. A summary of the VOCs detected in monitoring well GZ-5S is provided in Table 4-3. The Cap Effectiveness monitoring wells have been sampled on at least a semi-annual basis since September 2003, so the absence of any increasing trend further demonstrates that the BTEX source is not associated with Contaminated Groundwater.

Although reporting limits for certain CVOCs were above the applicable RSVVC and ICSVVC for the March 2012 soil vapor sample collected from CE-SV-02, the three quarters of data obtained prior to the March 2012 sampling event confirmed that no chlorinated VOCs were detected in the soil vapor samples at concentrations above, or even within an order of magnitude of, the RSVVC. Further, no exceedances of the RSVVC were detected in soil vapor samples from CE-SV-01, located approximately 80 feet from CE-SV-02. The C&E building is a relatively small (approximately 4,500 square-foot), one-room structure. The Site plume area is significantly wider than the C&E building. Concentrations of constituents of concern related to the Site have been reasonably consistent (taking into consideration that most positive detections were very close to the analytical reporting limit) during the first three Vapor Intrusion Monitoring events. Therefore, the March 2012 sample from CE-SV-01 is considered to be representative of soil vapor quality beneath the C&E building (with respect to constituents associated with contaminated groundwater from OSL) in the absence of acceptable reporting limits for the March 2012 soil vapor sample collected from CE-SV-02. The four quarters of soil vapor sampling conducted at the Radio Station and C&E properties indicate that there is no risk to human health and the environment due to volatilization from the contaminated groundwater emanating from the Site.

5. SUMMARY AND CONCLUSIONS

Loureiro has completed the groundwater sampling associated with the Vapor Intrusion Groundwater Investigation detailed in the RDPOP. The results of the investigation indicate the following:

- Vinyl chloride was the only VOC constituent that was detected above the applicable volatilization criteria for the Site, at levels only slightly above applicable criteria. Vinyl chloride was detected in monitoring wells CB-MW-04 and CB-MW-05, which are located along the western boundary of the C&E property. The chlorinated VOCs in the groundwater plume continue to migrate between CB-MW-04 and CB-MW-05 and the sampling locations from the Highland Hills Investigation to the west, as demonstrated through the sampling conducted during that investigation, as VOCs were not detected in shallow groundwater as deep as 17 feet below the phreatic groundwater surface. In addition, should the request for alternative Volatilization Criteria be approved by the EPA and CT DEEP, the concentrations in groundwater would not exceed the applicable IVC in shallow groundwater at the western boundary of the C&E property. Institutional controls in the form of ELURs are to be implemented for the C&E property prohibiting the construction of new buildings, thereby eliminating the potential for vapor intrusion risk to human health on this property.
- No exceedances of the applicable SVVC were detected in any of the soil vapor samples collected from the Radio Station property (RS-SV-01 and RS-SV-02), or in soil vapor probe CE-SV-01 at the C&E property. In addition, no exceedances of the applicable SVVC were detected in any of the soil vapor samples collected from CE-SV-02 at the C&E property during the first three quarters of sampling (in June 2011, September 2011, and December 2011).
- Although elevated levels of aromatic VOCs (BTEX compounds) were detected at concentrations that exceed the applicable SVVC for soil vapor in a sample collected from CE-SV-02 in March 2012, the Site is not the source of these aromatic VOCs. The March 2012 sample from CE-SV-01 is considered to be representative of soil vapor quality beneath the C&E building (with respect to constituents associated with contaminated groundwater from the Site) in the absence of acceptable reporting limits for the March 2012 soil vapor sample collected from CE-SV-02. Therefore, there is no risk to human health and the environment due to volatilization from the Contaminated Groundwater emanating from the Site, and the PSDs request a determination from EPA that no additional soil vapor sampling is necessary beyond the sampling performed during the Vapor Intrusion Groundwater Investigation, and that no additional work would be necessary with respect to soil vapor intrusion at the C&E Property, with the exception of recording an ELUR.

Based on the findings of the Vapor Intrusion Groundwater Investigation, coupled with the future implementation of ELURs preventing the construction of new buildings at the C&E property (without first constructing a vapor intrusion control system in the form of vapor barriers and/or sub-slab depressurization systems), the obligations and requirements set forth in (a) Section L.1.B.1(3) of the September 2006 Final ROD, Old Southington Landfill Superfund Site, and (b) Section IV.C.1. of the 2009 SOW, have been fulfilled, and no further action is required.

TABLES

Table 2-1
Vapor Intrusion Groundwater Investigation
Monitoring Well Information

Monitoring Well Location	Property Location	Observed Depth to Groundwater (feet below grade)	Screened Interval (feet below grade)
CB-MW-01	Radio Station	8	5 to 15
CB-MW-02	Radio Station	10	7 to 17
CB-MW-03	Radio Station	11	8 to 18
CB-MW-04	Chuck & Eddie's	10	7 to 17
CB-MW-05	Chuck & Eddie's	10	7 to 17
CB-MW-06	Chuck & Eddie's	10	7 to 17
CB-MW-07	Nunzio Drive	26	23 to 33
CB-MW-08	Barbara Lane	28	25 to 35

TABLE 2-2
Soil Vapor Probe Leak Testing Results
Vapor Intrusion Groundwater Investigation
Old Southington Landfill, Southington, Connecticut

									Including Inside of Probe					
Probe	**Test Date**	**Probe Diameter (in)**	**Probe Nominal Inside Diameter (in)**	**Screened Interval (ft)**	**Depth (ft)**	**Depth of Seal (ft)**	**Purge Rate (l/min)**	**GW Depth (ft)**	**Air Volume (ft3)**	**Air Volume for 1 Exchange (L)**	**Air Exchange Time for 3 Volumes (min)**	**Time Started Purging**	**Time Ended Purging**	**Pass OR Fail**
Chuck & Eddies														
CE-SV-01	5/26/11	1	1.049	2.5 - 3.5	3.5	2	0.4	NA	0.02	0.59	4	10:30	10:34	Fail
CE-SV-02	5/26/11	1	1.049	2.2 - 3.2	3.2	1.7	0.4	NA	0.02	0.54	4	9:25	9:32	Pass
CE-SV-01	5/27/11	1	1.049	2.5 - 3.5	3.5	2	0.4	NA	0.02	0.59	4	9:15	9:19	Fail
CE-SV-02	5/27/11	1	1.049	2.2 - 3.2	3.2	1.7	0.4	NA	0.02	0.54	4	9:35	9:42	Pass
CE-SV-01	6/4/11	1	1.049	2.5 - 3.5	3.5	2	0.4	NA	0.02	0.59	4	NA	NA	Fail
CE-SV-02	6/4/11	1	1.049	2.2 - 3.2	3.2	1.7	0.4	NA	0.02	0.54	4	NA	NA	Pass
CE-SV-01	6/15/11	1	1.049	2.5 - 3.5	3.5	2	0.4	NA	0.02	0.59	4	NA	NA	Pass
CE-SV-02	6/15/11	1	1.049	2.2 - 3.2	3.2	1.7	0.4	NA	0.02	0.54	4	NA	NA	Pass
Radio Station														
RS-SV-01	5/26/11	1	1.049	1.5 - 2.5	2.5	1	0.4	NA	0.02	0.42	3	11:28	11:35	Fail
RS-SV-02	5/26/11	1	1.049	1.5 - 2.5	2.5	1	0.4	NA	0.02	0.42	3	11:48	11:53	Pass
RS-SV-01	5/27/11	1	1.049	1.5 - 2.5	2.5	1	0.4	NA	0.02	0.42	3	10:55	10:57	Fail
RS-SV-01	6/4/11	1	1.049	1.5 - 2.5	2.5	1	0.4	NA	0.02	0.42	3	NA	NA	Pass
RS-SV-02	6/4/11	1	1.049	1.5 - 2.5	2.5	1	0.4	NA	0.02	0.42	3	NA	NA	Pass
RS-SV-01	6/10/11	1	1.049	1.5 - 2.5	2.5	1	0.4	NA	0.02	0.42	3	NA	NA	Pass
RS-SV-02	6/10/11	1	1.049	1.5 - 2.5	2.5	1	0.4	NA	0.02	0.42	3	NA	NA	Pass

Notes:
ft = feet, in = inches, l/min = liters per minute, ft3 = cubic feet, L = Liter, min = minute

Table 3-1
SUMMARY OF GROUNDWATER SAMPLING AND ANALYTICAL INFORMATION
Old Southington Landfill, Southington, CT - Vapor Intrusion Groundwater Monitoring Report

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Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
CB-MW-01	1230188	6/15/2011	3.00 - 13.00	GWS	X							
CB-MW-01	1246253	6/15/2011	3.00 - 13.00	GWS	X f							
CB-MW-01	1230175	6/15/2011	3.00 - 13.00	GWS	X							
CB-MW-01	1239900	9/13/2011	3.00 - 13.00	GWS	X							
CB-MW-01	1239906	9/13/2011	3.00 - 13.00	GWS	X							
CB-MW-01	1246255	12/12/2011	3.00 - 13.00	GWS	X f							
CB-MW-01	1246260	12/12/2011	3.00 - 13.00	GWS	x							
CB-MW-01	1253652	3/15/2012	3.00 - 13.00	GWS	x							
CB-MW-02	1230184	6/15/2011	7.00 - 17.00	GWS	x							
CB-MW-02	1246254	6/15/2011	7.00 - 17.00	GWS	X f							
CB-MW-02	1230189	6/15/2011	7.00 - 17.00	GWS	X							
CB-MW-02	1239898	9/13/2011	7.00 - 17.00	GWS	x							
CB-MW-02	1246259	12/12/2011	7.00 - 17.00	GWS	x							
CB-MW-02	1253651	3/15/2012	7.00 - 17.00	GWS	x							
CB-MW-03	1230180	6/15/2011	8.00 - 18.00	GWS	X							
CB-MW-03	1246274	6/15/2011	8.00 - 18.00	GWS	X f							
CB-MW-03	1230194	6/15/2011	8.00 - 18.00	GWS	X							
CB-MW-03	1239899	9/13/2011	8.00 - 18.00	GWS	x							
CB-MW-03	1246257	12/12/2011	8.00 - 18.00	GWS	X f							
CB-MW-03	1246258	12/12/2011	8.00 - 18.00	GWS	x							
CB-MW-03	1253650	3/15/2012	8.00 - 18.00	GWS	x							
CB-MW-04	1230181	6/15/2011	4.00 - 14.00	GWS	X							
CB-MW-04	1239901	9/13/2011	4.00 - 14.00	GWS	X							
CB-MW-04	1239910	9/13/2011	4.00 - 14.00	GWS	X							
CB-MW-04	1246256	12/12/2011	4.00 - 14.00	GWS	X f							
CB-MW-04	1246264	12/12/2011	4.00 - 14.00	GWS	X							
CB-MW-04	1253654	3/15/2012	4.00 - 14.00	GWS	X							
CB-MW-05	1230185	6/15/2011	4.00 - 14.00	GWS	X							
CB-MW-05	1239905	9/13/2011	4.00 - 14.00	GWS	X							
CB-MW-05	1246263	12/12/2011	4.00 - 14.00	GWS	X							
CB-MW-05	1246266	12/12/2011	4.00 - 14.00	GWS	X							
CB-MW-05	1253646	3/15/2012	4.00 - 14.00	GWS	x							
CB-MW-05	1253655	3/15/2012	4.00 - 14.00	GWS	X							
CB-MW-06	1230183	6/15/2011	4.00 - 14.00	GWS	x							

X = Constituent(s) detected; x = Constituent(s) not detected; f = filtered sample; GWS = Groundwater Sample

Table 3-1
SUMMARY OF GROUNDWATER SAMPLING AND ANALYTICAL INFORMATION
Old Southington Landfill, Southington, CT - Vapor Intrusion Groundwater Monitoring Report

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Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides	PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
CB-MW-06	1230192	6/15/2011	4.00 - 14.00	GWS	x							
CB-MW-06	1239907	9/13/2011	4.00 - 14.00	GWS	x							
CB-MW-06	1246262	12/12/2011	4.00 - 14.00	GWS	x							
CB-MW-06	1253656	3/15/2012	4.00 - 14.00	GWS	x							
CB-MW-07	1230186	6/16/2011	23.00 - 33.00	GWS	X							
CB-MW-07	1239902	9/13/2011	23.00 - 33.00	GWS	x							
CB-MW-07	1246261	12/12/2011	23.00 - 33.00	GWS	x							
CB-MW-07	1253657	3/15/2012	23.00 - 33.00	GWS	x							
CB-MW-08	1230182	6/16/2011	25.00 - 35.00	GWS	x							
CB-MW-08	1239903	9/13/2011	25.00 - 35.00	GWS	x							
CB-MW-08	1246265	12/12/2011	25.00 - 35.00	GWS	x							
CB-MW-08	1253658	3/15/2012	25.00 - 35.00	GWS	x							
SDW-9A	1230187	6/16/2011	2.00 - 12.00	GWS	x							
SDW-9A	1239904	9/14/2011	2.00 - 12.00	GWS	x							
SDW-9A	1246268	12/12/2011	2.00 - 12.00	GWS	x							
SDW-9A	1253660	3/15/2012	2.00 - 12.00	GWS	x							

X = Constituent(s) detected; x = Constituent(s) not detected; f = filtered sample; GWS = Groundwater Sample

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01
	Sample ID	1230175	1230188	1246253	1239900	1239906	1246255	1246260
	Sample Date	06/15/2011	06/15/2011	06/15/2011	09/13/2011	09/13/2011	12/12/2011	12/12/2011
	Sample Time	15:25	11:10	15:20	13:45	13:45	14:43	14:42
	Sample Depth	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-3	220-15753-1	220-15753-2	220-16485-7	220-16485-6	360-38116-3	360-38116-2
Constituent	Units							
Depth of Well	Ft	15.20	15.20	15.20	15.07	15.07	15.06	15.06
Depth to Water	Ft	5.75	5.75	5.75	4.48	4.48	4.59	4.59
Oxygen, Dissolved (field)	mg/L						0.44	0.44
Specific Conductivity (field)	uS/cm						1726	1726
Temperature	C						11.5	11.5
Turbidity (field)	NTU						>1000	>1000
Water Elevation	Ft							
pH (field measurement)	SU						6.23	6.23
Date Organics Analyzed	-	06/17/2011	06/17/2011	06/17/2011	09/14/2011	09/14/2011	12/14/2011	12/14/2011
Oxidation-Reduction Potential	mV						106.3	106.3
Naphthalene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<0.5 U*	<2.0 U	<2.0 U
1,2-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Acetone	ug/L	6.1	3.6	6.5	38 *	2 *	<10 U	<10 U
Acrylonitrile	ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	<0.50 U	<0.50 U
Benzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,2,3-Trichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<0.5 U*	<1.0 U	<1.0 U
1,2,4-Trichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<0.5 U*	<1.0 U	<1.0 U
1,2,4-Trimethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,2-Dichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,3,5-Trimethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,3-Dichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,4-Dichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Bromobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Chlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Ethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Isopropylbenzene (Cumene)	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
n-Propylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
sec-Butylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01
	Sample ID	1230175	1230188	1246253	1239900	1239906	1246255	1246260
	Sample Date	06/15/2011	06/15/2011	06/15/2011	09/13/2011	09/13/2011	12/12/2011	12/12/2011
	Sample Time	15:25	11:10	15:20	13:45	13:45	14:43	14:42
	Sample Depth	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-3	220-15753-1	220-15753-2	220-16485-7	220-16485-6	360-38116-3	360-38116-2
Constituent	Units							
tert-Butylbenzene	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U
Hexachlorobutadiene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<0.5 U*	<0.50 U	<0.50 U
2-Butanone (MEK)	ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U
trans-1,4-Dichloro-2-Butene	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U*	<1.0 U*
Carbon Disulfide	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U*	<0.50 U*
Carbon Tetrachloride	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U*	<0.50 U*
4-Isopropyltoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Dichlorodifluoromethane	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<0.50 U	<0.50 U
1,1,1,2-Tetrachloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1,1-Trichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1,2,2-Tetrachloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1,2-Trichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U
1,1-Dichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Ethylene Dibromide	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U
1,2-Dichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Chloroethane	ug/L	<1 U*	<1 U*	<1 U*	<1 U	<1 U	<0.50 U	<0.50 U
Methyl tert-Butyl ether	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
trans-1,2-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Vinyl Chloride	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Tetrachloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Tetrahydrofuran	ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U
Hexanone, 2-	ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U
Bromomethane	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U
Bromodichloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Chloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Dibromochloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01	CB-MW-01
	Sample ID	1230175	1230188	1246253	1239900	1239906	1246255	1246260
	Sample Date	06/15/2011	06/15/2011	06/15/2011	09/13/2011	09/13/2011	12/12/2011	12/12/2011
	Sample Time	15:25	11:10	15:20	13:45	13:45	14:43	14:42
	Sample Depth	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-3	220-15753-1	220-15753-2	220-16485-7	220-16485-6	360-38116-3	360-38116-2
Constituent	Units							
Methylene Dibromide	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Methylene Chloride	ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	<2.0 U	<2.0 U
Bromoform	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Chloroform	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Trichlorofluoromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Methyl Isobutyl ketone	ug/L	<2 U	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U
1,2,3-Trichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<5.0 U
1,3-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
sec-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U
1,1-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
trans-1,3-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
cis-1,3-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.40 U	<0.40 U
Styrene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Toluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	2.7	<0.50 U
2-Chlorotoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
4-Chlorotoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Trichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
o-Xylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Xylenes, Total	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U
Xylenes,m- & p-	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U
cis-1,2-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
n-Butylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
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Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-01	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02
	Sample ID	1253652	1230184	1230189	1246254	1239898	1246259	1253651
	Sample Date	03/15/2012	06/15/2011	06/15/2011	06/15/2011	09/13/2011	12/12/2011	03/15/2012
	Sample Time	11:05	10:56	15:35	15:30	10:21	12:26	10:20
	Sample Depth	3.00' - 13.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	360-39595-3	220-15753-4	220-15753-6	220-15753-5	220-16485-1	360-38116-4	360-39595-2
Constituent	Units							
Depth of Well	Ft	15.29	16.93	16.93	16.93	16.95	17.11	17.11
Depth to Water	Ft	4.94	8.98	8.98	8.98	8.62	8.27	9.07
Oxygen, Dissolved (field)	mg/L	.33	4.78		4.78	3.11	4.24	5.67
Specific Conductivity (field)	uS/cm	712	298.6		298.6	408.2	1837	224
Temperature	C	7.63	22.3		22.3	20.3	13.1	8.78
Turbidity (field)	NTU	312	37.2		37.2	4.42	3.9	5.30
Water Elevation	Ft							
pH (field measurement)	SU	5.78	7.22		7.22	7.47	7.17	7.28
Date Organics Analyzed	-	03/21/2012	06/17/2011	06/17/2011	06/17/2011	09/14/2011	12/14/2011	03/21/2012
Oxidation-Reduction Potential	mV	10.1	30.4		30.4	145.2	387.9	203.1
Naphthalene	ug/L	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<2.0 U	<5.0 U
1,2-Dichloropropane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Acetone	ug/L	<10 U	<2 U	9.4	12	<2 U*	<10 U	<10 U
Acrylonitrile	ug/L	<0.50 U	<2 U	<2 U	<2 U	<2 U	<0.50 U	<0.50 U
Benzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,2,3-Trichlorobenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<1.0 U	<0.50 U
1,2,4-Trichlorobenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<1.0 U	<0.50 U
1,2,4-Trimethylbenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,2-Dichlorobenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,3,5-Trimethylbenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,3-Dichlorobenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,4-Dichlorobenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Bromobenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Chlorobenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Ethylbenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	1	<0.5 U	<0.50 U	<0.50 U
Isopropylbenzene (Cumene)	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
n-Propylbenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
sec-Butylbenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-01	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02
	Sample ID	1253652	1230184	1230189	1246254	1239898	1246259	1253651
	Sample Date	03/15/2012	06/15/2011	06/15/2011	06/15/2011	09/13/2011	12/12/2011	03/15/2012
	Sample Time	11:05	10:56	15:35	15:30	10:21	12:26	10:20
	Sample Depth	3.00' - 13.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	360-39595-3	220-15753-4	220-15753-6	220-15753-5	220-16485-1	360-38116-4	360-39595-2
Constituent	Units							
tert-Butylbenzene	ug/L	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U
Hexachlorobutadiene	ug/L	<0.40 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<0.50 U	<0.40 U
2-Butanone (MEK)	ug/L	<5.0 U	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U
trans-1,4-Dichloro-2-Butene	ug/L	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1.0 U*	<1.0 U
Carbon Disulfide	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U*	<0.50 U
Carbon Tetrachloride	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U*	<0.50 U
4-Isopropyltoluene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Dichlorodifluoromethane	ug/L	<1.0 U*	<1 U	<1 U	<1 U	<1 U	<0.50 U	<1.0 U*
1,1,1,2-Tetrachloroethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1,1-Trichloroethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1,2,2-Tetrachloroethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1,2-Trichloroethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U
1,1-Dichloroethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Ethylene Dibromide	ug/L	<1.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U
1,2-Dichloroethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Chloroethane	ug/L	<1.0 U	<1 U*	<1 U*	<1 U*	<1 U	<0.50 U	<1.0 U
Methyl tert-Butyl ether	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,1-Dichloroethylene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
trans-1,2-Dichloroethylene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Vinyl Chloride	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Tetrachloroethylene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Tetrahydrofuran	ug/L	<5.0 U	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U
Hexanone, 2-	ug/L	<5.0 U	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U
Bromomethane	ug/L	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U
Bromodichloromethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Chloromethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Dibromochloromethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-01	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02	CB-MW-02
	Sample ID	1253652	1230184	1230189	1246254	1239898	1246259	1253651
	Sample Date	03/15/2012	06/15/2011	06/15/2011	06/15/2011	09/13/2011	12/12/2011	03/15/2012
	Sample Time	11:05	10:56	15:35	15:30	10:21	12:26	10:20
	Sample Depth	3.00' - 13.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	360-39595-3	220-15753-4	220-15753-6	220-15753-5	220-16485-1	360-38116-4	360-39595-2
Constituent	Units							
Methylene Dibromide	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Methylene Chloride	ug/L	<2.0 U	<2 U	<2 U	<2 U	<2 U	<2.0 U	<2.0 U
Bromoform	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Chloroform	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Trichlorofluoromethane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Methyl Isobutyl ketone	ug/L	<5.0 U	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U
1,2,3-Trichloropropane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	<5.0 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<5.0 U
1,3-Dichloropropane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
sec-Dichloropropane	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<0.50 U
1,1-Dichloropropene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
trans-1,3-Dichloropropene	ug/L	<0.40 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.40 U
cis-1,3-Dichloropropene	ug/L	<0.40 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.40 U	<0.40 U
Styrene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Toluene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
2-Chlorotoluene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
4-Chlorotoluene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Trichloroethylene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
o-Xylene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
Xylenes, Total	ug/L	<1.0 U	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U
Xylenes,m- & p-	ug/L	<2.0 U	<1 U	<1 U	<1 U	<1 U	<1.0 U	<2.0 U
cis-1,2-Dichloroethylene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
n-Butylbenzene	ug/L	<0.50 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U
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Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03
	Sample ID	1230180	1230194	1246274	1239899	1246257	1246258	1253650
	Sample Date	06/15/2011	06/15/2011	06/15/2011	09/13/2011	12/12/2011	12/12/2011	03/15/2012
	Sample Time	11:30	15:45	15:40	10:21	10:53	10:52	09:45
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-7	220-15753-9	220-15753-8	220-16485-8	360-38116-6	360-38116-5	360-39595-1
Constituent	Units							
Depth of Well	Ft	18.42	18.42	18.42	15.89	18.01	18.01	18.10
Depth to Water	Ft	10.98	10.98	10.98	9.97	9.54	9.54	10.46
Oxygen, Dissolved (field)	mg/L	3.42	3.42	3.42	4.00	1.20	1.20	6.36
Specific Conductivity (field)	uS/cm	355.7	355.7	355.7	333.2	1324	1324	863
Temperature	C	18.2	18.2	18.2	16.6	11.6	11.6	8.79
Turbidity (field)	NTU				4.46	>1000	>1000	4.87
Water Elevation	Ft							
pH (field measurement)	SU	7.33	7.33	7.33	6.85	4.78	4.78	6.76
Date Organics Analyzed	-	06/17/2011	06/17/2011	06/17/2011	09/14/2011	12/14/2011	12/14/2011	03/21/2012
Oxidation-Reduction Potential	mV	-38.7	-38.7	-38.7	71.2	441.2	441.2	104.9
Naphthalene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<2.0 U	<2.0 U	<5.0 U
1,2-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Acetone	ug/L	2.4	3.9	15	<2 U*	<10 U	<10 U	<10 U
Acrylonitrile	ug/L	<2 U	<2 U	<2 U	<2 U	<0.50 U	<0.50 U	<0.50 U
Benzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,2,3-Trichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<1.0 U	<1.0 U	<0.50 U
1,2,4-Trichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<1.0 U	<1.0 U	<0.50 U
1,2,4-Trimethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,2-Dichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,3,5-Trimethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,3-Dichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,4-Dichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Bromobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Chlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Ethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Isopropylbenzene (Cumene)	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
n-Propylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
sec-Butylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03
	Sample ID	1230180	1230194	1246274	1239899	1246257	1246258	1253650
	Sample Date	06/15/2011	06/15/2011	06/15/2011	09/13/2011	12/12/2011	12/12/2011	03/15/2012
	Sample Time	11:30	15:45	15:40	10:21	10:53	10:52	09:45
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-7	220-15753-9	220-15753-8	220-16485-8	360-38116-6	360-38116-5	360-39595-1
Constituent	Units							
tert-Butylbenzene	ug/L	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U
Hexachlorobutadiene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U*	<0.50 U	<0.50 U	<0.40 U
2-Butanone (MEK)	ug/L	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U	<5.0 U
trans-1,4-Dichloro-2-Butene	ug/L	<1 U	<1 U	<1 U	<1 U	<1.0 U*	<1.0 U*	<1.0 U
Carbon Disulfide	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U*	<0.50 U*	<0.50 U
Carbon Tetrachloride	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U*	<0.50 U*	<0.50 U
4-Isopropyltoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Dichlorodifluoromethane	ug/L	<1 U	<1 U	<1 U	<1 U	<0.50 U	<0.50 U	<1.0 U*
1,1,1,2-Tetrachloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,1,1-Trichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,1,2,2-Tetrachloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-Trichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U	<1.0 U
1,1-Dichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Ethylene Dibromide	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U	<1.0 U
1,2-Dichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Chloroethane	ug/L	<1 U*	<1 U*	<1 U*	<1 U	<0.50 U	<0.50 U	<1.0 U
Methyl tert-Butyl ether	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,1-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
trans-1,2-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Vinyl Chloride	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Tetrachloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Tetrahydrofuran	ug/L	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U	<5.0 U
Hexanone, 2-	ug/L	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U	<5.0 U
Bromomethane	ug/L	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U
Bromodichloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Chloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Dibromochloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03	CB-MW-03
	Sample ID	1230180	1230194	1246274	1239899	1246257	1246258	1253650
	Sample Date	06/15/2011	06/15/2011	06/15/2011	09/13/2011	12/12/2011	12/12/2011	03/15/2012
	Sample Time	11:30	15:45	15:40	10:21	10:53	10:52	09:45
	Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-7	220-15753-9	220-15753-8	220-16485-8	360-38116-6	360-38116-5	360-39595-1
Constituent	Units							
Methylene Dibromide	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Methylene Chloride	ug/L	<2 U	<2 U	<2 U	<2 U	<2.0 U	<2.0 U	<2.0 U
Bromoform	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Chloroform	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Trichlorofluoromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Methyl Isobutyl ketone	ug/L	<2 U	<2 U	<2 U	<2 U	<5.0 U	<5.0 U	<5.0 U
1,2,3-Trichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<5.0 U	<5.0 U
1,3-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
sec-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U	<0.50 U
1,1-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
trans-1,3-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.40 U
cis-1,3-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.40 U	<0.40 U	<0.40 U
Styrene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Toluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	3.4	<0.50 U	<0.50 U
2-Chlorotoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
4-Chlorotoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Trichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
o-Xylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
Xylenes, Total	ug/L	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U
Xylenes,m- & p-	ug/L	<1 U	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<2.0 U
cis-1,2-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
n-Butylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U
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Table 3-3
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Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-05
	Sample ID	1230181	1239901	1239910	1246256	1246264	1253654	1230185
	Sample Date	06/15/2011	09/13/2011	09/13/2011	12/12/2011	12/12/2011	03/15/2012	06/15/2011
	Sample Time	15:10	13:26	13:26	13:17	13:16	13:40	14:26
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-11	220-16485-2	220-16485-3	360-38116-8	360-38116-7	360-39595-4	220-15753-13
Constituent	Units							
Depth of Well	Ft	17.41	16.95	16.95	16.90	16.90	17.08	16.92
Depth to Water	Ft	7.73	7.45	7.45	7.01	7.01	7.87	9.11
Oxygen, Dissolved (field)	mg/L	0.69	0.23	0.23	0.50	0.50	0.20	0.22
Specific Conductivity (field)	uS/cm	884	702	702	1109	1109	1176	842
Temperature	C	16.2	20.4	20.4	12.4	12.4	10.12	12.9
Turbidity (field)	NTU	73.4	4.62	4.62	32.1	32.1	5.13	3.77
Water Elevation	Ft							
pH (field measurement)	SU	6.95	6.94	6.94	7.25	7.25	6.47	6.70
Date Organics Analyzed	-	06/17/2011	09/14/2011	09/14/2011	12/14/2011	12/14/2011	03/21/2012	06/17/2011
Oxidation-Reduction Potential	mV	-44.5	-6.3	-6.3	-70.3	-70.3	-42.0	104.9
Naphthalene	ug/L	<0.5 U	<0.5 U*	<0.5 U*	<2.0 U	<2.0 U	<5.0 U	<0.5 U
1,2-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Acetone	ug/L	<2 U	<2 U*	2.6 *	<10 U	<10 U	<10 U	<2 U
Acrylonitrile	ug/L	<2 U	<2 U	<2 U	<0.50 U	<0.50 U	<0.50 U	<2 U
Benzene	ug/L	0.89	<0.5 U	<0.5 U	<0.50 U	<0.50 U	0.51	<0.5 U
1,2,3-Trichlorobenzene	ug/L	<0.5 U	<0.5 U*	<0.5 U*	<1.0 U	<1.0 U	<0.50 U	<0.5 U
1,2,4-Trichlorobenzene	ug/L	<0.5 U	<0.5 U*	<0.5 U*	<1.0 U	<1.0 U	<0.50 U	<0.5 U
1,2,4-Trimethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,2-Dichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,3,5-Trimethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,3-Dichlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,4-Dichlorobenzene	ug/L	0.54	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Bromobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Chlorobenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Ethylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Isopropylbenzene (Cumene)	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
n-Propylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
sec-Butylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-05
	Sample ID	1230181	1239901	1239910	1246256	1246264	1253654	1230185
	Sample Date	06/15/2011	09/13/2011	09/13/2011	12/12/2011	12/12/2011	03/15/2012	06/15/2011
	Sample Time	15:10	13:26	13:26	13:17	13:16	13:40	14:26
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-11	220-16485-2	220-16485-3	360-38116-8	360-38116-7	360-39595-4	220-15753-13
Constituent	Units							
tert-Butylbenzene	ug/L	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1 U
Hexachlorobutadiene	ug/L	<0.5 U	<0.5 U*	<0.5 U*	<0.50 U	<0.50 U	<0.40 U	<0.5 U
2-Butanone (MEK)	ug/L	<2 U	<2 U	<2 U	<5.0 U	<5.0 U	<5.0 U	<2 U
trans-1,4-Dichloro-2-Butene	ug/L	<1 U	<1 U	<1 U	<1.0 U*	<1.0 U*	<1.0 U	<1 U
Carbon Disulfide	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U*	<0.50 U*	<0.50 U	<0.5 U
Carbon Tetrachloride	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U*	<0.50 U*	<0.50 U	<0.5 U
4-Isopropyltoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Dichlorodifluoromethane	ug/L	<1 U	<1 U	<1 U	<0.50 U	<0.50 U	<1.0 U*	<1 U
1,1,1,2-Tetrachloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,1,1-Trichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,1,2,2-Tetrachloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,1,2-Trichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U	<1.0 U	<0.5 U
1,1-Dichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	0.68
Ethylene Dibromide	ug/L	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U	<1.0 U	<0.5 U
1,2-Dichloroethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Chloroethane	ug/L	<1 U*	<1 U	<1 U	<0.50 U	<0.50 U	<1.0 U	<1 U*
Methyl tert-Butyl ether	ug/L	0.96	1.3	1.3	1.9	2.0	1.3	0.51
1,1-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
trans-1,2-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Vinyl Chloride	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	1.8	2.2	<0.5 U
Tetrachloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Tetrahydrofuran	ug/L	<2 U	<2 U	<2 U	<5.0 U	<5.0 U	<5.0 U	<2 U
Hexanone, 2-	ug/L	<2 U	<2 U	<2 U	<5.0 U	<5.0 U	<5.0 U	<2 U
Bromomethane	ug/L	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1 U
Bromodichloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Chloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Dibromochloromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-04	CB-MW-05
	Sample ID	1230181	1239901	1239910	1246256	1246264	1253654	1230185
	Sample Date	06/15/2011	09/13/2011	09/13/2011	12/12/2011	12/12/2011	03/15/2012	06/15/2011
	Sample Time	15:10	13:26	13:26	13:17	13:16	13:40	14:26
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15753-11	220-16485-2	220-16485-3	360-38116-8	360-38116-7	360-39595-4	220-15753-13
Constituent	Units							
Methylene Dibromide	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Methylene Chloride	ug/L	<2 U	<2 U	<2 U	<2.0 U	<2.0 U	<2.0 U	<2 U
Bromoform	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Chloroform	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Trichlorofluoromethane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Methyl Isobutyl ketone	ug/L	<2 U	<2 U	<2 U	<5.0 U	<5.0 U	<5.0 U	<2 U
1,2,3-Trichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
1,2-Dibromo-3-Chloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<5.0 U	<5.0 U	<5.0 U	<0.5 U
1,3-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
sec-Dichloropropane	ug/L	<0.5 U	<0.5 U	<0.5 U	<1.0 U	<1.0 U	<0.50 U	<0.5 U
1,1-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
trans-1,3-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.40 U	<0.5 U
cis-1,3-Dichloropropene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.40 U	<0.40 U	<0.40 U	<0.5 U
Styrene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Toluene	ug/L	<0.5 U	<0.5 U	<0.5 U	2.4	<0.50 U	<0.50 U	<0.5 U
2-Chlorotoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
4-Chlorotoluene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Trichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	0.56	<0.5 U
o-Xylene	ug/L	2	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
Xylenes, Total	ug/L	2	<1 U	<1 U	<1.0 U	<1.0 U	<1.0 U	<1 U
Xylenes,m- & p-	ug/L	<1 U	<1 U	<1 U	<1.0 U	<1.0 U	<2.0 U	<1 U
cis-1,2-Dichloroethylene	ug/L	<0.5 U	<0.5 U	<0.5 U	1.1	5.1	7.7	<0.5 U
n-Butylbenzene	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U
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Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
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	Location ID	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-06	CB-MW-06
	Sample ID	1239905	1246263	1246266	1253646	1253655	1230183	1230192
	Sample Date	09/13/2011	12/12/2011	12/12/2011	03/15/2012	03/15/2012	06/15/2011	06/15/2011
	Sample Time	15:21	12:36	12:36	13:40	13:40	14:25	14:25
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-16485-9	360-38116-11	360-38116-12	360-39595-10	360-39595-5	220-15753-12	220-15753-14
Constituent	Units							
Depth of Well	Ft	16.98	16.78	16.78	17.10	17.10	17.15	
Depth to Water	Ft	8.84	8.39	8.39	9.31	9.31	11.98	
Oxygen, Dissolved (field)	mg/L	2.37	0.87	0.87	0.67	0.67	6.56	6.56
Specific Conductivity (field)	uS/cm	751	761	761	609	609	125	125
Temperature	C	19.7	11.9	11.9	10.98	10.98	15.9	15.9
Turbidity (field)	NTU	5.42	4.67	4.67	59.8	59.8	4.71	4.71
Water Elevation	Ft							
pH (field measurement)	SU	7.15	6.73	6.73	6.72	6.72	6.64	6.64
Date Organics Analyzed	-	09/14/2011	12/14/2011	12/14/2011	03/21/2012	03/21/2012	06/17/2011	06/17/2011
Oxidation-Reduction Potential	mV	-47.1	129.1	129.1	189.3	189.3	169.1	169.1
Naphthalene	ug/L	<0.5 U*	<2.0 U	<2.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U
1,2-Dichloropropane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Acetone	ug/L	<2 U*	<10 U	<10 U	<10 U	<10 U	<2 U	<2 U
Acrylonitrile	ug/L	<2 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<2 U	<2 U
Benzene	ug/L	0.95	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,2,3-Trichlorobenzene	ug/L	<0.5 U*	<1.0 U	<1.0 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,2,4-Trichlorobenzene	ug/L	<0.5 U*	<1.0 U	<1.0 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,2,4-Trimethylbenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,2-Dichlorobenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,3,5-Trimethylbenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,3-Dichlorobenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,4-Dichlorobenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Bromobenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Chlorobenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Ethylbenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Isopropylbenzene (Cumene)	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
n-Propylbenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
sec-Butylbenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
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	Location ID	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-06	CB-MW-06
	Sample ID	1239905	1246263	1246266	1253646	1253655	1230183	1230192
	Sample Date	09/13/2011	12/12/2011	12/12/2011	03/15/2012	03/15/2012	06/15/2011	06/15/2011
	Sample Time	15:21	12:36	12:36	13:40	13:40	14:25	14:25
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-16485-9	360-38116-11	360-38116-12	360-39595-10	360-39595-5	220-15753-12	220-15753-14
Constituent	Units							
tert-Butylbenzene	ug/L	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U
Hexachlorobutadiene	ug/L	<0.5 U*	<0.50 U	<0.50 U	<0.40 U	<0.40 U	<0.5 U	<0.5 U
2-Butanone (MEK)	ug/L	<2 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<2 U	<2 U
trans-1,4-Dichloro-2-Butene	ug/L	<1 U	<1.0 U*	<1.0 U*	<1.0 U	<1.0 U	<1 U	<1 U
Carbon Disulfide	ug/L	<0.5 U	<0.50 U*	<0.50 U*	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Carbon Tetrachloride	ug/L	<0.5 U	<0.50 U*	<0.50 U*	<0.50 U	<0.50 U	<0.5 U	<0.5 U
4-Isopropyltoluene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Dichlorodifluoromethane	ug/L	<1 U	<0.50 U	<0.50 U	<1.0 U*	<1.0 U*	<1 U	<1 U
1,1,1,2-Tetrachloroethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,1,1-Trichloroethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,1,2,2-Tetrachloroethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,1,2-Trichloroethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	<0.5 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<0.5 U	<0.5 U
1,1-Dichloroethane	ug/L	<0.5 U	0.56	<0.50 U	<0.50 U	0.63	<0.5 U	<0.5 U
Ethylene Dibromide	ug/L	<0.5 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<0.5 U	<0.5 U
1,2-Dichloroethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Chloroethane	ug/L	<1 U	<0.50 U	<0.50 U	<1.0 U	<1.0 U	<1 U*	<1 U*
Methyl tert-Butyl ether	ug/L	0.65	0.53	0.53	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,1-Dichloroethylene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
trans-1,2-Dichloroethylene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Vinyl Chloride	ug/L	3.7	3.8	3.5	<0.50 U	2.2	<0.5 U	<0.5 U
Tetrachloroethylene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Tetrahydrofuran	ug/L	<2 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<2 U	<2 U
Hexanone, 2-	ug/L	<2 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<2 U	<2 U
Bromomethane	ug/L	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U
Bromodichloromethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Chloromethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Dibromochloromethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-06	CB-MW-06
	Sample ID	1239905	1246263	1246266	1253646	1253655	1230183	1230192
	Sample Date	09/13/2011	12/12/2011	12/12/2011	03/15/2012	03/15/2012	06/15/2011	06/15/2011
	Sample Time	15:21	12:36	12:36	13:40	13:40	14:25	14:25
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-16485-9	360-38116-11	360-38116-12	360-39595-10	360-39595-5	220-15753-12	220-15753-14
Constituent	Units							
Methylene Dibromide	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Methylene Chloride	ug/L	<2 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2 U	<2 U
Bromoform	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Chloroform	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Trichlorofluoromethane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Methyl Isobutyl ketone	ug/L	<2 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<2 U	<2 U
1,2,3-Trichloropropane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,2-Dibromo-3-Chloropropane	ug/L	<0.5 U	<5.0 U	<5.0 U	<5.0 U	<5.0 U	<0.5 U	<0.5 U
1,3-Dichloropropane	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
sec-Dichloropropane	ug/L	<0.5 U	<1.0 U	<1.0 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
1,1-Dichloropropene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
trans-1,3-Dichloropropene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.40 U	<0.40 U	<0.5 U	<0.5 U
cis-1,3-Dichloropropene	ug/L	<0.5 U	<0.40 U	<0.40 U	<0.40 U	<0.40 U	<0.5 U	<0.5 U
Styrene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Toluene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
2-Chlorotoluene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
4-Chlorotoluene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Trichloroethylene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
o-Xylene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
Xylenes, Total	ug/L	<1 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1 U
Xylenes,m- & p-	ug/L	<1 U	<1.0 U	<1.0 U	<2.0 U	<2.0 U	<1 U	<1 U
cis-1,2-Dichloroethylene	ug/L	0.51	0.55	0.54	<0.50 U	<0.50 U	<0.5 U	<0.5 U
n-Butylbenzene	ug/L	<0.5 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.5 U
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Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-06	CB-MW-06	CB-MW-06	CB-MW-07	CB-MW-07	CB-MW-07	CB-MW-07
	Sample ID	1239907	1246262	1253656	1230186	1239902	1246261	1253657
	Sample Date	09/13/2011	12/12/2011	03/15/2012	06/16/2011	09/13/2011	12/12/2011	03/15/2012
	Sample Time	17:16	10:36	14:32	11:45	15:46	15:56	15:20
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	23.00' - 33.0	23.00' - 33.0	23.00' - 33.0	23.00' - 33.0
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-16498-17	360-38116-9	360-39595-6	220-15779-4	220-16485-10	360-38116-1	360-39595-7
Constituent	Units							
Depth of Well	Ft	16.99	16.95	17.68	33.05	33.05	33.27	33.25
Depth to Water	Ft	11.53	9.87	12.75	25.53	25.02	24.68	25.11
Oxygen, Dissolved (field)	mg/L	6.34	8.59	4.89	10.30	8.77	9.06	12.43
Specific Conductivity (field)	uS/cm	95.2	85.7	38	484	693	1551	723
Temperature	C	19.5	9.5	9.60	18.6	15.9	14.5	13.45
Turbidity (field)	NTU	4.23	1.12	6.20	2.95	3.3	3.6	2.38
Water Elevation	Ft							
pH (field measurement)	SU	5.99	6.83	5.14	7.72	7.16	7.45	7.36
Date Organics Analyzed	-	09/15/2011	12/14/2011	03/21/2012	06/21/2011	09/14/2011	12/14/2011	03/21/2012
Oxidation-Reduction Potential	mV	282.7	-135.9	71.4	133.9	63.9	222.3	213.9
Naphthalene	ug/L	<0.50 U*	<2.0 U	<5.0 U	<0.50 U*	<0.5 U*	<2.0 U	<5.0 U
1,2-Dichloropropane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Acetone	ug/L	<2.0 U*	<10 U	<10 U	<2.0 U	<2 U*	<10 U	<10 U
Acrylonitrile	ug/L	<2.0 U	<0.50 U	<0.50 U	<2.0 U	<2 U	<0.50 U	<0.50 U
Benzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,2,3-Trichlorobenzene	ug/L	<0.50 U*	<1.0 U	<0.50 U	<0.50 U	<0.5 U*	<1.0 U	<0.50 U
1,2,4-Trichlorobenzene	ug/L	<0.50 U*	<1.0 U	<0.50 U	<0.50 U	<0.5 U*	<1.0 U	<0.50 U
1,2,4-Trimethylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,2-Dichlorobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,3,5-Trimethylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,3-Dichlorobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,4-Dichlorobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Bromobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Chlorobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Ethylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Isopropylbenzene (Cumene)	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
n-Propylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
sec-Butylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-06	CB-MW-06	CB-MW-06	CB-MW-07	CB-MW-07	CB-MW-07	CB-MW-07
	Sample ID	1239907	1246262	1253656	1230186	1239902	1246261	1253657
	Sample Date	09/13/2011	12/12/2011	03/15/2012	06/16/2011	09/13/2011	12/12/2011	03/15/2012
	Sample Time	17:16	10:36	14:32	11:45	15:46	15:56	15:20
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	23.00' - 33.0	23.00' - 33.0	23.00' - 33.0	23.00' - 33.0
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-16498-17	360-38116-9	360-39595-6	220-15779-4	220-16485-10	360-38116-1	360-39595-7
Constituent	Units							
tert-Butylbenzene	ug/L	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1.0 U	<1.0 U
Hexachlorobutadiene	ug/L	<0.50 U*	<0.50 U	<0.40 U	<0.50 U	<0.5 U*	<0.50 U	<0.40 U
2-Butanone (MEK)	ug/L	<2.0 U	<5.0 U	<5.0 U	<2.0 U	<2 U	<5.0 U	<5.0 U
trans-1,4-Dichloro-2-Butene	ug/L	<1.0 U	<1.0 U*	<1.0 U	<1.0 U	<1 U	<1.0 U*	<1.0 U
Carbon Disulfide	ug/L	<0.50 U	<0.50 U*	<0.50 U	<0.50 U*	<0.5 U	<0.50 U*	<0.50 U
Carbon Tetrachloride	ug/L	<0.50 U	<0.50 U*	<0.50 U	<0.50 U*	<0.5 U	<0.50 U*	<0.50 U
4-Isopropyltoluene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Dichlorodifluoromethane	ug/L	<1.0 U	<0.50 U	<1.0 U*	<1.0 U	<1 U	<0.50 U	<1.0 U*
1,1,1,2-Tetrachloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,1,1-Trichloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	1.1 *	<0.5 U	<0.50 U	<0.50 U
1,1,2,2-Tetrachloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,1,2-Trichloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	<0.50 U	<1.0 U	<1.0 U	<0.50 U*	<0.5 U	<1.0 U	<1.0 U
1,1-Dichloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Ethylene Dibromide	ug/L	<0.50 U	<1.0 U	<1.0 U	<0.50 U	<0.5 U	<1.0 U	<1.0 U
1,2-Dichloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Chloroethane	ug/L	<1.0 U	<0.50 U	<1.0 U	<1.0 U	<1 U	<0.50 U	<1.0 U
Methyl tert-Butyl ether	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,1-Dichloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
trans-1,2-Dichloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Vinyl Chloride	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Tetrachloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Tetrahydrofuran	ug/L	<2.0 U	<5.0 U	<5.0 U	<2.0 U	<2 U	<5.0 U	<5.0 U
Hexanone, 2-	ug/L	<2.0 U	<5.0 U	<5.0 U	<2.0 U	<2 U	<5.0 U	<5.0 U
Bromomethane	ug/L	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1.0 U	<1.0 U
Bromodichloromethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Chloromethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Dibromochloromethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-06	CB-MW-06	CB-MW-06	CB-MW-07	CB-MW-07	CB-MW-07	CB-MW-07
	Sample ID	1239907	1246262	1253656	1230186	1239902	1246261	1253657
	Sample Date	09/13/2011	12/12/2011	03/15/2012	06/16/2011	09/13/2011	12/12/2011	03/15/2012
	Sample Time	17:16	10:36	14:32	11:45	15:46	15:56	15:20
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	23.00' - 33.0	23.00' - 33.0	23.00' - 33.0	23.00' - 33.0
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-16498-17	360-38116-9	360-39595-6	220-15779-4	220-16485-10	360-38116-1	360-39595-7
Constituent	Units							
Methylene Dibromide	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Methylene Chloride	ug/L	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2 U	<2.0 U	<2.0 U
Bromoform	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Chloroform	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Trichlorofluoromethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Methyl Isobutyl ketone	ug/L	<2.0 U	<5.0 U	<5.0 U	<2.0 U	<2 U	<5.0 U	<5.0 U
1,2,3-Trichloropropane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	<0.50 U	<5.0 U	<5.0 U	<0.50 U	<0.5 U	<5.0 U	<5.0 U
1,3-Dichloropropane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
sec-Dichloropropane	ug/L	<0.50 U	<1.0 U	<0.50 U	<0.50 U	<0.5 U	<1.0 U	<0.50 U
1,1-Dichloropropene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
trans-1,3-Dichloropropene	ug/L	<0.50 U	<0.50 U	<0.40 U	<0.50 U	<0.5 U	<0.50 U	<0.40 U
cis-1,3-Dichloropropene	ug/L	<0.50 U	<0.40 U	<0.40 U	<0.50 U	<0.5 U	<0.40 U	<0.40 U
Styrene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Toluene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
2-Chlorotoluene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
4-Chlorotoluene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Trichloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
o-Xylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
Xylenes, Total	ug/L	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1 U	<1.0 U	<1.0 U
Xylenes,m- & p-	ug/L	<1.0 U	<1.0 U	<2.0 U	<1.0 U	<1 U	<1.0 U	<2.0 U
cis-1,2-Dichloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
n-Butylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.5 U	<0.50 U	<0.50 U
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Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-08	CB-MW-08	CB-MW-08	CB-MW-08	SDW-9A	SDW-9A	SDW-9A
	Sample ID	1230182	1239903	1246265	1253658	1230187	1239904	1246268
	Sample Date	06/16/2011	09/13/2011	12/12/2011	03/15/2012	06/16/2011	09/14/2011	12/12/2011
	Sample Time	10:15	18:26	16:01	15:30	13:00	12:20	12:00
	Sample Depth	25.00' - 35.0	25.00' - 35.0	25.00' - 35.0	25.00' - 35.0	2.00' - 12.00	2.00' - 12.00	2.00' - 12.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15779-1	220-16498-18	360-38116-10	360-39595-8	220-15779-5	220-16498-21	360-38116-13
Constituent	Units							
Depth of Well	Ft	34.95	34.94	34.97	35.15	13.50	13.67	13.50
Depth to Water	Ft	28.77	28.28	27.98	28.47	4.05	4.24	3.91
Oxygen, Dissolved (field)	mg/L	6.79	7.79	7.47	10.89	0.47	0.28	1.37
Specific Conductivity (field)	uS/cm	354	426.1	363.1	427	295	255.1	144
Temperature	C	18.5	17.0	11.7	12.65	17.3	18.0	9.66
Turbidity (field)	NTU	4.85	4.3	4.08	4.81	4.76	5.19	2.88
Water Elevation	Ft					144.72	144.53	144.86
pH (field measurement)	SU	7.05	6.63	6.34	6.64	5.55	4.77	5.30
Date Organics Analyzed	-	06/21/2011	09/15/2011	12/14/2011	03/21/2012	06/21/2011	09/15/2011	12/14/2011
Oxidation-Reduction Potential	mV	139.0	91.1	181.3	86.3	114.7	57.6	-75.2
Naphthalene	ug/L	<0.50 U*	<0.50 U*	<2.0 U	<5.0 U	<0.50 U*	<0.50 U*	<2.0 U
1,2-Dichloropropane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Acetone	ug/L	<2.0 U	<2.0 U*	<10 U	<10 U	<2.0 U	<2.0 U*	<10 U
Acrylonitrile	ug/L	<2.0 U	<2.0 U	<0.50 U	<0.50 U	<2.0 U	<2.0 U	<0.50 U
Benzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2,3-Trichlorobenzene	ug/L	<0.50 U	<0.50 U*	<1.0 U	<0.50 U	<0.50 U	<0.50 U*	<1.0 U
1,2,4-Trichlorobenzene	ug/L	<0.50 U	<0.50 U*	<1.0 U	<0.50 U	<0.50 U	<0.50 U*	<1.0 U
1,2,4-Trimethylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-Dichlorobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3,5-Trimethylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,3-Dichlorobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,4-Dichlorobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Bromobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Chlorobenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Ethylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Isopropylbenzene (Cumene)	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
n-Propylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
sec-Butylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

Loureiro
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	Location ID	CB-MW-08	CB-MW-08	CB-MW-08	CB-MW-08	SDW-9A	SDW-9A	SDW-9A
	Sample ID	1230182	1239903	1246265	1253658	1230187	1239904	1246268
	Sample Date	06/16/2011	09/13/2011	12/12/2011	03/15/2012	06/16/2011	09/14/2011	12/12/2011
	Sample Time	10:15	18:26	16:01	15:30	13:00	12:20	12:00
	Sample Depth	25.00' - 35.0	25.00' - 35.0	25.00' - 35.0	25.00' - 35.0	2.00' - 12.00	2.00' - 12.00	2.00' - 12.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15779-1	220-16498-18	360-38116-10	360-39595-8	220-15779-5	220-16498-21	360-38116-13
Constituent	Units							
tert-Butylbenzene	ug/L	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Hexachlorobutadiene	ug/L	<0.50 U	<0.50 U*	<0.50 U	<0.40 U	<0.50 U	<0.50 U*	<0.50 U
2-Butanone (MEK)	ug/L	<2.0 U	<2.0 U	<5.0 U	<5.0 U	<2.0 U	<2.0 U	<5.0 U
trans-1,4-Dichloro-2-Butene	ug/L	<1.0 U	<1.0 U	<1.0 U*	<1.0 U	<1.0 U	<1.0 U	<1.0 U*
Carbon Disulfide	ug/L	<0.50 U*	<0.50 U	<0.50 U*	<0.50 U	<0.50 U*	<0.50 U	<0.50 U*
Carbon Tetrachloride	ug/L	<0.50 U*	<0.50 U	<0.50 U*	<0.50 U	<0.50 U*	<0.50 U	<0.50 U*
4-Isopropyltoluene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Dichlorodifluoromethane	ug/L	<1.0 U	<1.0 U	<0.50 U	<1.0 U*	<1.0 U	<1.0 U	<0.50 U
1,1,1,2-Tetrachloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,1-Trichloroethane	ug/L	<0.50 U*	<0.50 U	<0.50 U	<0.50 U	<0.50 U*	<0.50 U	<0.50 U
1,1,2,2-Tetrachloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-Trichloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	<0.50 U*	<0.50 U	<1.0 U	<1.0 U	<0.50 U*	<0.50 U	<1.0 U
1,1-Dichloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Ethylene Dibromide	ug/L	<0.50 U	<0.50 U	<1.0 U	<1.0 U	<0.50 U	<0.50 U	<1.0 U
1,2-Dichloroethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Chloroethane	ug/L	<1.0 U	<1.0 U	<0.50 U	<1.0 U	<1.0 U	<1.0 U	<0.50 U
Methyl tert-Butyl ether	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,1-Dichloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
trans-1,2-Dichloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Vinyl Chloride	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Tetrachloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Tetrahydrofuran	ug/L	<2.0 U	<2.0 U	<5.0 U	<5.0 U	<2.0 U	<2.0 U	<5.0 U
Hexanone, 2-	ug/L	<2.0 U	<2.0 U	<5.0 U	<5.0 U	<2.0 U	<2.0 U	<5.0 U
Bromomethane	ug/L	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Bromodichloromethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Chloromethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Dibromochloromethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	CB-MW-08	CB-MW-08	CB-MW-08	CB-MW-08	SDW-9A	SDW-9A	SDW-9A
	Sample ID	1230182	1239903	1246265	1253658	1230187	1239904	1246268
	Sample Date	06/16/2011	09/13/2011	12/12/2011	03/15/2012	06/16/2011	09/14/2011	12/12/2011
	Sample Time	10:15	18:26	16:01	15:30	13:00	12:20	12:00
	Sample Depth	25.00' - 35.0	25.00' - 35.0	25.00' - 35.0	25.00' - 35.0	2.00' - 12.00	2.00' - 12.00	2.00' - 12.00
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15779-1	220-16498-18	360-38116-10	360-39595-8	220-15779-5	220-16498-21	360-38116-13
Constituent	Units							
Methylene Dibromide	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Methylene Chloride	ug/L	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U	<2.0 U
Bromoform	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Chloroform	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Trichlorofluoromethane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Methyl Isobutyl ketone	ug/L	<2.0 U	<2.0 U	<5.0 U	<5.0 U	<2.0 U	<2.0 U	<5.0 U
1,2,3-Trichloropropane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1,2-Dibromo-3-Chloropropane	ug/L	<0.50 U	<0.50 U	<5.0 U	<5.0 U	<0.50 U	<0.50 U	<5.0 U
1,3-Dichloropropane	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
sec-Dichloropropane	ug/L	<0.50 U	<0.50 U	<1.0 U	<0.50 U	<0.50 U	<0.50 U	<1.0 U
1,1-Dichloropropene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
trans-1,3-Dichloropropene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.40 U	<0.50 U	<0.50 U	<0.50 U
cis-1,3-Dichloropropene	ug/L	<0.50 U	<0.50 U	<0.40 U	<0.40 U	<0.50 U	<0.50 U	<0.40 U
Styrene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
2-Chlorotoluene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
4-Chlorotoluene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Trichloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
o-Xylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Xylenes, Total	ug/L	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U	<1.0 U
Xylenes,m- & p-	ug/L	<1.0 U	<1.0 U	<1.0 U	<2.0 U	<1.0 U	<1.0 U	<1.0 U
cis-1,2-Dichloroethylene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
n-Butylbenzene	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
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Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

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	Location ID	SDW-9A						
	Sample ID	1253660						
	Sample Date	03/15/2012						
	Sample Time	13:35						
	Sample Depth	2.00' - 12.00						
	Laboratory	STL-						
	Lab. Number	360-39595-9						
Constituent	Units							
Depth of Well	Ft	13.50						
Depth to Water	Ft	4.36						
Oxygen, Dissolved (field)	mg/L	0.24						
Specific Conductivity (field)	uS/cm	62						
Temperature	C	8.06						
Turbidity (field)	NTU	4.72						
Water Elevation	Ft	144.41						
pH (field measurement)	SU	5.43						
Date Organics Analyzed	-	03/21/2012						
Oxidation-Reduction Potential	mV	-79.9						
Naphthalene	ug/L	<5.0 U						
1,2-Dichloropropane	ug/L	<0.50 U						
Acetone	ug/L	<10 U						
Acrylonitrile	ug/L	<0.50 U						
Benzene	ug/L	<0.50 U						
1,2,3-Trichlorobenzene	ug/L	<0.50 U						
1,2,4-Trichlorobenzene	ug/L	<0.50 U						
1,2,4-Trimethylbenzene	ug/L	<0.50 U						
1,2-Dichlorobenzene	ug/L	<0.50 U						
1,3,5-Trimethylbenzene	ug/L	<0.50 U						
1,3-Dichlorobenzene	ug/L	<0.50 U						
1,4-Dichlorobenzene	ug/L	<0.50 U						
Bromobenzene	ug/L	<0.50 U						
Chlorobenzene	ug/L	<0.50 U						
Ethylbenzene	ug/L	<0.50 U						
Isopropylbenzene (Cumene)	ug/L	<0.50 U						
n-Propylbenzene	ug/L	<0.50 U						
sec-Butylbenzene	ug/L	<0.50 U						

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

Loureiro
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	Location ID	SDW-9A						
	Sample ID	1253660						
	Sample Date	03/15/2012						
	Sample Time	13:35						
	Sample Depth	2.00' - 12.00						
	Laboratory	STL-						
	Lab. Number	360-39595-9						
Constituent	Units							
tert-Butylbenzene	ug/L	<1.0 U						
Hexachlorobutadiene	ug/L	<0.40 U						
2-Butanone (MEK)	ug/L	<5.0 U						
trans-1,4-Dichloro-2-Butene	ug/L	<1.0 U						
Carbon Disulfide	ug/L	<0.50 U						
Carbon Tetrachloride	ug/L	<0.50 U						
4-Isopropyltoluene	ug/L	<0.50 U						
Dichlorodifluoromethane	ug/L	<1.0 U*						
1,1,1,2-Tetrachloroethane	ug/L	<0.50 U						
1,1,1-Trichloroethane	ug/L	<0.50 U						
1,1,2,2-Tetrachloroethane	ug/L	<0.50 U						
1,1,2-Trichloroethane	ug/L	<0.50 U						
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/L	<1.0 U						
1,1-Dichloroethane	ug/L	<0.50 U						
Ethylene Dibromide	ug/L	<1.0 U						
1,2-Dichloroethane	ug/L	<0.50 U						
Chloroethane	ug/L	<1.0 U						
Methyl tert-Butyl ether	ug/L	<0.50 U						
1,1-Dichloroethylene	ug/L	<0.50 U						
trans-1,2-Dichloroethylene	ug/L	<0.50 U						
Vinyl Chloride	ug/L	<0.50 U						
Tetrachloroethylene	ug/L	<0.50 U						
Tetrahydrofuran	ug/L	<5.0 U						
Hexanone, 2-	ug/L	<5.0 U						
Bromomethane	ug/L	<1.0 U						
Bromodichloromethane	ug/L	<0.50 U						
Chloromethane	ug/L	<0.50 U						
Dibromochloromethane	ug/L	<0.50 U						

Table 3-3
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
Old Southington Landfill, Connecticut: Vapor Intrusion Groundwater Investigation Report

Loureiro
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	Location ID	SDW-9A						
	Sample ID	1253660						
	Sample Date	03/15/2012						
	Sample Time	13:35						
	Sample Depth	2.00' - 12.00						
	Laboratory	STL-						
	Lab. Number	360-39595-9						
Constituent	Units							
Methylene Dibromide	ug/L	<0.50 U						
Methylene Chloride	ug/L	<2.0 U						
Bromoform	ug/L	<0.50 U						
Chloroform	ug/L	<0.50 U						
Trichlorofluoromethane	ug/L	<0.50 U						
Methyl Isobutyl ketone	ug/L	<5.0 U						
1,2,3-Trichloropropane	ug/L	<0.50 U						
1,2-Dibromo-3-Chloropropane	ug/L	<5.0 U						
1,3-Dichloropropane	ug/L	<0.50 U						
sec-Dichloropropane	ug/L	<0.50 U						
1,1-Dichloropropene	ug/L	<0.50 U						
trans-1,3-Dichloropropene	ug/L	<0.40 U						
cis-1,3-Dichloropropene	ug/L	<0.40 U						
Styrene	ug/L	<0.50 U						
Toluene	ug/L	<0.50 U						
2-Chlorotoluene	ug/L	<0.50 U						
4-Chlorotoluene	ug/L	<0.50 U						
Trichloroethylene	ug/L	<0.50 U						
o-Xylene	ug/L	<0.50 U						
Xylenes, Total	ug/L	<1.0 U						
Xylenes,m- & p-	ug/L	<2.0 U						
cis-1,2-Dichloroethylene	ug/L	<0.50 U						
n-Butylbenzene	ug/L	<0.50 U						
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Table 3-4
SUMMARY OF SOIL VAPOR SAMPLING & ANALYTICAL INFORMATION
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

Loureiro
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Sample Information					Analysis Information							
Location ID	Sample ID	Sample Date	Sampled Interval (ft)	Sample Class	LEAAnalyt. Lab.	Volatile Organics	Semivolatile Organics	Herbicides	Pesticides/ PCBs	Fuels/Oils	Metals	Miscellaneous Analyses
CE-SV-01	1230177	06/15/2011		VP		X						
CE-SV-01	1238365	09/14/2011		VP		X						
CE-SV-01	1246272	12/12/2011		VP		X						
CE-SV-01	1253662	03/22/2012		VP		X						
CE-SV-02	1230176	06/15/2011	3.00 - 13.00	VP		X						
CE-SV-02	1238364	09/14/2011		VP		X						
CE-SV-02	1246273	12/12/2011		VP		X						
CE-SV-02	1253663	03/15/2012		VP		X						
RS-SV-01	1230179	06/15/2011		VP		X						
RS-SV-01	1238362	09/13/2011		VS		X						
RS-SV-01	1246270	12/12/2011		VP		X						
RS-SV-01	1253665	03/15/2012		VP		X						
RS-SV-02	1230178	06/15/2011		VP		X						
RS-SV-02	1238363	09/13/2011		VS		X						
RS-SV-02	1246271	12/12/2011		VP		X						
RS-SV-02	1253664	03/15/2012		VP		X						

Printed on 10/17/2014

Table 3-5
SUMMARY OF CONSTITUENTS DETECTED IN SOIL VAPOR
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

Loureiro
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	Location ID	CE-SV-01	CE-SV-01	CE-SV-01	CE-SV-01	CE-SV-02	CE-SV-02	CE-SV-02
	Sample ID	1230177	1238365	1246272	1253662	1230176	1238364	1246273
	Sample Date	06/15/2011	09/14/2011	12/12/2011	03/22/2012	06/15/2011	09/14/2011	12/12/2011
	Sample Time	08:42	10:28	08:30	13:30	08:41	09:55	08:30
	Sample Depth					3.00' - 13.00		
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15754-2	220-16510-4	200-8556-3	200-10012-1	220-15754-1	220-16510-3	200-8556-4
Constituent	Units							
Date Organics Analyzed	-	06/20/2011	09/22/2011	12/17/2011	03/28/2012	06/20/2011	09/22/2011	12/17/2011
Acetone	ppmV		0.067	0.051	0.037			0.03
Benzene	ppmV			0.014	0.0034		0.0038	0.0041
1,2,4-Trimethylbenzene	ppmV	0.0024	0.0077	0.0022	0.0043		0.0073	0.0017
1,3,5-Trimethylbenzene	ppmV		0.0022		0.0012		0.002	0.00049
1,3-Dichlorobenzene	ppmV							
1,4-Dichlorobenzene	ppmV	0.0035			0.00058			0.0015
Ethylbenzene	ppmV		0.0051	0.0071	0.0032		0.005	0.0028
2-Butanone (MEK)	ppmV			0.0051	0.0048			0.0014
4-Isopropyltoluene	ppmV							
Dichlorodifluoromethane	ppmV				0.0022			0.0038
1,1,1-Trichloroethane	ppmV	0.009	0.0062					
1,1-Dichloroethane	ppmV	0.002						
Tetrachloroethylene	ppmV	0.003	0.006					0.00058
Chloromethane	ppmV							
Methylene Chloride	ppmV				0.0020			
Trichlorofluoromethane	ppmV	0.0062	0.0075		0.0014	0.0055	0.005	0.0021
Styrene	ppmV							
Toluene	ppmV	0.0048	0.015	0.074	0.040	0.0069	0.026	0.020
Trichloroethylene	ppmV							0.00045
o-Xylene	ppmV		0.0053	0.0060	0.0037		0.0058	0.0025
Xylenes, Total	ppmV	0.0053	0.020	0.028	0.01	0.0071	0.021	0.012
Xylenes,m- & p-	ppmV		0.015	0.021	0.010		0.016	0.0090
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Table 3-5
SUMMARY OF CONSTITUENTS DETECTED IN SOIL VAPOR
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

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	Location ID	CE-SV-02	RS-SV-01	RS-SV-01	RS-SV-01	RS-SV-01	RS-SV-02	RS-SV-02
	Sample ID	1253663	1230179	1238362	1246270	1253665	1230178	1238363
	Sample Date	03/15/2012	06/15/2011	09/13/2011	12/12/2011	03/15/2012	06/15/2011	09/13/2011
	Sample Time	09:00	09:56	10:00	09:25	09:30	09:55	10:06
	Sample Depth							
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	200-9877-1	220-15754-4	220-16510-1	200-8556-1	200-9877-3	220-15754-3	220-16510-2
Constituent	Units							
Date Organics Analyzed	-	03/22/2012	06/20/2011	09/23/2011	12/16/2011	03/23/2012	06/20/2011	09/23/2011
Acetone	ppmV		0.008	0.020	0.0076	0.0067	0.012	0.011
Benzene	ppmV	4.1		0.00050			0.0003	
1,2,4-Trimethylbenzene	ppmV		0.00079	0.00045	0.00039	0.00031	0.0015	0.0004
1,3,5-Trimethylbenzene	ppmV		0.0002				0.00039	
1,3-Dichlorobenzene	ppmV		0.00062				0.00093	
1,4-Dichlorobenzene	ppmV		0.0040				0.0058	
Ethylbenzene	ppmV	16	0.00037	0.00041	0.00028	0.00053	0.00088	0.00025
2-Butanone (MEK)	ppmV		0.00078	0.0017	0.00051	0.0011	0.001	0.00092
4-Isopropyltoluene	ppmV			0.00020		0.00029		0.00020
Dichlorodifluoromethane	ppmV		0.00067	0.00089		0.00069	0.00073	0.00077
1,1,1-Trichloroethane	ppmV							
1,1-Dichloroethane	ppmV							
Tetrachloroethylene	ppmV							
Chloromethane	ppmV			0.00082				
Methylene Chloride	ppmV							
Trichlorofluoromethane	ppmV		0.00032	0.00030	0.00021	0.00027	0.00034	0.00028
Styrene	ppmV						0.00026	
Toluene	ppmV	130	0.0014	0.0032	0.00096	0.0042	0.0040	0.0018
Trichloroethylene	ppmV				0.00065		0.0010	0.00061
o-Xylene	ppmV	8.5	0.00044	0.00041	0.00032	0.00044	0.0010	0.00028
Xylenes, Total	ppmV	35	0.0018	0.0017	0.0013	0.0019	0.0041	0.0010
Xylenes,m- & p-	ppmV	25	0.001	0.0012	0.00097	0.0014	0.0032	0.00078
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Table 3-5
SUMMARY OF CONSTITUENTS DETECTED IN SOIL VAPOR
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

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	Location ID	RS-SV-02	RS-SV-02					
	Sample ID	1246271	1253664					
	Sample Date	12/12/2011	03/15/2012					
	Sample Time	09:25	09:30					
	Sample Depth							
	Laboratory	STL-	STL-					
	Lab. Number	200-8556-2	200-9877-2					
Constituent	Units							
Date Organics Analyzed	-	12/16/2011	03/23/2012					
Acetone	ppmV	0.008						
Benzene	ppmV	0.00060						
1,2,4-Trimethylbenzene	ppmV	0.00047	0.00037					
1,3,5-Trimethylbenzene	ppmV							
1,3-Dichlorobenzene	ppmV							
1,4-Dichlorobenzene	ppmV							
Ethylbenzene	ppmV	0.00048	0.00044					
2-Butanone (MEK)	ppmV		0.0024					
4-Isopropyltoluene	ppmV							
Dichlorodifluoromethane	ppmV		0.00075					
1,1,1-Trichloroethane	ppmV							
1,1-Dichloroethane	ppmV							
Tetrachloroethylene	ppmV							
Chloromethane	ppmV							
Methylene Chloride	ppmV		0.00058					
Trichlorofluoromethane	ppmV	0.00021	0.00030					
Styrene	ppmV							
Toluene	ppmV	0.0025	0.003					
Trichloroethylene	ppmV							
o-Xylene	ppmV	0.00053	0.00035					
Xylenes, Total	ppmV	0.0021	0.0015					
Xylenes,m- & p-	ppmV	0.0015	0.0012					
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Table 3-6
SUMMARY OF ALL SOIL VAPOR ANALYTICAL RESULTS
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

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	Location ID	CE-SV-01	CE-SV-01	CE-SV-01	CE-SV-01	CE-SV-02	CE-SV-02	CE-SV-02
	Sample ID	1230177	1238365	1246272	1253662	1230176	1238364	1246273
	Sample Date	06/15/2011	09/14/2011	12/12/2011	03/22/2012	06/15/2011	09/14/2011	12/12/2011
	Sample Time	08:42	10:28	08:30	13:30	08:41	09:55	08:30
	Sample Depth					3.00' - 13.00		
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15754-2	220-16510-4	200-8556-3	200-10012-1	220-15754-1	220-16510-3	200-8556-4
Constituent	Units							
Date Organics Analyzed	-	06/20/2011	09/22/2011	12/17/2011	03/28/2012	06/20/2011	09/22/2011	12/17/2011
1,2-Dichloropropane	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00039 U	<0.0039 U	<0.0020 U	<0.00039 U
Acetone	ppmV	<0.051 U	0.067	0.051	0.037	<0.10 U	<0.051 U	0.03
Benzene	ppmV	<0.0020 U	<0.0020 U	0.014	0.0034	<0.0041 U	0.0038	0.0041
1,2,4-Trimethylbenzene	ppmV	0.0024	0.0077	0.0022	0.0043	<0.004 U	0.0073	0.0017
1,2-Dichlorobenzene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
1,3,5-Trimethylbenzene	ppmV	<0.0020 U	0.0022	<0.0020 U	0.0012	<0.004 U	0.002	0.00049
1,3-Dichlorobenzene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
1,4-Dichlorobenzene	ppmV	0.0035	<0.0020 U	<0.0020 U	0.00058	<0.0040 U	<0.0020 U	0.0015
Chlorobenzene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00039 U	<0.0039 U	<0.0020 U	<0.00039 U
Ethylbenzene	ppmV	<0.0020 U	0.0051	0.0071	0.0032	<0.0039 U	0.005	0.0028
Isopropylbenzene (Cumene)	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00041 U	<0.004 U	<0.0020 U	<0.00041 U
sec-Butylbenzene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
2-Butanone (MEK)	ppmV	<0.0051 U	<0.0051 U	0.0051	0.0048	<0.0098 U	<0.0051 U	0.0014
Carbon Tetrachloride	ppmV	<0.0021 U	<0.0021 U	<0.0021 U	<0.00040 U	<0.0040 U	<0.0021 U	<0.00040 U
4-Isopropyltoluene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
Dichlorodifluoromethane	ppmV	<0.0051 U	<0.0051 U	<0.0051 U	0.0022	<0.0099 U	<0.0051 U	0.0038
1,1,1-Trichloroethane	ppmV	0.009	0.0062	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
1,1,2,2-Tetrachloroethane	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00039 U	<0.0039 U	<0.0020 U	<0.00039 U
1,1,2-Trichloroethane	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
1,1-Dichloroethane	ppmV	0.002	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
Ethylene Dibromide	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
1,2-Dichloroethane	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
Chloroethane	ppmV	<0.0049 U	<0.0049 U	<0.0049 U	<0.00099 U	<0.0099 U	<0.0049 U	<0.00099 U
Methyl tert-Butyl ether	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00039 U	<0.0039 U	<0.0020 U	<0.00039 U
1,1-Dichloroethylene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
trans-1,2-Dichloroethylene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
Vinyl Chloride	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00039 U	<0.004 U	<0.0020 U	<0.00039 U

Table 3-6
SUMMARY OF ALL SOIL VAPOR ANALYTICAL RESULTS
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

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	Location ID	CE-SV-01	CE-SV-01	CE-SV-01	CE-SV-01	CE-SV-02	CE-SV-02	CE-SV-02
	Sample ID	1230177	1238365	1246272	1253662	1230176	1238364	1246273
	Sample Date	06/15/2011	09/14/2011	12/12/2011	03/22/2012	06/15/2011	09/14/2011	12/12/2011
	Sample Time	08:42	10:28	08:30	13:30	08:41	09:55	08:30
	Sample Depth					3.00' - 13.00		
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	220-15754-2	220-16510-4	200-8556-3	200-10012-1	220-15754-1	220-16510-3	200-8556-4
Constituent	Units							
Tetrachloroethylene	ppmV	0.003	0.006	<0.0021 U	<0.00040 U	<0.0040 U	<0.0021 U	0.00058
Bromodichloromethane	ppmV	<0.0019 U	<0.0019 U	<0.0019 U	<0.00040 U	<0.0040 U	<0.0019 U	<0.00040 U
Chloromethane	ppmV	<0.005 U	<0.005 U	<0.005 U	<0.0010 U	<0.010 U	<0.005 U	<0.0010 U
Dibromochloromethane	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
Methylene Chloride	ppmV	<0.0049 U	<0.0049 U	<0.0049 U	0.0020	<0.010 U	<0.0049 U	<0.0010 U
Bromoform	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
Chloroform	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00041 U	<0.004 U	<0.0020 U	<0.00041 U
Trichlorofluoromethane	ppmV	0.0062	0.0075	<0.0020 U	0.0014	0.0055	0.005	0.0021
Methyl Isobutyl ketone	ppmV	<0.005 U	<0.005 U	<0.005 U	<0.0010 U	<0.010 U	<0.005 U	<0.0010 U
trans-1,3-Dichloropropene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
cis-1,3-Dichloropropene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
Styrene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
Toluene	ppmV	0.0048	0.015	0.074	0.040	0.0069	0.026	0.020
Trichloroethylene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00039 U	<0.0039 U	<0.0020 U	0.00045
o-Xylene	ppmV	<0.0020 U	0.0053	0.0060	0.0037	<0.0039 U	0.0058	0.0025
Xylenes, Total	ppmV	0.0053	0.020	0.028	0.01	0.0071	0.021	0.012
Xylenes,m- & p-	ppmV	<0.0051 U	0.015	0.021	0.010	<0.0099 U	0.016	0.0090
cis-1,2-Dichloroethylene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
n-Butylbenzene	ppmV	<0.0020 U	<0.0020 U	<0.0020 U	<0.00040 U	<0.0040 U	<0.0020 U	<0.00040 U
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Table 3-6
SUMMARY OF ALL SOIL VAPOR ANALYTICAL RESULTS
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

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	Location ID	CE-SV-02	RS-SV-01	RS-SV-01	RS-SV-01	RS-SV-01	RS-SV-02	RS-SV-02
	Sample ID	1253663	1230179	1238362	1246270	1253665	1230178	1238363
	Sample Date	03/15/2012	06/15/2011	09/13/2011	12/12/2011	03/15/2012	06/15/2011	09/13/2011
	Sample Time	09:00	09:56	10:00	09:25	09:30	09:55	10:06
	Sample Depth							
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	200-9877-1	220-15754-4	220-16510-1	200-8556-1	200-9877-3	220-15754-3	220-16510-2
Constituent	Units							
Date Organics Analyzed	-	03/22/2012	06/20/2011	09/23/2011	12/16/2011	03/23/2012	06/20/2011	09/23/2011
1,2-Dichloropropane	ppmV	<0.9 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Acetone	ppmV	<22 U	0.008	0.020	0.0076	0.0067	0.012	0.011
Benzene	ppmV	4.1	<0.00020 U	0.00050	<0.00020 U	<0.00020 U	0.0003	<0.00020 U
1,2,4-Trimethylbenzene	ppmV	<0.88 U	0.00079	0.00045	0.00039	0.00031	0.0015	0.0004
1,2-Dichlorobenzene	ppmV	<0.87 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
1,3,5-Trimethylbenzene	ppmV	<0.88 U	0.0002	<0.00020 U	<0.00020 U	<0.00020 U	0.00039	<0.00020 U
1,3-Dichlorobenzene	ppmV	<0.87 U	0.00062	<0.00020 U	<0.00020 U	<0.00020 U	0.00093	<0.00020 U
1,4-Dichlorobenzene	ppmV	<0.87 U	0.0040	<0.00020 U	<0.00020 U	<0.00020 U	0.0058	<0.00020 U
Chlorobenzene	ppmV	<0.9 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Ethylbenzene	ppmV	16	0.00037	0.00041	0.00028	0.00053	0.00088	0.00025
Isopropylbenzene (Cumene)	ppmV	<0.88 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
sec-Butylbenzene	ppmV	<0.87 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
2-Butanone (MEK)	ppmV	<2.2 U	0.00078	0.0017	0.00051	0.0011	0.001	0.00092
Carbon Tetrachloride	ppmV	<0.87 U	<0.00021 U	<0.00021 U	<0.00021 U	<0.00021 U	<0.00021 U	<0.00021 U
4-Isopropyltoluene	ppmV	<0.87 U	<0.00020 U	0.00020	<0.00020 U	0.00029	<0.00020 U	0.00020
Dichlorodifluoromethane	ppmV	<2.2 U	0.00067	0.00089	<0.00051 U	0.00069	0.00073	0.00077
1,1,1-Trichloroethane	ppmV	<0.88 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
1,1,2,2-Tetrachloroethane	ppmV	<0.9 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
1,1,2-Trichloroethane	ppmV	<0.88 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
1,1-Dichloroethane	ppmV	<0.87 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Ethylene Dibromide	ppmV	<0.87 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
1,2-Dichloroethane	ppmV	<0.87 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Chloroethane	ppmV	<2.2 U	<0.00049 U	<0.00049 U	<0.00049 U	<0.00049 U	<0.00049 U	<0.00049 U
Methyl tert-Butyl ether	ppmV	<0.86 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
1,1-Dichloroethylene	ppmV	<0.88 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
trans-1,2-Dichloroethylene	ppmV	<0.88 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Vinyl Chloride	ppmV	<0.86 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U

Table 3-6
SUMMARY OF ALL SOIL VAPOR ANALYTICAL RESULTS
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

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	Location ID	CE-SV-02	RS-SV-01	RS-SV-01	RS-SV-01	RS-SV-01	RS-SV-02	RS-SV-02
	Sample ID	1253663	1230179	1238362	1246270	1253665	1230178	1238363
	Sample Date	03/15/2012	06/15/2011	09/13/2011	12/12/2011	03/15/2012	06/15/2011	09/13/2011
	Sample Time	09:00	09:56	10:00	09:25	09:30	09:55	10:06
	Sample Depth							
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-
	Lab. Number	200-9877-1	220-15754-4	220-16510-1	200-8556-1	200-9877-3	220-15754-3	220-16510-2
Constituent	Units							
Tetrachloroethylene	ppmV	<0.87 U	<0.00021 U	<0.00021 U	<0.00021 U	<0.00021 U	<0.00021 U	<0.00021 U
Bromodichloromethane	ppmV	<0.87 U	<0.00019 U	<0.00019 U	<0.00019 U	<0.00019 U	<0.00019 U	<0.00019 U
Chloromethane	ppmV	<2.2 U	<0.0005 U	0.00082	<0.00048 U	<0.00048 U	<0.0005 U	<0.0005 U
Dibromochloromethane	ppmV	<0.87 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Methylene Chloride	ppmV	<2.2 U	<0.00049 U	<0.00049 U	<0.00049 U	<0.00049 U	<0.00049 U	<0.00049 U
Bromoform	ppmV	<0.9 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Chloroform	ppmV	<0.88 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Trichlorofluoromethane	ppmV	<0.87 U	0.00032	0.00030	0.00021	0.00027	0.00034	0.00028
Methyl Isobutyl ketone	ppmV	<2.2 U	<0.0005 U	<0.0005 U	<0.00049 U	<0.00049 U	<0.0005 U	<0.0005 U
trans-1,3-Dichloropropene	ppmV	<0.9 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
cis-1,3-Dichloropropene	ppmV	<0.9 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
Styrene	ppmV	<0.87 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	0.00026	<0.00020 U
Toluene	ppmV	130	0.0014	0.0032	0.00096	0.0042	0.0040	0.0018
Trichloroethylene	ppmV	<0.88 U	<0.00020 U	<0.00020 U	0.00065	<0.00020 U	0.0010	0.00061
o-Xylene	ppmV	8.5	0.00044	0.00041	0.00032	0.00044	0.0010	0.00028
Xylenes, Total	ppmV	35	0.0018	0.0017	0.0013	0.0019	0.0041	0.0010
Xylenes,m- & p-	ppmV	25	0.001	0.0012	0.00097	0.0014	0.0032	0.00078
cis-1,2-Dichloroethylene	ppmV	<0.88 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
n-Butylbenzene	ppmV	<0.87 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U	<0.00020 U
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Table 3-6
SUMMARY OF ALL SOIL VAPOR ANALYTICAL RESULTS
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

Loureiro
Engineering • Construction • EH&S • Energy • Waste

	Location ID	RS-SV-02	RS-SV-02					
	Sample ID	1246271	1253664					
	Sample Date	12/12/2011	03/15/2012					
	Sample Time	09:25	09:30					
	Sample Depth							
	Laboratory	STL-	STL-					
	Lab. Number	200-8556-2	200-9877-2					
Constituent	Units							
Date Organics Analyzed	-	12/16/2011	03/23/2012					
1,2-Dichloropropane	ppmV	<0.00020 U	<0.00020 U					
Acetone	ppmV	0.008	<0.0051 U					
Benzene	ppmV	0.00060	<0.00020 U					
1,2,4-Trimethylbenzene	ppmV	0.00047	0.00037					
1,2-Dichlorobenzene	ppmV	<0.00020 U	<0.00020 U					
1,3,5-Trimethylbenzene	ppmV	<0.00020 U	<0.00020 U					
1,3-Dichlorobenzene	ppmV	<0.00020 U	<0.00020 U					
1,4-Dichlorobenzene	ppmV	<0.00020 U	<0.00020 U					
Chlorobenzene	ppmV	<0.00020 U	<0.00020 U					
Ethylbenzene	ppmV	0.00048	0.00044					
Isopropylbenzene (Cumene)	ppmV	<0.00020 U	<0.00020 U					
sec-Butylbenzene	ppmV	<0.00020 U	<0.00020 U					
2-Butanone (MEK)	ppmV	<0.00051 U	0.0024					
Carbon Tetrachloride	ppmV	<0.00021 U	<0.00021 U					
4-Isopropyltoluene	ppmV	<0.00020 U	<0.00020 U					
Dichlorodifluoromethane	ppmV	<0.00051 U	0.00075					
1,1,1-Trichloroethane	ppmV	<0.00020 U	<0.00020 U					
1,1,2,2-Tetrachloroethane	ppmV	<0.00020 U	<0.00020 U					
1,1,2-Trichloroethane	ppmV	<0.00020 U	<0.00020 U					
1,1-Dichloroethane	ppmV	<0.00020 U	<0.00020 U					
Ethylene Dibromide	ppmV	<0.00020 U	<0.00020 U					
1,2-Dichloroethane	ppmV	<0.00020 U	<0.00020 U					
Chloroethane	ppmV	<0.00049 U	<0.00049 U					
Methyl tert-Butyl ether	ppmV	<0.00020 U	<0.00020 U					
1,1-Dichloroethylene	ppmV	<0.00020 U	<0.00020 U					
trans-1,2-Dichloroethylene	ppmV	<0.00020 U	<0.00020 U					
Vinyl Chloride	ppmV	<0.00020 U	<0.00020 U					

Table 3-6
SUMMARY OF ALL SOIL VAPOR ANALYTICAL RESULTS
Old Southington Landfill, Southington, Connecticut: Vapor Intrusion Groundwater Monitoring Report

Loureiro
Engineering • Construction • EH&S • Energy • Waste

	Location ID	RS-SV-02	RS-SV-02					
	Sample ID	1246271	1253664					
	Sample Date	12/12/2011	03/15/2012					
	Sample Time	09:25	09:30					
	Sample Depth							
	Laboratory	STL-	STL-					
	Lab. Number	200-8556-2	200-9877-2					
Constituent	Units							
Tetrachloroethylene	ppmV	<0.00021 U	<0.00021 U					
Bromodichloromethane	ppmV	<0.00019 U	<0.00019 U					
Chloromethane	ppmV	<0.00048 U	<0.00048 U					
Dibromochloromethane	ppmV	<0.00020 U	<0.00020 U					
Methylene Chloride	ppmV	<0.00049 U	0.00058					
Bromoform	ppmV	<0.00020 U	<0.00020 U					
Chloroform	ppmV	<0.00020 U	<0.00020 U					
Trichlorofluoromethane	ppmV	0.00021	0.00030					
Methyl Isobutyl ketone	ppmV	<0.00049 U	<0.00049 U					
trans-1,3-Dichloropropene	ppmV	<0.00020 U	<0.00020 U					
cis-1,3-Dichloropropene	ppmV	<0.00020 U	<0.00020 U					
Styrene	ppmV	<0.00020 U	<0.00020 U					
Toluene	ppmV	0.0025	0.003					
Trichloroethylene	ppmV	<0.00020 U	<0.00020 U					
o-Xylene	ppmV	0.00053	0.00035					
Xylenes, Total	ppmV	0.0021	0.0015					
Xylenes,m- & p-	ppmV	0.0015	0.0012					
cis-1,2-Dichloroethylene	ppmV	<0.00020 U	<0.00020 U					
n-Butylbenzene	ppmV	<0.00020 U	<0.00020 U					
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TABLE 4-1
Summary of Groundwater Analytical Data and Exceedances
Vapor Intrusion Groundwater Investigation
Old Southington Landfill
Southington, Connecticut

			Sampling Method	S (uf)	S (f)	P (uf)	B(uf)	B(f)	B(uf)	B(f)	B(uf)	S (uf)	S (f)	P (uf)	B(uf)	B(uf)	B(uf)
			Location ID	**CB-MW-01**								**CB-MW-02**					
			Sample ID	1230188	1230188a	1230188b	1239900	1239906	1246260	1246260	1253652	1230184	1230184a	1230184b	1239898	1246259	1253651
			Sample Date	6/15/2011	6/15/2011	6/15/2011	9/13/2011	9/13/2011	12/12/2011	12/12/2011	3/15/2012	6/15/2011	6/15/2011	6/15/2011	9/13/2011	12/12/2011	3/15/2012
			Sample Time	11:10	15:20	15:35	13:45	13:45	14:42	14:42	11:05	10:56	15:30	15:35	10:21	12:26	10:20
			Sample Depth	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	3.00' - 13.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00	7.00' - 17.00
			Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-
			Lab. Number	220-15753-1	220-15753-2	220-15753-3	220-16485-7	220-16485-6	360-38116-3	360-38116-2	360-39595-3	220-15753-4	220-15753-5	220-15753-6	220-16485-1	360-38116-4	360-39595-2
			Depth of Well (ft)	15.2	15.2	15.2	15.07	15.07	15.06	15.06	15.29	16.93	16.93	16.93	16.95	17.11	17.11
			Depth to Water (ft)	5.75	5.75	5.75	4.48	4.48	4.59	4.59	4.94	8.98	8.98	8.98	8.62	8.27	9.07
	RVC (From Table L-1 of App B of 2006 ROD)	**IVC ((From Table L-1 of App B of 2006 ROD)**	Date Organics Analyzed	6/17/2011	6/17/2011	6/17/2011	9/14/2011	9/14/2011	1/4/1900	12/14/2011	3/21/2012	6/17/2011	6/17/2011	6/17/2011	9/14/2011	12/14/2011	3/21/2012
Constituent																	
Acetone	50000	50000	ug/L	**3.6**	**6.5**	**6.1**	**38***	**2***	<10 U	<10 U	<10 U	<2 U	**12**	**9.4**	<2 U *	<10 U	<10 U
Ethylbenzene	2700	36000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**1**	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Benzene	130	310	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Methyl tert-Butyl ether	21000	50000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	7100	41000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**2.7**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Xylenes, Total	8700	48000	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Trichloroethylene	27	67	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Vinyl chloride	1.6	2	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
cis-1,2-Dichloroethene	830	11000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
o-Xylene	NA	NA	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
p-Dichlorobenzene	1400	3400	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloroethane	3000	41000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,1-Trichloroethane	6500	16000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U

			Sampling Method	S (uf)	S (f)	P (uf)	B (uf)	B (f)	B (uf)	B (uf)	S (uf)	B (uf)	B (uf)	B (f)	B (uf)	B (uf)	S (uf)	B (uf)	B (uf)	B (uf)	B (uf)
			Location ID	**CB-MW-03**							**CB-MW-04**						**CB-MW-05**				
			Sample ID	1230180	1230180a	1230180b	1239899	1246258	1246258	1253650	1230181	1239901	1239910	1246264	1246264	1253654	1230185	1239905	1246263	1246266	1253655
			Sample Date	6/15/2011	6/15/2011	6/15/2011	9/13/2011	12/12/2011	12/12/2011	3/15/2012	6/15/2011	9/13/2011	9/13/2011	12/12/2011	12/12/2011	3/15/2012	6/15/2011	9/13/2011	12/12/2011	12/12/2011	3/15/2012
			Sample Time	11:30	15:40	15:45	10:21	10:52	10:52	9:45	15:10	13:26	13:26	13:16	13:16	13:40	14:26	15:21	12:36	12:36	13:40
			Sample Depth	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	8.00' - 18.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00
			Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-
			Lab. Number	220-15753-7	220-15753-8	220-15753-9	220-16485-8	360-38116-5	360-38116-6	360-39595-1	220-15753-11	220-16485-2	220-16485-3	360-38116-8	360-38116-7	360-39595-4	220-15753-13	220-16485-9	360-38116-11	360-38116-12	360-39595-5
			Depth of Well (ft)	18.42	18.42	18.42	15.89	18.01	18.01	18.1	17.41	16.95	16.95	16.9	16.9	17.08	16.92	16.98	16.78	16.78	17.1
			Depth to Water (ft)	10.98	10.98	10.98	9.97	9.54	9.54	10.46	7.73	7.45	7.45	7.01	7.01	7.87	9.11	8.84	8.39	8.39	9.31
	RVC (From Table L-1 of App B of 2006 ROD)	**IVC ((From Table L-1 of App B of 2006 ROD)**	Date Organics Analyzed	6/17/2011	6/17/2011	6/17/2011	9/14/2011	12/14/2011	12/14/2011	3/21/2012	6/17/2011	9/14/2011	9/14/2011	12/14/2011	12/14/2011	3/21/2012	6/17/2011	9/14/2011	12/14/2011	12/14/2011	3/21/2012
Constituent																					
Acetone	50000	50000	ug/L	**2.4**	**15**	**3.9**	<2 U *	<10 U	<10 U	<10 U	<2 U	<2 U *	**2.6***	<10 U	<10 U	<10 U	<2 U	<2 U *	< 10U	< 10U	< 10U
Ethylbenzene	2700	36000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Benzene	130	310	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**0.89**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**0.51**	<0.5 U	**0.95**	<0.5 U	<0.5 U	<0.5 U
Methyl tert-Butyl ether	21000	50000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**0.96**	**1.3**	**1.3**	**2**	**1.9**	**1.3**	**0.51**	**0.65**	**0.53**	**0.53**	<0.5 U
Toluene	7100	41000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**3.4**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**2.4**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Xylenes, Total	8700	48000	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	**2**	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Trichloroethylene	27	67	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**0.56**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Vinyl chloride	1.6	2	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**1.8**	<0.5 U	**2.2**	<0.5 U	**3.7**	**3.8**	**3.5**	**2.2**
cis-1,2-Dichloroethene	830	11000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**5.1**	**1.1**	**7.7**	<0.5 U	**0.51**	**0.55**	**0.54**	<0.5 U
o-Xylene	NA	NA	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**2**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
p-Dichlorobenzene	1400	3400	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**0.54**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloroethane	3000	41000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**0.68**	<0.5 U	**0.56**	<0.5 U	**0.63**
1,1,1-Trichloroethane	6500	16000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U

Notes:

1) "U" = None detected
2) Groundwater sampling methods: S (uf) = Submersible Pump/Unfiltered, S (f) = Submersible Pump/Filtered, P(uf) = Peristaltic Pump/Unfiltered, B(uf) = Bladder Pump/Unfiltered, B(f) = Bladder Pump (filtered)
3) RVC = Residential Volatilization Criteria
4) ug/L = micrograms per liter
5) * = Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) exceeds control limits

3.7	= Exceedance of RVC and IVC
1.8	= Exceedance of RVC

TABLE 4-1
Summary of Groundwater Analytical Data and Exceedances
Vapor Intrusion Groundwater Investigation
Old Southington Landfill
Southington, Connecticut

			Sampling Method	S (uf)	S (uf)	B (uf)	B (uf)	B (uf)	S (uf)	B (uf)	B (uf)	B (uf)	S (uf)	B (uf)	B (uf)	B (uf)	P (uf)	P (uf)	P (uf)	P (uf)
			Location ID	**CB-MW-06**					**CB-MW-07**				**CB-MW-08**				**SDW-9A**			
			Sample ID	1230183	1230192	1239907	1246262	1253656	1230186	1239902	1246261	1253657	1230182	1239903	1246265	1253658	1230187	1239904	1246268	1253660
			Sample Date	6/15/2011	6/15/2011	9/13/2011	12/12/2011	3/15/2012	6/16/2011	9/13/2011	12/12/2011	3/15/2012	6/16/2011	9/13/2011	12/12/2011	3/15/2012	6/16/2011	9/14/2011	12/12/2011	3/15/2012
			Sample Time	14:25	14:25	17:16	10:56	14:32	11:45	15:46	15:56	15:20	10:15	18:26	16:01	15:30	13:00	12:20	12:00	13:35
			Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	23.00' - 33.0	23.00' - 33.0	23.00' - 33.0	23.00' - 33.0	25.00' - 35.00	25.00' - 35.0	25.00' - 35.0	25.00' - 35.0	2.00' - 12.00	2.00' - 12.00	2.00' - 12.00	2.00' - 12.00
			Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-
			Lab. Number	220-15753-12	220-15753-14	220-16498-17	360-38116-9	360-39595-6	220-15779-4	220-16485-10	360-38116-1	360-39595-7	220-15779-1	220-16498-18	360-38116-10	360-39595-8	220-15779-5	220-16498-21	360-38116-13	360-39595-9
			Depth of Well (ft)	17.15	17.15	16.99	16.95	17.68	33.05	33.05	33.27	33.25	34.95	34.94	34.97	35.15	13.5	13.67	13.5	13.5
			Depth to Water (ft)	11.98	11.98	11.53	9.87	12.75	25.53	25.02	24.68	25.11	28.77	28.28	27.98	28.47	4.05	4.24	3.91	4.36
	RVC (From Table L-1 of App B of 2006 ROD)	**IVC ((From Table L-1 of App B of 2006 ROD)**	Date Organics Analyzed	6/17/2011	6/17/2011	9/15/2011	12/14/2011	3/21/2012	6/21/2011	9/14/2011	12/14/2011	3/21/2012	6/21/2011	9/15/2011	12/14/2011	3/21/2012	6/21/2011	9/15/2011	12/14/2011	3/21/2012
Constituent																				
Acetone	50000	50000	ug/L	<2 U	<2 U	<2 U *	<10 U	<10 U	<2 U	<2 U *	<10 U	<10 U	<2 U	<2 U *	<10 U	<10 U	<2 U	<2 U *	<10 U	<10 U
Ethylbenzene	2700	36000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Benzene	130	310	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Methyl tert-Butyl ether	21000	50000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Toluene	7100	41000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Xylenes, Total	8700	48000	ug/L	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U	<1 U
Trichloroethylene	27	67	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
Vinyl chloride	1.6	2	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
cis-1,2-Dichloroethene	830	11000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
o-Xylene	NA	NA	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
p-Dichlorobenzene	1400	3400	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1-Dichloroethane	3000	41000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U
1,1,1-Trichloroethane	6500	16000	ug/L	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	**1.1 ***	<0.5 U	<0.5 U	<0.5 U	<0.5 U *	<0.5 U	<0.5 U	<0.5 U	<0.5 U *	<0.5 U	<0.5 U	<0.5 U

Notes:

1) "U" = None detected
2) Groundwater sampling methods: S (uf) = Submersible Pump/Unfiltered, S (f) = Submersible Pump/Filtered, P(uf) = Peristaltic Pump/Unfiltered, B(uf) = Bladder Pump/Unfiltered, B(f) = Bladder Pump (filtered)
3) RVC = Residential Volatilization Criteria
4) ug/L = micrograms per liter
5) * = Laboratory Control Sample (LCS) or Laboratory Control Sample Duplicate (LCSD) exceeds control limits

3.7	= Exceedance of RVC and IVC
1.8	= Exceedance of RVC

TABLE 4-2
Summary of Soil Vapor Analytical Data and Exceedances
Vapor Intrusion Groundwater Investigation
Old Southington Landfill
Southington, Connecticut

			Location ID	CE-SV-01				CE-SV-02				RS-SV-01				RS-SV-02			
			Sample ID	1230177	1238365	1246272	1253662	1230176	1238364	1246273	1253663	1230179	1238362	1246270	1253665	1230178	1238363	1246271	1253664
			Sample Date	6/15/2011	9/14/2011	12/12/2011	3/22/2012	6/15/2011	9/14/2011	12/12/2011	3/15/2012	6/15/2011	9/13/2011	12/12/2011	3/15/2012	6/15/2011	9/13/2011	12/12/2011	3/15/2012
			Sample Time	8:42	9:55	8:30	13:30	8:41	10:28	8:30	9:00	9:56	10:00	9:20	9:30	9:55	10:06	9:20	9:30
			Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-	STL-
			Lab. Number	220-15754-2	220-16510-4	200-8556-3	200-10012-1	220-15754-1	220-16510-3	200-8556-4	200-9877-1	220-15754-4	220-16510-1	200-8556-1	200-9877-3	220-15754-3	220-16510-2	200-8556-2	200-9877-2
			Date Organics	6/20/2011	9/22/2011	12/17/2011	3/28/2012	6/20/2011	9/22/2011	12/17/2011	3/22/2012	6/20/2011	9/23/2011	12/16/2011	3/23/2012	6/20/2011	9/23/2011	12/16/2011	3/23/2012
Constituent	**RSVVC**	**ICSVVC**																	
1,1,1-Trichloroethane	70	130	ppmv	**0.0091**	**0.0063**	<0.002 U	<0.0004 U	<0.004 U	<0.002 U	<0.0004 U	<0.87 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
1,1-Dichloroethane	14	150	ppmv	**0.0025**	<0.002 U	<0.002 U	<0.0004 U	<0.004 U	<0.002 U	<0.0004 U	<0.87 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
1,2,4-Trimethylbenzene	1.4	15	ppmv	**0.0025**	**0.0077**	**0.0022**	**0.0043**	<0.004 U	**0.0073**	**0.0017**	<0.87 U	**0.00079**	**0.00044**	**0.00038**	**0.00031**	**0.0015**	**0.00042**	**0.00048**	**0.00037**
1,3,5-Trimethylbenzene	1.4	15	ppmv	<0.002 U	**0.0023**	<0.002 U	**0.0012**	<0.004 U	**0.0021**	**0.00049**	<0.87 U	**0.0002**	<0.0002 U	<0.0002 U	<0.0002 U	**0.00039**	<0.0002 U	<0.0002 U	<0.0002 U
4-Isopropyltoluene	9.3	94	ppmv	<0.002 U	<0.002 U	<0.002 U	<0.0004 U	<0.004 U	<0.002 U	<0.0004 U	<0.87 U	<0.0002 U	**0.0002**	<0.0002 U	**0.00028**	<0.0002 U	**0.00021**	<0.0002 U	<0.0002 U
Acetone	57	290	ppmv	<0.05 U	**0.066**	**0.05**	**0.037**	<0.1 U	<0.05 U	**0.029**	<22 U	**0.0083**	**0.02**	**0.0075**	**0.0069**	**0.012**	**0.011**	**0.0084**	<0.005 U
Benzene	0.78	1.4	ppmv	<0.002 U	<0.002 U	**0.014**	**0.0034**	<0.004 U	**0.0039**	**0.0041**	**4.1**	<0.0002 U	**0.00051**	<0.0002 U	<0.0002 U	**0.00028**	<0.0002 U	**0.0006**	<0.0002 U
Chloromethane	5.1	53	ppmv	<0.005 U	<0.005 U	<0.005 U	<0.001 U	<0.01 U	<0.005 U	<0.001 U	<2.2 U	<0.0005 U	**0.00084**	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U
Dichlorodifluoromethane	14	140	ppmv	<0.005 U	<0.005 U	<0.005 U	**0.0023**	<0.01 U	<0.005 U	**0.0038**	<2.2 U	**0.00067**	**0.00088**	<0.0005 U	**0.00069**	**0.00072**	**0.00077**	<0.0005 U	**0.00075**
Ethylbenzene	9.3	93	ppmv	<0.002 U	**0.0051**	**0.0071**	**0.0033**	<0.004 U	**0.0047**	**0.0029**	**16**	**0.00037**	**0.00043**	**0.00028**	**0.00053**	**0.00087**	**0.00026**	**0.00048**	**0.00043**
m-Dichlorobenzene	9.2	95	ppmv	<0.002 U	<0.002 U	<0.002 U	<0.0004 U	<0.004 U	<0.002 U	<0.0004 U	<0.87 U	**0.00061**	<0.0002 U	<0.0002 U	<0.0002 U	**0.00092**	<0.0002 U	<0.0002 U	<0.0002 U
Methyl Ethyl ketone	130	230	ppmv	<0.005 U	<0.005 U	**0.0052**	**0.014**	<0.01 U	<0.005 U	**0.0014**	<2.2 U	**0.00076**	**0.0017**	**0.00051**	**0.0011**	**0.001**	**0.00092**	<0.0005 U	**0.0024**
Methylene Chloride	0.65	6.8	ppmv	<0.005 U	<0.005 U	<0.005 U	**0.0069**	<0.01 U	<0.005 U	<0.001 U	<2.2 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	<0.0005 U	**0.00059**
p-Dichlorobenzene	3	5.5	ppmv	**0.0035**	<0.002 U	<0.002 U	**0.00058**	<0.004 U	<0.002 U	**0.0016**	<0.87 U	**0.004**	<0.0002 U	<0.0002 U	<0.0002 U	**0.0058**	<0.0002 U	<0.0002 U	<0.0002 U
Styrene	8	28	ppmv	<0.002 U	<0.002 U	<0.002 U	<0.0004 U	<0.004 U	<0.002 U	<0.0004 U	<0.87 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	**0.00026**	<0.0002 U	<0.0002 U	<0.0002 U
Tetrachloroethylene	0.56	1	ppmv	**0.0029**	**0.0058**	<0.002 U	<0.0004 U	<0.004 U	<0.002 U	**0.00058**	<0.87 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U	<0.0002 U
Toluene	42	180	ppmv	**0.0048**	**0.015**	**0.075**	**0.041**	**0.0069**	**0.0026**	**0.002**	**130**	**0.0014**	**0.0032**	**0.00096**	**0.0044**	**0.004**	**0.0018**	**0.0025**	**0.0027**
Trichloroethylene	0.14	0.26	ppmv	<0.002 U	<0.002 U	<0.002 U	<0.0004 U	<0.004 U	<0.002 U	**0.00044**	<0.87 U	<0.0002 U	<0.0002 U	**0.00064**	<0.0002 U	**0.001**	**0.00061**	<0.0002 U	<0.0002 U
Trichlorofluoromethane	50	120	ppmv	**0.0062**	**0.0074**	<0.002 U	**0.0014**	**0.0055**	**0.0054**	**0.0022**	<0.87 U	**0.00031**	**0.0003**	**0.0002**	**0.00027**	**0.00033**	**0.00029**	**0.00021**	**0.0003**
Xylenes, Total	38	160	ppmv	**0.0054**	**0.02**	**0.0027**	**0.014**	**0.007**	**0.021**	**0.012**	**35**	**0.0018**	**0.0017**	**0.0013**	**0.0019**	**0.0042**	**0.001**	**0.002**	**0.0015**
Xylene, o-	NE	NE	ppmv	<0.002 U	**0.0053**	**0.006**	**0.0036**	<0.004 U	**0.0057**	**0.0026**	**8.5**	**0.00044**	**0.00042**	**0.00033**	**0.00044**	**0.001**	**0.00027**	**0.00052**	**0.00035**
Xylenes,m- & p-	NE	NE	ppmv	<0.005 U	**0.015**	**0.0021**	**0.01**	<0.01 U	**0.016**	**0.0091**	**26**	**0.0014**	**0.0012**	**0.00096**	**0.0014**	**0.0032**	**0.00077**	**0.0015**	**0.0012**

Notes:

1) "U" = None detected
2) RSVVC = Residential Soil Vapor Volatilization Criteria from Worksheet 15a of QAPP, Appendix B of RDPOP
3) ppmv = parts per million by volume
4) NE = Criteria has not been established
5) ICSVVC = Industrial/Commercial Soil Vapor Volatilization Criteria from Worksheet 15a of QAPP, Appendix B of RDPOP

4.1	= Exceedance of RSVVC and ICSVVC
130	= Exceedance of RSVVC

TABLE 4-3
VOCs DETECTED IN MONITORING WELL GZ-5S
Vapor Intrusion Groundwater Investigation
Old Southington Landfill Superfund Site
Southington, CT

Results in ug/L (ppb)

Well	Sample Date	Acetone	Benzene	Bromodichloromethane	Butanone, 2- (methyl ethyl ketone)	tert- Butyl methyl ether	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	Cyclohexane	Dichlorobenzene, 1,2-	Dichlorobenzene, 1,3-	Dichlorobenzene, 1,4-	Dichlorodifluoro- methane	Dichloroethane, 1,1-	Dichloroethane, 1,2-	Dichloroethene, 1,1-	Dichloro ethene, cis-1,2-	Dichloroethene, total	Dichloroethene, trans-1,2-	Dioxane, 1,4-	Ethylbenzene	Ethyltoluene, o-	Isopropylbenzene (cumene)	Heptanone,4-methyl-2-	Hexanone - 2	Isobutyl Ketone	Methyl Acetate	Methyl cyclohexane	Methyl Tert-Butyl Ether	Methyl-2-Pentanone, 4- (methyl isobutyl ketone)	Methylene Chloride	Naphthalene	Propylbenzene	Styrene	Tetrachloroethene	Tetrahydrofuran	Toluene	Trichlorobenzene, 1,2,4-	Trimethylbenzene, 1,2,3-	Trimethylbenzene, 1,2,4-	Trimethylbenzene, 1,3,5-	Trichloroethane, 1,1,1-	Trichloroethane, 1,1,2-	Trichloroethene	1,1,2-Trichloro-1,2,2- Trifluoroethane (Freon 113)	Trichlorofluoromethane (Freon 11)	Vinyl Chloride	Xylenes (total)
GZ-5S	RI																																						1									2				
GZ-5S	Sep-03																				1												17														1				
GZ-5S	Dec-03																																14																			
GZ-5S	Mar-04																																10 U																			
GZ-5S	Jun-04																																2																			
GZ-5S	Sep-04																																2																			
GZ-5S	Dec-04																																1																			
GZ-5S	Mar-05																																1																			
GZ-5S	Jun-05																																																			
GZ-5S	Sep-05																																2																			
GZ-5S	Dec-05																																																			
GZ-5S	Mar-06																															4																				
GZ-5S	Jun-06																																																			
GZ-5S	Sep-06																																																			
GZ-5S	Dec-06																																																			
GZ-5S	Mar-07						1																																													
GZ-5S	Jun-07																																																			
GZ-5S	Sep-07																																1																	1			
GZ-5S	Dec-07																				2																													4			
GZ-5S	Mar-08																																																	3			
GZ-5S	Jun-08																																																			
GZ-5S	Sep-08																																1.9																	2			
GZ-5S	Dec-08																				1.1												1.3																	2.7			
GZ-5S	Mar-09																																1.3																	1.5			
GZ-5S	Jun-09																				0.99												2.9																	1.8			
GZ-5S	Sep-09																																1.3																			
GZ-5S	Dec-09																																																			
GZ-5S	Mar-10																																																			
GZ-5S	Jun-10																																																			
GZ-5S	Sep-10																				0.56												1																	1.4			
GZ-5S	Mar-11																																																			
GZ-5S	Sep-11																				3.9				1.4																1.1								3.3				1.2
GZ-5S	Mar-12																																1.2																			

NOTES:
Compounds not listed have not been detected in any sample during the cap effectivness monitoring.
No value indicates compound not detected in that sample.

Table 4-4a
EXCEEDANCES OF 2003 DRAFT CT VOLATILIZATION CRITERIA - GW, INDUSTRIAL/COMMERCIAL
Old Southington Landfill, Southington, CT: Vapor Intrusion Groundwater Investigation Report

Loureiro
Engineering • Construction • EH&S • Energy • Waste

Constituent	Criterion							
nothing found								
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Criterion values from 2003 Draft CT Volatilization Criteria - GW, Industrial/Commercial

Printed on 10/17/2014

Table 4-4b
EXCEEDANCES OF 2003 DRAFT CT VOLATILIZATION CRITERIA - GW, RESIDENTIAL
Old Southington Landfill, Southington, CT: Vapor Intrusion Groundwater Investigation Report

Loureiro
Engineering • Construction • EH&S • Energy • Waste

	Location ID	CB-MW-04	CB-MW-04	CB-MW-05	CB-MW-05	CB-MW-05	CB-MW-05	
	Sample ID	1246264	1253654	1239905	1246263	1246266	1253655	
	Sample Date	12/12/2011	03/15/2012	09/13/2011	12/12/2011	12/12/2011	03/15/2012	
	Sample Time	13:16	13:40	15:21	12:36	12:36	13:40	
	Sample Depth	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	4.00' - 14.00	
	Laboratory	STL-	STL-	STL-	STL-	STL-	STL-	
	Lab. Number	360-38116-7	360-39595-4	220-16485-9	360-38116-11	360-38116-12	360-39595-5	
Constituent	Criterion							
Depth of Well	Ft	16.90	17.08	16.98	16.78	16.78	17.10	
Depth to Water	Ft	7.01	7.87	8.84	8.39	8.39	9.31	
Date Organics Analyzed	-	12/14/2011	03/21/2012	09/14/2011	12/14/2011	12/14/2011	03/21/2012	
Vinyl Chloride	1.6 ug/L	1.8 ug/L	2.2 ug/L	3.7 ug/L	3.8 ug/L	3.5 ug/L	2.2 ug/L	
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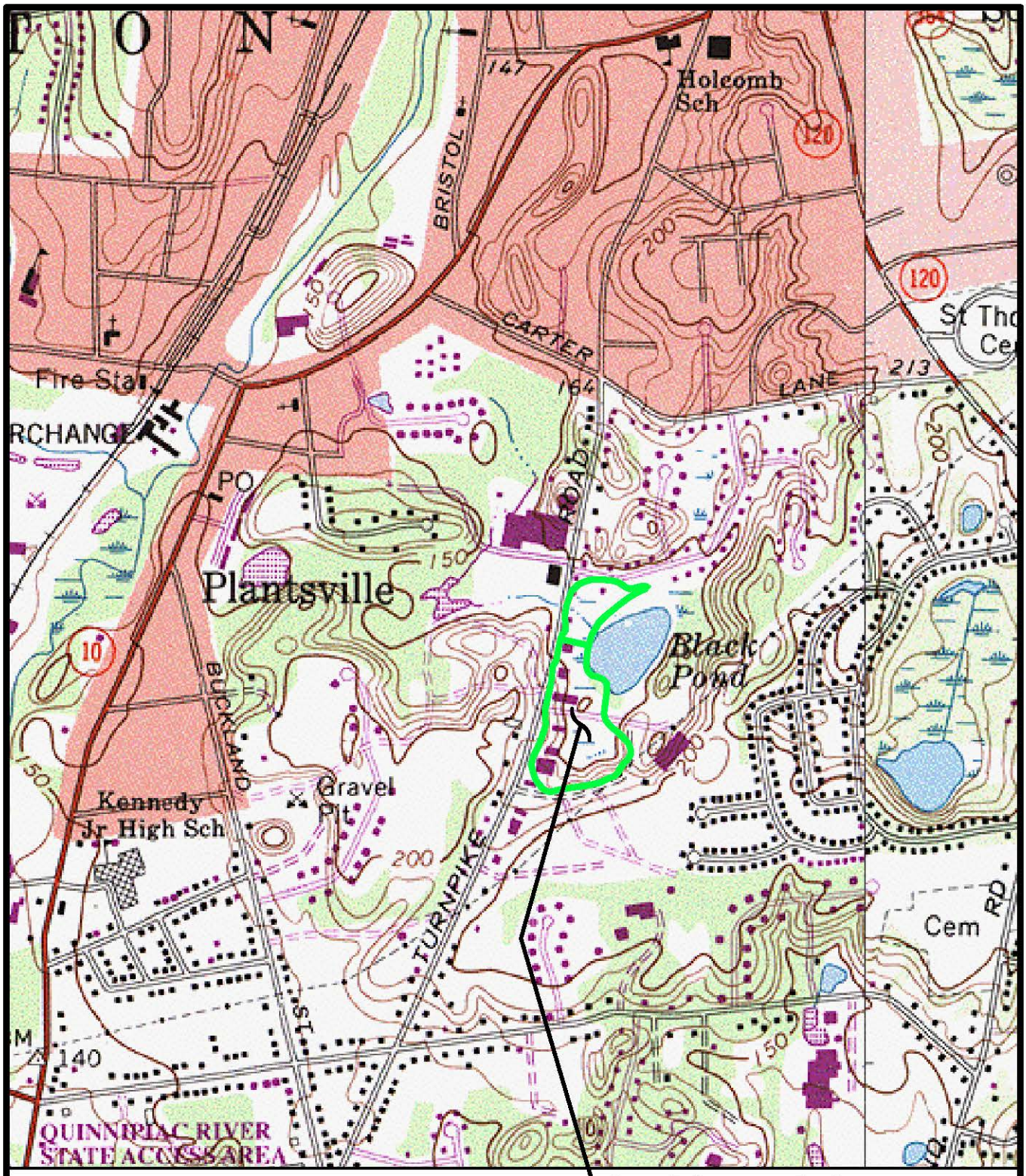
Criterion values from 2003 Draft CT Volatilization Criteria - GW, Residential

Printed on 10/17/2014

FIGURES



500 0 500 1000 1500

SCALE IN FEET (APPROX.)

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MAP REFERENCE:
PORTION OF 7.5 MINUTE SERIES MAP FOR THE SOUTHINGTON, CT QUADRANGLE DATED 1968 PHOTOREVISED 1992, N.G.V.D.1929, TAKEN FROM TOPO! CD. VERSION 1.2.4
©1998 WILDFLOWER PRODUCTIONS.

OLD SOUTHINGTON LANDFILL
SOUTHINGTON, CT

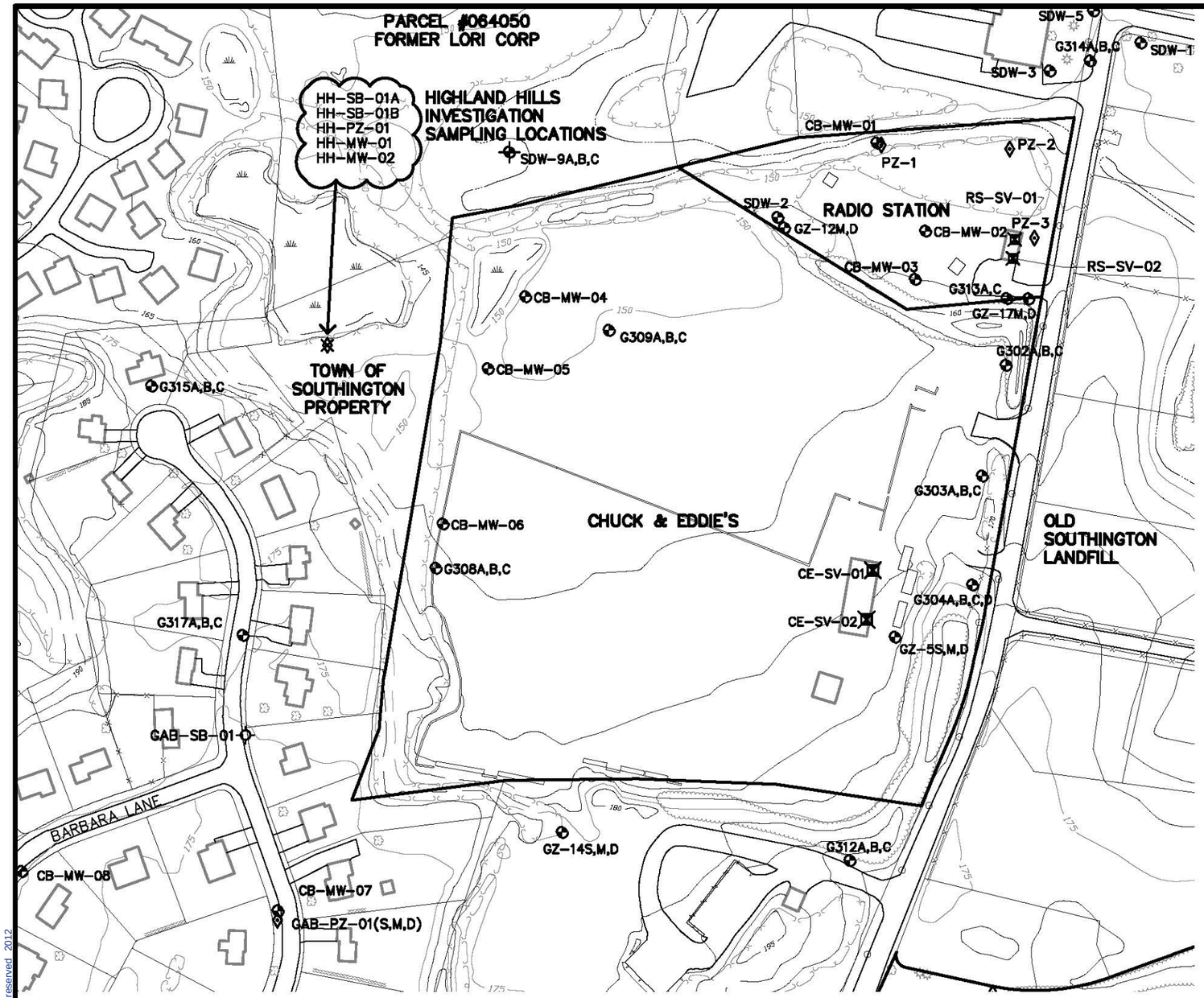
SITE LOCATION MAP

Comm.No. 61SL902

FIGURE 1-1

LEA

G:\AUTOCAD\PROJECTS\61SL902\61SL902-USGS.DWG Tab:LAYOUT1 Saved: 11/13/2009 3:19 PM Plotted: 11/13/2009 3:19 PM



LEGEND:

- EXISTING MONITORING WELL LOCATION
- SOIL BORING LOCATION FOR GA BOUNDARY SURVEY
- EXISTING PIEZOMETER LOCATION
- EXISTING SOIL VAPOR PROBE LOCATION

MAP REFERENCE:

SITE BACKGROUND OBTAINED ELECTRONICALLY FROM AERIAL PHOTOGRAMMETRY BY GEOMAPS INTERNATIONAL, JOB No. 05312, PHOTO DATE: DEC. 8, 2005, SCALE: 1" = 100', CONTOUR INTERVAL 5'.

N

100 0 100 200 300

SCALE IN FEET

VAPOR INTRUSION GROUNDWATER INVESTIGATION
OLD SOUTHINGTON LANDFILL, SOUTHINGTON, CT
VAPOR INTRUSION
GROUNDWATER INVESTIGATION
SAMPLING LOCATIONS

Comm.No. 61SL902

FIGURE 2-1

Loureiro

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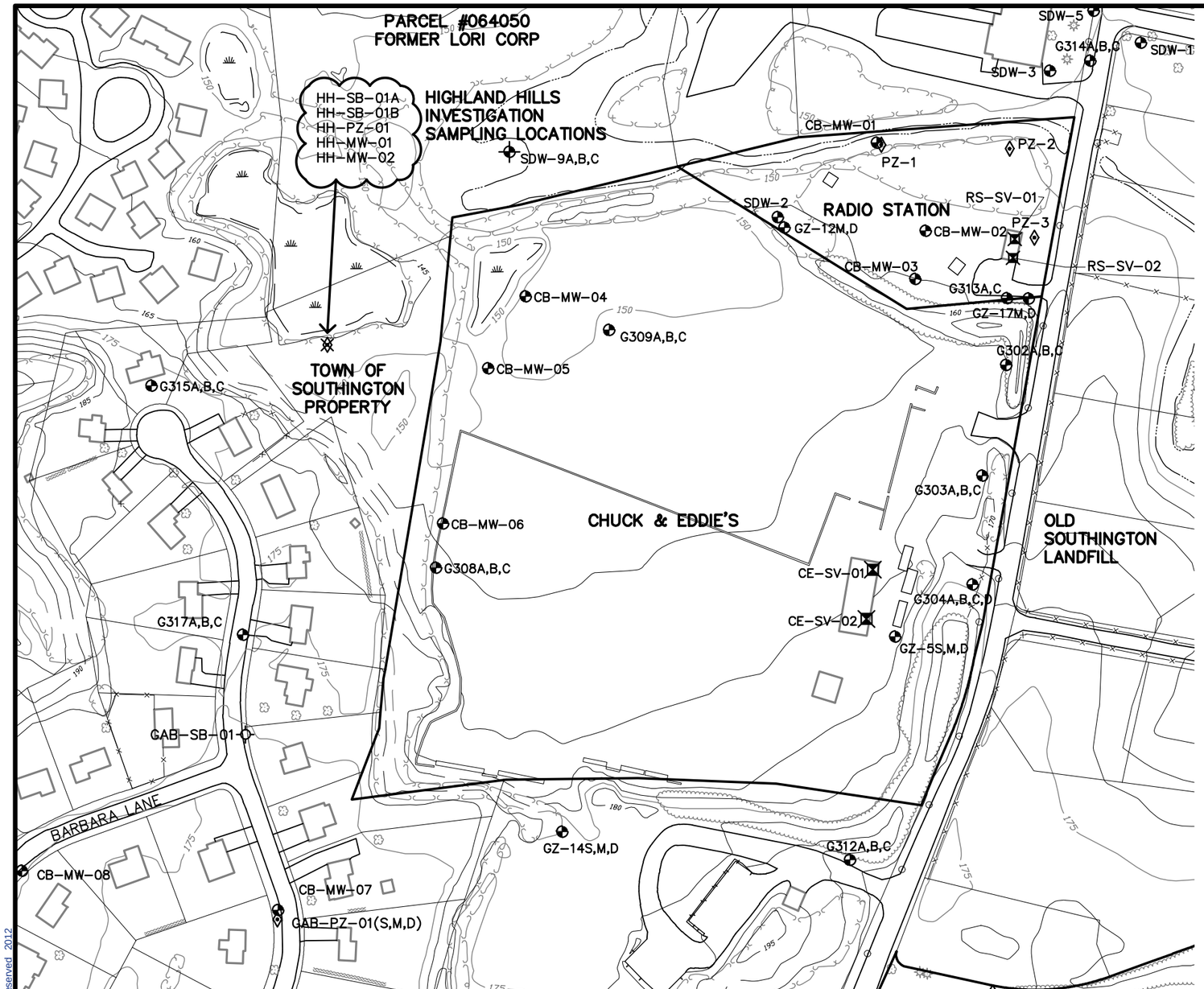

CB-MW-01				
Constituent	6/15/2011	9/13/2011	12/12/2011	3/15/2012
Acetone	3.6; 6.5; 6.1	38; 2.0		
Toluene			2.7	

CB-MW-02				
Constituent	6/15/2011	9/13/2011	12/12/2011	3/15/2012
Acetone	12; 9.4			
Ethylbenzene	1			

CB-MW-03				
Constituent	6/15/2011	9/13/2011	12/12/2011	3/15/2012
Acetone	2.4; 15; 3.9			
Toluene			3.4	

CB-MW-04				
Constituent	6/15/2011	9/13/2011	12/12/2011	3/15/2012
Acetone		2.6		
Benzene	0.89			0.51
Methyl tert-Butyl ether	0.96	1.3; 1.3	2.0; 1.9	1.3
Toluene			ND; 2.4	
Xylenes, Total	2			
Trichloroethylene				0.56
Vinyl chloride			1.8 RVC; ND	**2.2 RVC, IVC**
cis-1,2-Dichloroethene			5.1; 1.1	7.7
o-Xylene	2			
p-Dichlorobenzene	0.54			

CB-MW-05				
Constituent	6/15/2011	9/13/2011	12/12/2011	3/15/2012
Benzene		0.95		
Methyl tert-Butyl ether	0.51	0.65	0.53; 0.53	
Vinyl chloride		**3.7; RVC, IVC**	**3.8; 3.5 RVC, IVC**	**2.2 RVC, IVC**
cis-1,2-Dichloroethene		0.51	0.55; 0.54	
1,1-Dichloroethane	0.68		0.56; ND	0.63

CB-MW-06				
Constituent	6/21/2011	9/13/2011	12/12/2011	3/15/2012
VOCs				

CB-MW-07				
Constituent	6/21/2011	9/13/2011	12/12/2011	3/15/2012
1,1,1Trichloroethane	1.1			

CB-MW-08				
Constituent	6/21/2011	9/13/2011	12/12/2011	3/15/2012
VOCs				

DATA BLOCK LEGEND

LOCATION IDENTIFIER

SAMPLE DATE

CB-MW-05		
Constituent	6/15/2011	9/13/2011
Benzene		0.95
Vinyl chloride		*3.7 RVC, IVC*
1,1-Dichloroethane	0.68	

RED COLORED CONSTITUENT CONCENTRATION INDICATES AN EXCEEDANCE OF ONE OR MORE APPLICABLE CRITERIA IDENTIFIED IN APPENDIX B, TABLE L-1 OF THE 2006 RECORD OF DECISION, (APPENDIX A OF THE 2009 CONSENT DECREE)

BLANK CELL INDICATES CONSTITUENT NOT DETECTED ABOVE LABORATORY REPORTING LIMITS

NOTE:
THE RESPECTIVE UNITS FOR GROUNDWATER IN WHICH QUANTIFIABLE CONCENTRATIONS ARE DETECTED ARE AS FOLLOWS: VOCs – MICROGRAMS PER LITER (ug/l)

LEGEND:

- EXISTING MONITORING WELL LOCATION
- SOIL BORING LOCATION FOR GA BOUNDARY SURVEY
- EXISTING PIEZOMETER LOCATION
- EXISTING SOIL VAPOR PROBE LOCATION

MAP REFERENCE:

SITE BACKGROUND OBTAINED ELECTRONICALLY FROM AERIAL PHOTOGRAMMETRY BY GEOMAPS INTERNATIONAL, JOB No. 05312, PHOTO DATE: DEC. 8, 2005, SCALE: 1" = 100', CONTOUR INTERVAL 5'.

DATA BLOCK NOTES

1. CONCENTRATIONS DETECTED ARE SHOWN. CONSTITUENTS NOT DETECTED ARE SHOWN AS BLANK CELLS.
2. IN THE CASE OF A DUPLICATE SAMPLE, OR SAMPLE COLLECTED VIA DIFFERENT SAMPLING METHOD (i.e., FILTERED, DIFFERENT PUMPS), CONSTITUENTS DETECTED OR NON-DETECTED, ARE SEPARATED BY A SEMICOLON WITHIN THE SAMPLING INTERVAL WHERE THE DUPLICATION OCCURS.
3. VOCs WERE NOT DETECTED ABOVE LABORATORY REPORTING LIMITS IN MONITORING WELLS CB-MW-06 AND CB-MW-08 DURING THE FOUR QUARTERLY GROUNDWATER SAMPLING EVENTS CONDUCTED.
4. RVC = RESIDENTIAL VOLATILIZATION CRITERIA
5. IVC = INDUSTRIAL/COMMERCIAL VOLATILIZATION CRITERIA

N

100 0 100 200 300

SCALE IN FEET

VAPOR INTRUSION GROUNDWATER INVESTIGATION
OLD SOUTHINGTON LANDFILL, SOUTHINGTON, CT

CONSTITUENTS DETECTED IN GROUNDWATER

Comm.No. 61SL902

FIGURE 3-1

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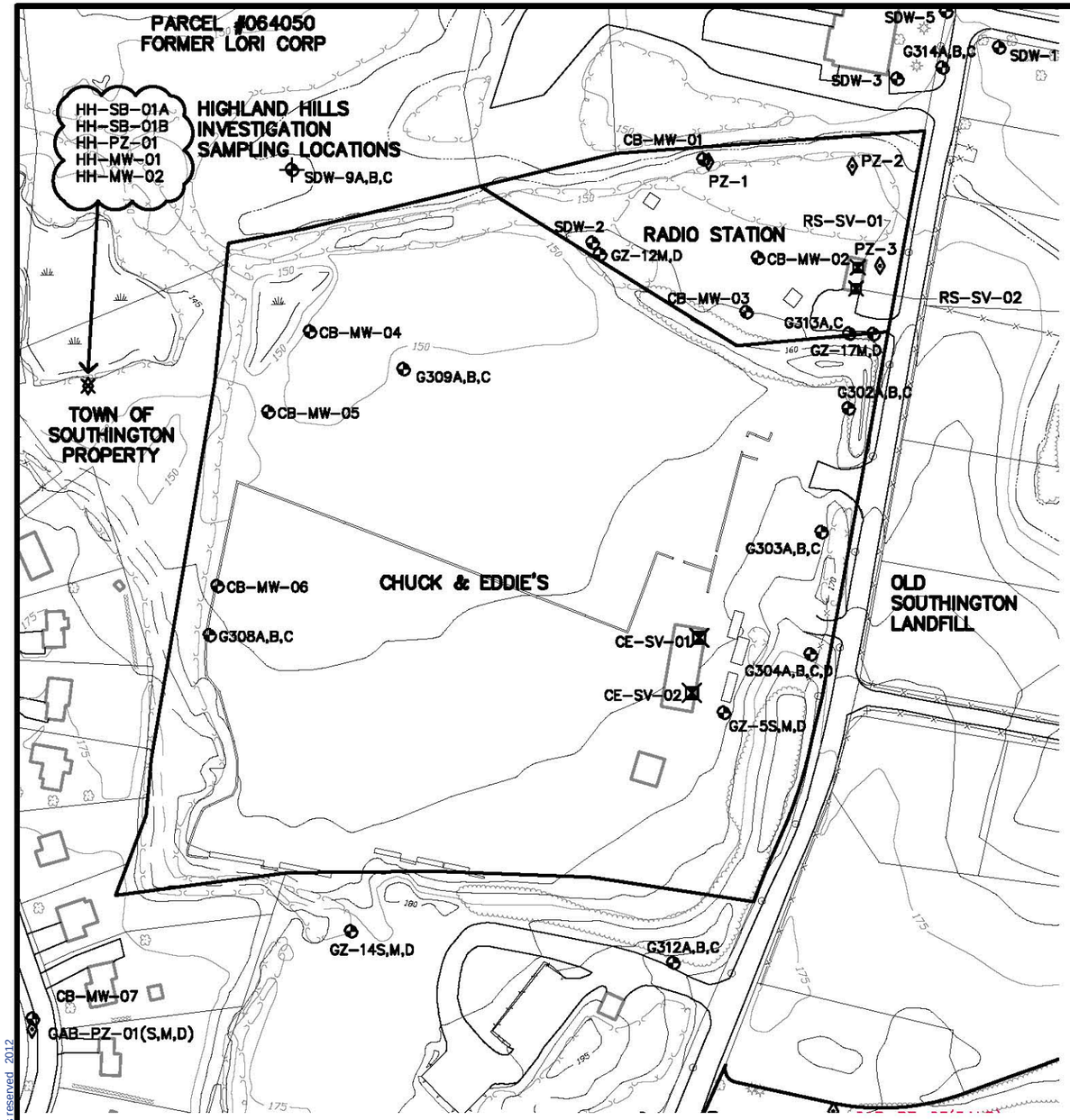

CE-SV-01				
Constituent	6/15/2011	9/14/2011	12/12/2011	3/22/2012
1,1,1-Trichloroethane	0.0091	0.0063		
1,1-Dichloroethane	0.0025			
1,2,4-Trimethylbenzene	0.0025	0.0077	0.0022	0.0043
1,3,5-Trimethylbenzene		0.0023		0.0012
Acetone		0.066	0.05	0.037
Benzene			0.014	0.0034
Dichlorodifluoromethane				0.0023
Ethylbenzene		0.0051	0.0071	0.0033
Methyl Ethyl ketone			0.0052	0.014
Methylene Chloride				0.0069
p-Dichlorobenzene	0.0035			0.00058
Tetrachloroethylene	0.0029	0.0058		
Toluene	0.0048	0.015	0.075	0.041
Trichlorofluoromethane	0.0062	0.0074		0.0014
Xylenes, Total	0.0052	0.02	0.0027	0.014
Xylene, o-		0.0053	0.006	0.0036
Xylenes,m- & p-		0.015	0.0021	0.01

CE-SV-02				
Constituent	6/15/2011	9/14/2011	12/12/2011	3/15/2012
1,2,4-Trimethylbenzene		0.0073	0.0017	
1,3,5-Trimethylbenzene		0.0021	0.00049	
Acetone			0.029	
Benzene		0.0039	0.0041	**4.1 RSVVC, ICSVVC**
Dichlorodifluoromethane			0.0038	
Ethylbenzene		0.0047	0.0029	**16 RSVVC**
Methyl Ethyl ketone			0.0014	
p-Dichlorobenzene			0.0016	
Tetrachloroethylene			0.00058	
Toluene	0.0069	0.0026	0.002	**130 RSVVC**
Trichloroethylene			0.00044	
Trichlorofluoromethane	0.0055	0.0054	0.0022	
Xylenes, Total	0.007	0.021	0.012	35
Xylene, o-		0.0057	0.0026	8.5
Xylenes,m- & p-		0.016	0.0091	26

RS-SV-01				
Constituent	6/20/2011	9/13/2011	12/12/2011	3/15/2012
1,2,4-Trimethylbenzene	0.00079	0.00044	0.00038	0.00031
1,3,5-Trimethylbenzene	0.0002			
4-Isopropyltoluene		0.0002		0.00028
Acetone	0.0083	0.02	0.0075	0.0069
Benzene		0.00051		
Chloromethane		0.00084		
Dichlorodifluoromethane	0.00067	0.00088		0.00069
Ethylbenzene	0.00037	0.00043	0.00028	0.00053
m-Dichlorobenzene	0.00061			
Methyl Ethyl ketone	0.00076	0.0017	0.00051	0.0011
p-Dichlorobenzene	0.004			
Toluene	0.0014	0.0032	0.00096	0.0044
Trichloroethylene			0.00064	
Trichlorofluoromethane	0.00031	0.0003	0.0002	0.00027
Xylenes, Total	0.0018	0.0017	0.0013	0.0019
Xylene, o-	0.00044	0.00042	0.00033	0.00044
Xylenes,m- & p-	0.0014	0.0012	0.00096	0.0014

RS-SV-02				
Constituent	6/15/2011	9/13/2011	12/12/2011	3/15/2012
1,2,4-Trimethylbenzene	0.0015	0.00042	0.00048	0.00037
1,3,5-Trimethylbenzene	0.00039			
4-Isopropyltoluene		0.00021		
Acetone	0.012	0.011	0.0084	
Benzene	0.00028		0.0006	
Dichlorodifluoromethane	0.00072	0.00077		0.00075
Ethylbenzene	0.00087	0.00026	0.00048	0.00043
m-Dichlorobenzene	0.00092			
Methyl Ethyl ketone	0.001	0.00092		0.0024
Methylene Chloride				0.00059
p-Dichlorobenzene	0.0058			
Styrene	0.00026			
Toluene	0.004	0.0018	0.0025	0.0027
Trichloroethylene	0.001	0.00061		
Trichlorofluoromethane	0.00033	0.00029	0.00021	0.0003
Xylenes, Total	0.0042	0.001	0.002	0.0015
Xylene, o-	0.001	0.00027	0.00052	0.00035
Xylenes,m- & p-	0.0032	0.00077	0.0015	0.0012

LEGEND:

- EXISTING MONITORING WELL LOCATION
- SOIL BORING LOCATION FOR GA BOUNDARY SURVEY
- EXISTING PIEZOMETER LOCATION
- EXISTING SOIL VAPOR PROBE LOCATION

DATA BLOCK NOTES

1. CONCENTRATIONS DETECTED ARE SHOWN. CONSTITUENTS NOT DETECTED ARE SHOWN AS BLANK CELLS.
2. RSVVC = RESIDENTIAL SOIL VAPOR VOLATILIZATION CRITERIA
3. ICSVVC = INDUSTRIAL/COMMERICAL SOIL VAPOR VOLATILIZATION CRITERIA

100 0 100 200 300

SCALE IN FEET

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MAP REFERENCE:

SITE BACKGROUND OBTAINED ELECTRONICALLY FROM AERIAL PHOTOGRAMMETRY BY GEOMAPS INTERNATIONAL, JOB No. 05312, PHOTO DATE: DEC. 8, 2005, SCALE: 1" = 100', CONTOUR INTERVAL 5'.

DATA BLOCK LEGEND

LOCATION IDENTIFIER

SAMPLE DATE

CE-SV-02		
Constituent	12/12/2011	3/15/2012
Benzene	0.0041	**4.1 RSVVC,ICSVVC**
Dichlorodifluoromethane	0.0038	•

RED COLORED CONSTITUENT CONCENTRATION INDICATES AN EXCEEDANCE OF ONE OR MORE APPLICABLE CRITERIA IDENTIFIED IN APPENDIX B, TABLE L-1 OF THE 2006 RECORD OF DECISION (APPENDIX A OF THE 2009 CONSENT DECREE)

BLANK CELL INDICATES CONSTITUENT NOT DETECTED ABOVE LABORATORY REPORTING LIMITS

NOTE:
THE RESPECTIVE UNITS FOR SOIL VAPOR IN WHICH QUANTIFIABLE CONCENTRATIONS ARE DETECTED ARE AS FOLLOWS: VOCs, – PARTS PER MILLION BY VOLUME (ppmv).

VAPOR INTRUSION GROUNDWATER INVESTIGATION
OLD SOUTHINGTON LANDFILL, SOUTHINGTON, CT

CONSTITUENTS DETECTED IN SOIL VAPOR

Comm.No. 61SL902

FIGURE 3-2

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APPENDIX A

Soil Boring Logs and Well Completion Details

GEOLOGIC BORING LOG

Project: Vapor Intrusion-GW Investigation **LEA Commission Number** 61SL902.003 **Client** OSL Site Group **Location** Old Southington Landfill	**Start Date** 05/31/2011 **End Date** 05/31/2011	**Boring ID** **CB-MW-01**

Drilling Contractor	Loureiro Engineering Associates, Inc.	**Logged by**	Keith Volkert
Drilling Method	HSA	**Drilling Foreman**	Alex Clarke
Sampling Method	Macro	**Drill Rig**	Geoprobe 6610DT
Groundwater Observation		**Surface Elevation**	
Depth 6.9 **at**	**Hours**	**Latitude**	
Depth **at**	**Hours**	**Longitude**	

Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-		63		Red brown fine to very fine SAND, trace Silt and small Gravel, loose, moist	0.0
2.00-		63		As Above	0.0
4.00-		60		As Above, wet at 5'	0.1
6.00- V 8.00		60		As Above	0.1

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GEOLOGIC BORING LOG

Project: Vapor Intrusion-GW Investigation **LEA Commission Number** 61SL902.003 **Client** OSL Site Group **Location** Old Southington Landfill	**Start Date** 05/26/2011 **End Date** 05/26/2011	**Boring ID** **CB-MW-02**

Drilling Contractor	GeoSearch	**Logged by**	Keith Volkert
Drilling Method	HSA	**Drilling Foreman**	Rodney Dean
Sampling Method	Split Spoon	**Drill Rig**	CME 85
Groundwater Observation		**Surface Elevation**	
Depth 8.7	**at** **Hours**	**Latitude**	
Depth	**at** **Hours**	**Longitude**	

Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
. . . . .					
5-		75	1/6/6/8	Red fine to medium SAND, small Gravel, loose, dry	0.0
7- V		67	5/12/20/22	As Above	0.1
9- 11		50	53/24/26/20	As Above wet at 10' Set well from 17'-7'	0.0

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GEOLOGIC BORING LOG

Project: Vapor Intrusion-GW Investigation **LEA Commission Number** 61SL902.003 **Client** OSL Site Group **Location** Old Southington Landfill	**Start Date** 05/26/2011 **End Date** 05/26/2011	**Boring ID** **CB-MW-03**

Drilling Contractor	GeoSearch	**Logged by**	Keith Volkert
Drilling Method	HSA	**Drilling Foreman**	Rodney Dean
Sampling Method	Split Spoon	**Drill Rig**	CME 85
Groundwater Observation		**Surface Elevation**	
Depth 10.2	**at** **Hours**	**Latitude**	
Depth	**at** **Hours**	**Longitude**	

Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
. . . . .					
5-		58	2/34/19/29	Red brown fine to very fine SAND and small Gravel, loose, dry	0.0
7-		17	11/11/8/12	As Above	0.1
9- V 11		25	45/28/19/29	As Above, wet at 11' Set well from 18'-8'	0.0

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GEOLOGIC BORING LOG

Project: Vapor Intrusion-GW Investigation **Commission Number** 61SL902.003 **Client** OSL Site Group **Location** Old Southington Landfill	**Start Date** 05/26/2011 **End Date** 05/26/2011	**Boring ID** **CB-MW-04**

Drilling Contractor	GeoSearch	**Logged by**	Keith Volkert
Drilling Method	HSA	**Drilling Foreman**	Rodney Dean
Sampling Method	Split Spoon	**Drill Rig**	CME 85
Groundwater Observation		**Surface Elevation**	
Depth 10.5 **at**	**Hours**	**Latitude**	
Depth **at**	**Hours**	**Longitude**	

Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-		50	6/12/16/28	Red brown fine to very fine SAND, trace Silt, little small Gravel, moist	0.0
2.00-		75	21/20/24/25	As Above	0.1
4.00-					
5- 7		33	7/13/9/10	As Above, wet at 7' Set well from 14'-4'	0.0

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GEOLOGIC BORING LOG

Project: Vapor Intrusion-GW Investigation **Commission Number** 61SL902.003 **Client** OSL Site Group **Location** Old Southington Landfill	**Start Date** 05/26/2011 **End Date** 06/08/2011	**Boring ID** **CB-MW-05**

Drilling Contractor	GeoSearch	**Logged by**	Keith Volkert
Drilling Method	HSA	**Drilling Foreman**	Rodney Dean
Sampling Method	Split Spoon	**Drill Rig**	CME 85
Groundwater Observation		**Surface Elevation**	
Depth 11.4 **at**	**Hours**	**Latitude**	
Depth **at**	**Hours**	**Longitude**	

Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-		75	12/9/21/24	Red brown fine to very fine SAND, some small Gravel, loose	0.0
2.00-		58	10/11/12/20	As Above	0.0
4.00-					
5- 7		88	20/12/13/15	As Above, wet at 7' Set well at 14'-4'	0.0

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GEOLOGIC BORING LOG

Project: Vapor Intrusion-GW Investigation **Commission Number** 61SL902.003 **Client** OSL Site Group **Location** Old Southington Landfill	**Start Date** 05/26/2011 **End Date** 05/26/2011	**Boring ID** **CB-MW-06**

Drilling Contractor	GeoSearch	**Logged by**	Keith Volkert
Drilling Method	HSA	**Drilling Foreman**	Rodney Dean
Sampling Method	Split Spoon	**Drill Rig**	CME 85
Groundwater Observation		**Surface Elevation**	
Depth 14.0 **at** **Hours**		**Latitude**	
Depth **at** **Hours**		**Longitude**	

Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-		71	11/8/9/10	Red brown fine to very fine SAND, some small gravel, loose, moist	0.1
2.00-		88	13/12/16/8	As Above	0.0
4.00-					
5- 7		83	21/22/12/10	As Above, wet at 7' Set well 14'-4'	0.0

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GEOLOGIC BORING LOG

Project: Vapor Intrusion-GW Investigation **Commission Number** 61SL902.003 **Client** OSL Site Group **Location** Old Southington Landfill	**Start Date** 05/23/2011 **End Date** 05/23/2011	**Boring ID** **CB-MW-08**

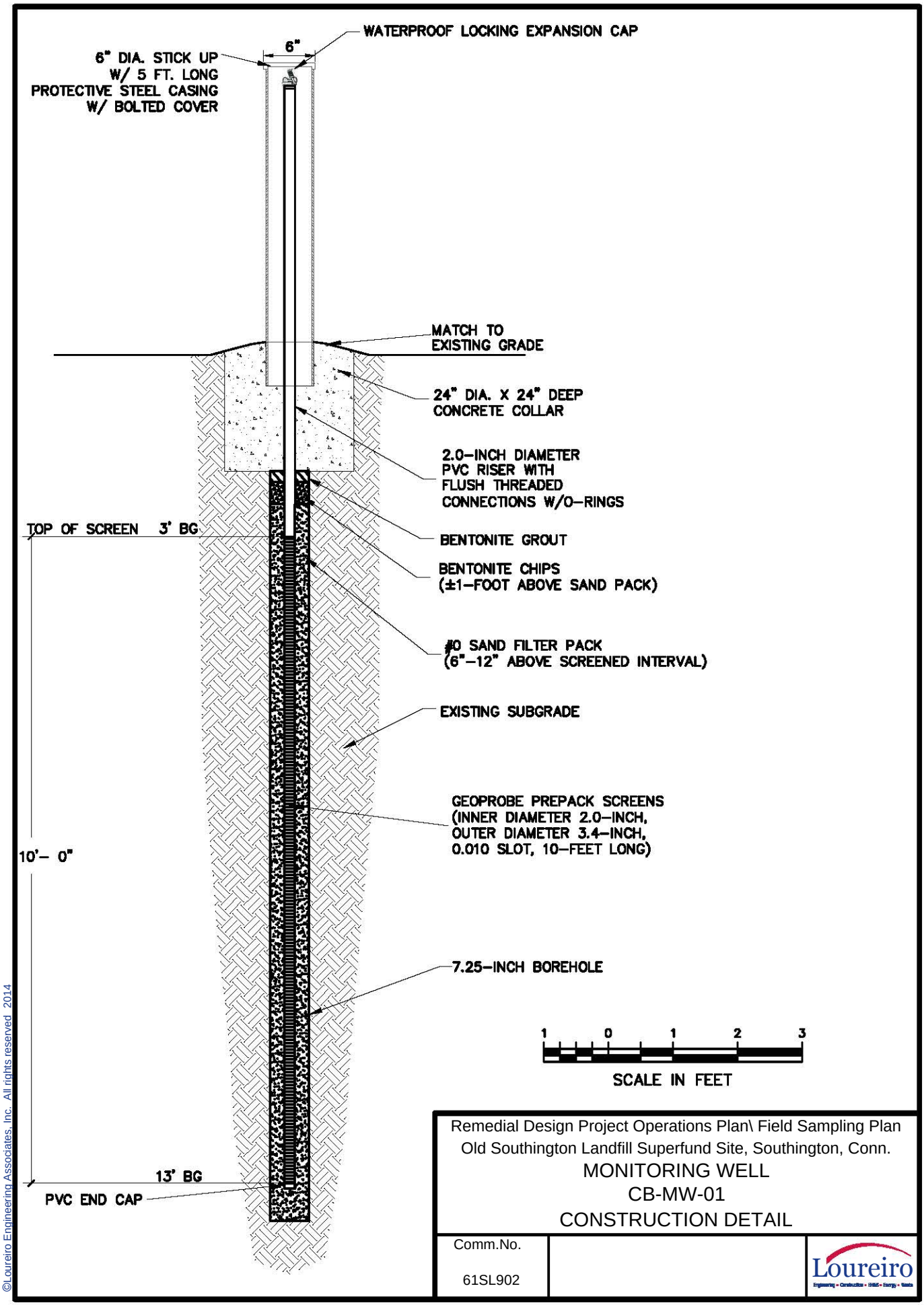
Drilling Contractor	Loureiro Engineering Associates, Inc.	**Logged by**	Luke Chmielecki
Drilling Method	Dual Tube	**Drilling Foreman**	Keith Volkert
Sampling Method	Grab	**Drill Rig**	Geoprobe 97
Groundwater Observation		**Surface Elevation**	
Depth 28.4 **at**	**Hours**	**Latitude**	
Depth **at**	**Hours**	**Longitude**	

Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
0-		50		Top 12": Red fine to coarse SAND, loose, moist	0.0
2.00-		50		Bottom 12": Red coarse SAND, little medium Sand, loose, moist	0.0
4.00-		63		Red light brown medium to coarse SAND, loose, moist	0.1
6.00-		63		As Above	0.1
8.00-		67		As Above	0.2
10.00-		67		As Above	0.2
12.00-		67		As Above	0.1
14.00-		67		As Above	0.1
16.00-		63		Red fine to medium SAND, trace very fine Sand, loose, moist	0.0
18.00-		63		Red very fine to medium SAND, loose, moist	0.0
20.00-		63		As Above	0.0
22.00-		63		As Above	0.0

Project: Vapor Intrusion-GW Investigation **Commission Number** 61SL902.003 **Client** OSL Site Group **Location** Old Southington Landfill	**Start Date** 05/23/2011 **End Date** 05/23/2011	**Boring ID** **CB-MW-08**

Drilling Contractor	Loureiro Engineering Associates, Inc.	**Logged by**	Luke Chmielecki
Drilling Method	Dual Tube	**Drilling Foreman**	Keith Volkert
Sampling Method	Grab	**Drill Rig**	Geoprobe 97
Groundwater Observation		**Surface Elevation**	
Depth 28.4 **at** **Hours**		**Latitude**	
Depth **at** **Hours**		**Longitude**	

Depth	Sample Information			Soil Description	PID/FID ppm
	Sample No.	Recovery (%)	Blows /6"	Color, Primary Grain Size, Secondary Grain Sizes, Moisture, Sorting, Sphericity, Angularity, Sedimentary Structure, Density, Cohesiveness, Other	
24.00-		65		Red light brown very fine to medium SAND, loose, moist	0.0
26.00-		65		As Above	0.0
28.00- V		67		Red very fine SAND, little Silt, slightly dense, wet at 28.5'	0.0
30.00- 32.00		67		As Above, bottom 4" red medium to coarse Sand, loose, wet Bottom of boring 32'	



Remedial Design Project Operations Plan\ Field Sampling Plan
Old Southington Landfill Superfund Site, Southington, Conn.

MONITORING WELL
CB-MW-01
CONSTRUCTION DETAIL

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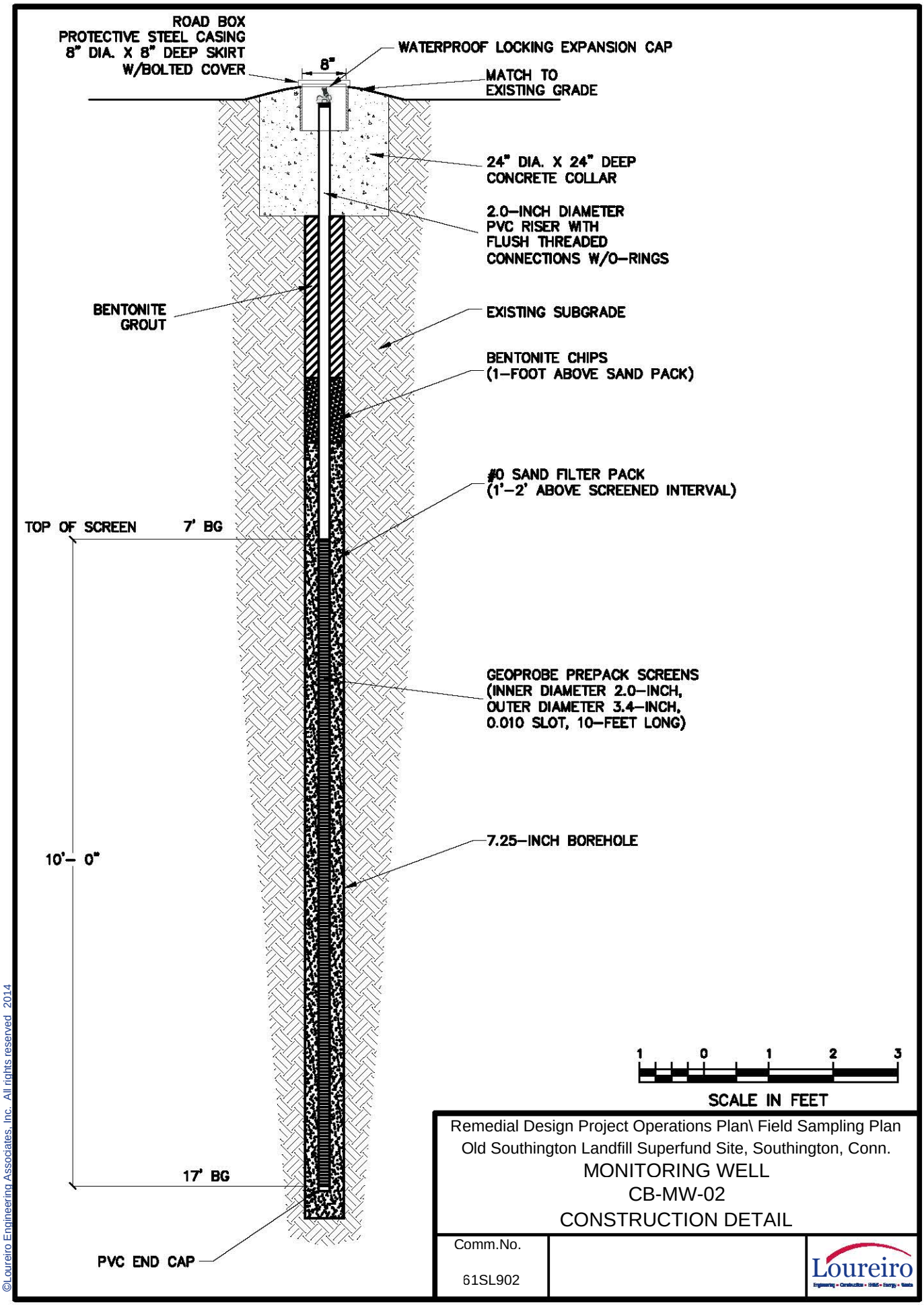

Remedial Design Project Operations Plan\ Field Sampling Plan
Old Southington Landfill Superfund Site, Southington, Conn.

MONITORING WELL
CB-MW-02
CONSTRUCTION DETAIL

Comm.No.		Loureiro
61SL902		

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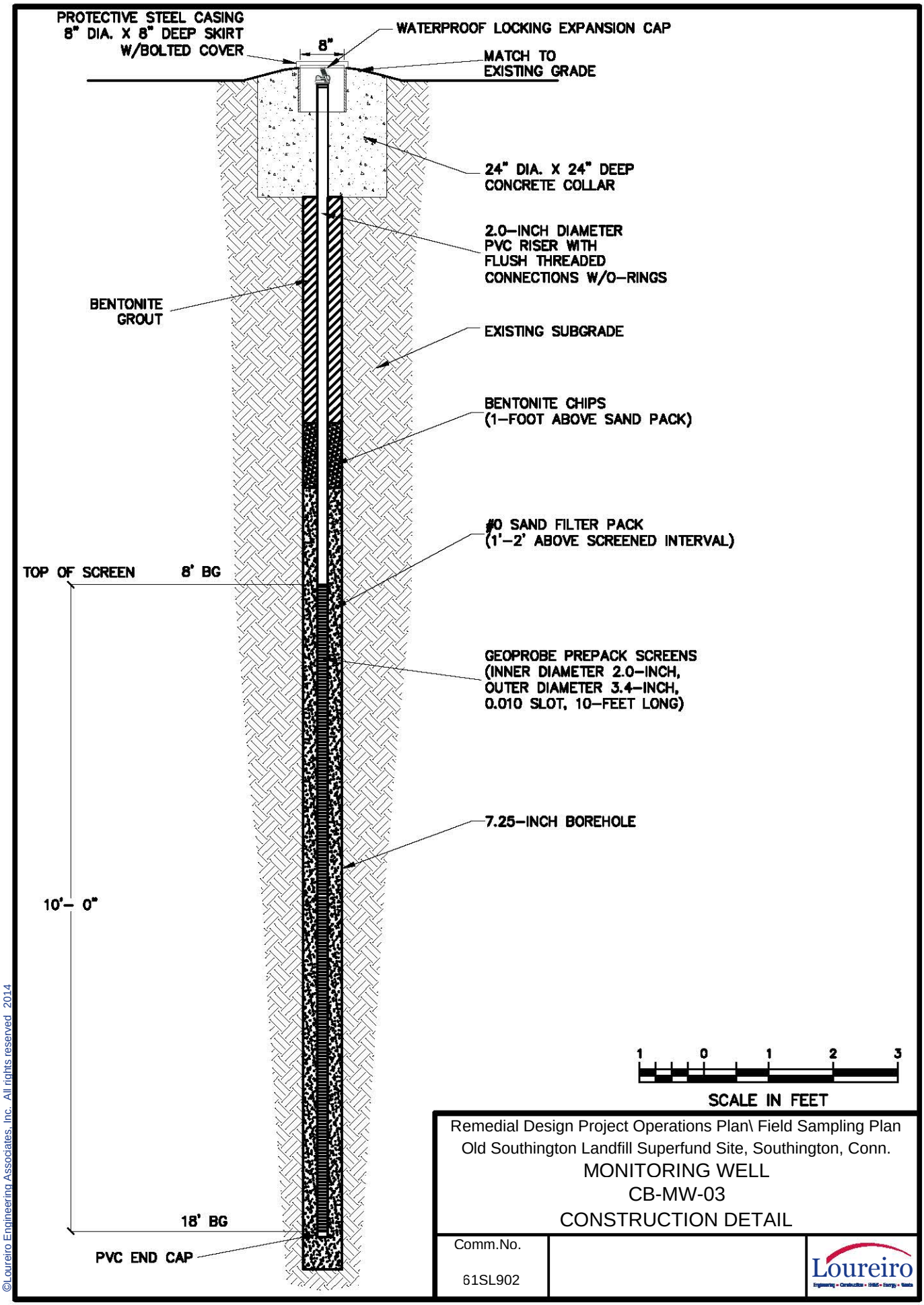

Remedial Design Project Operations Plan\ Field Sampling Plan
Old Southington Landfill Superfund Site, Southington, Conn.

MONITORING WELL
CB-MW-03
CONSTRUCTION DETAIL

Comm.No.
61SL902

Loureiro

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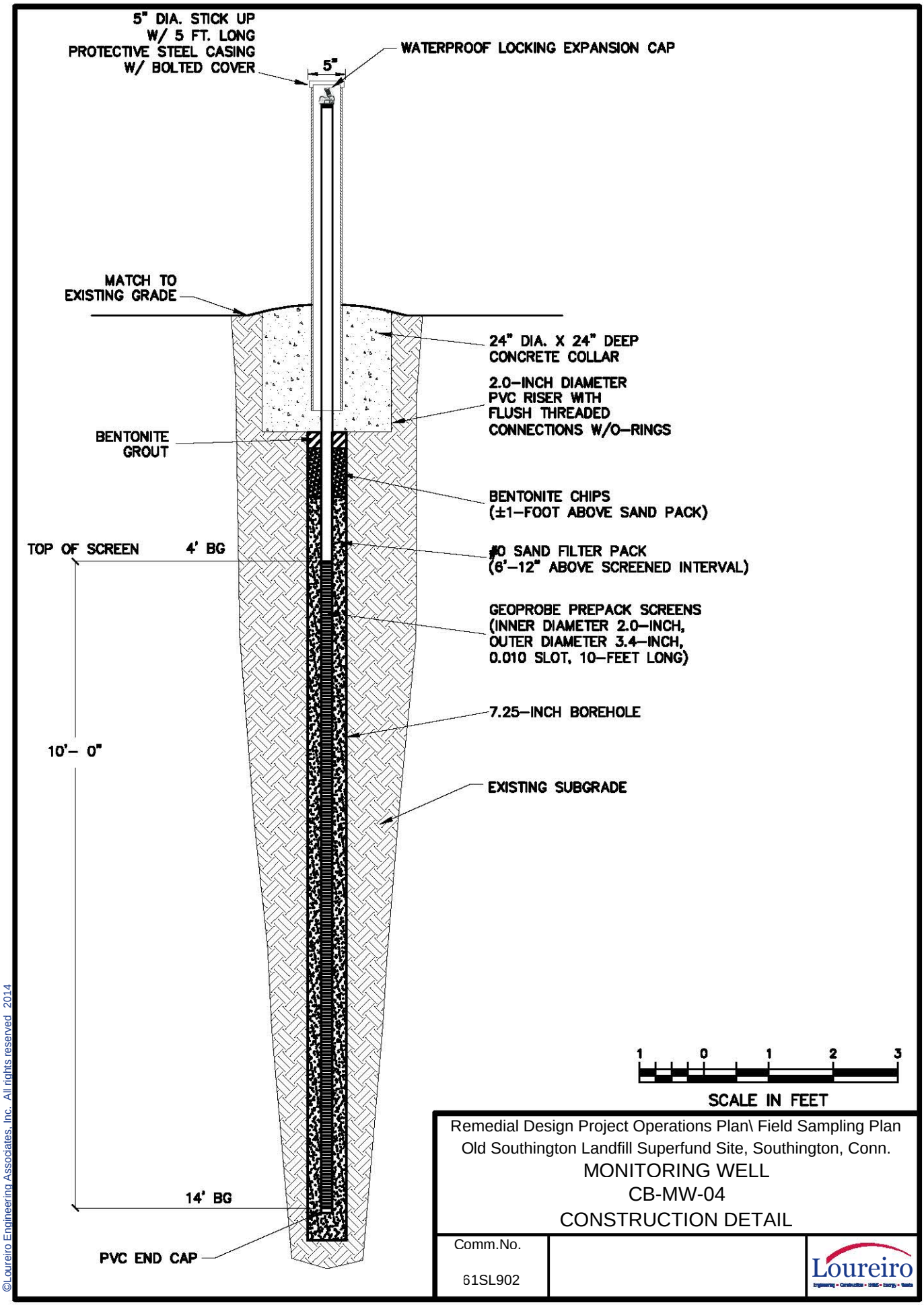

Remedial Design Project Operations Plan\ Field Sampling Plan
Old Southington Landfill Superfund Site, Southington, Conn.

MONITORING WELL
CB-MW-04
CONSTRUCTION DETAIL

Comm.No.		Loureiro
61SL902		

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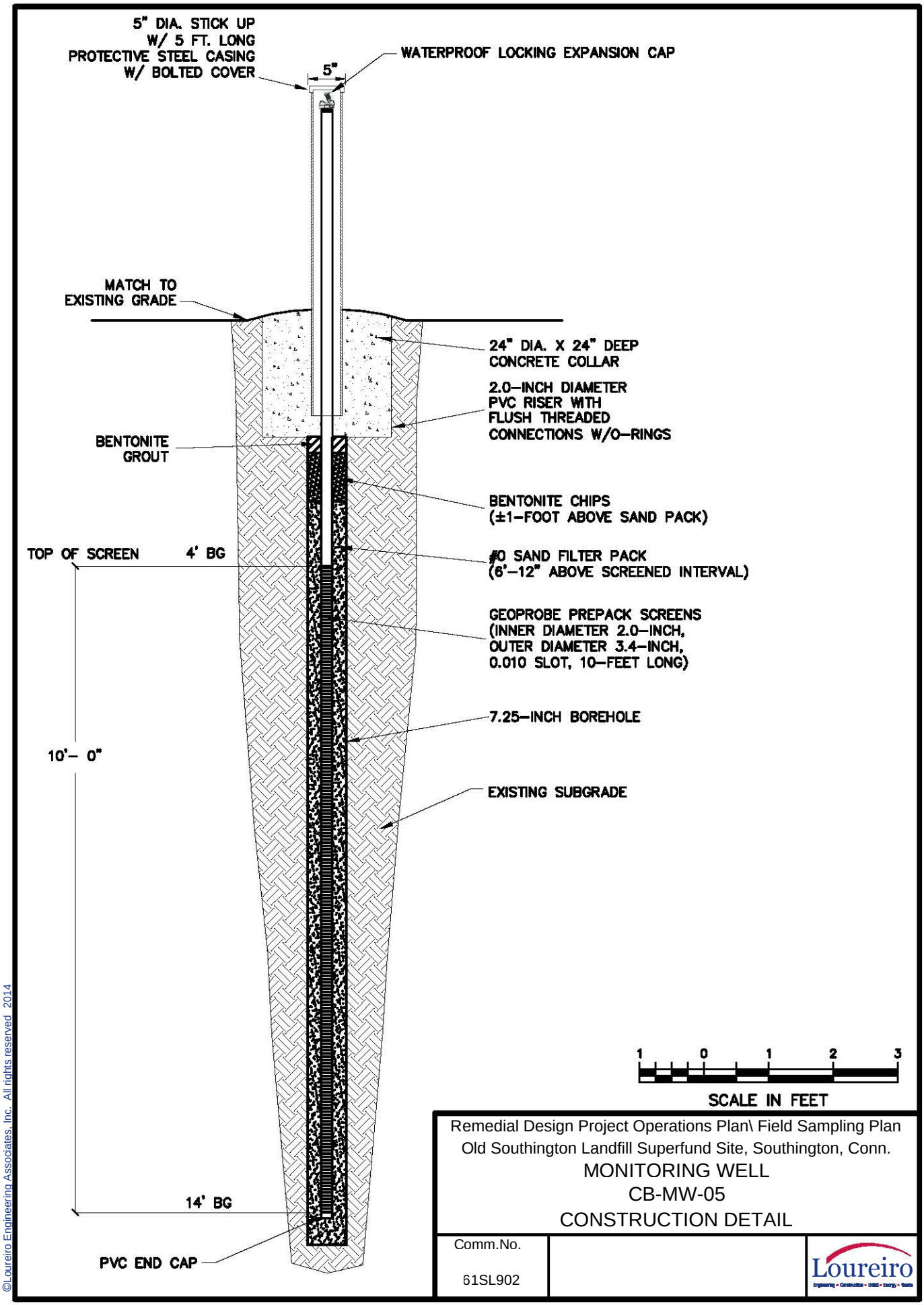

Remedial Design Project Operations Plan\ Field Sampling Plan
Old Southington Landfill Superfund Site, Southington, Conn.

MONITORING WELL
CB-MW-05
CONSTRUCTION DETAIL

Comm.No.
61SL902

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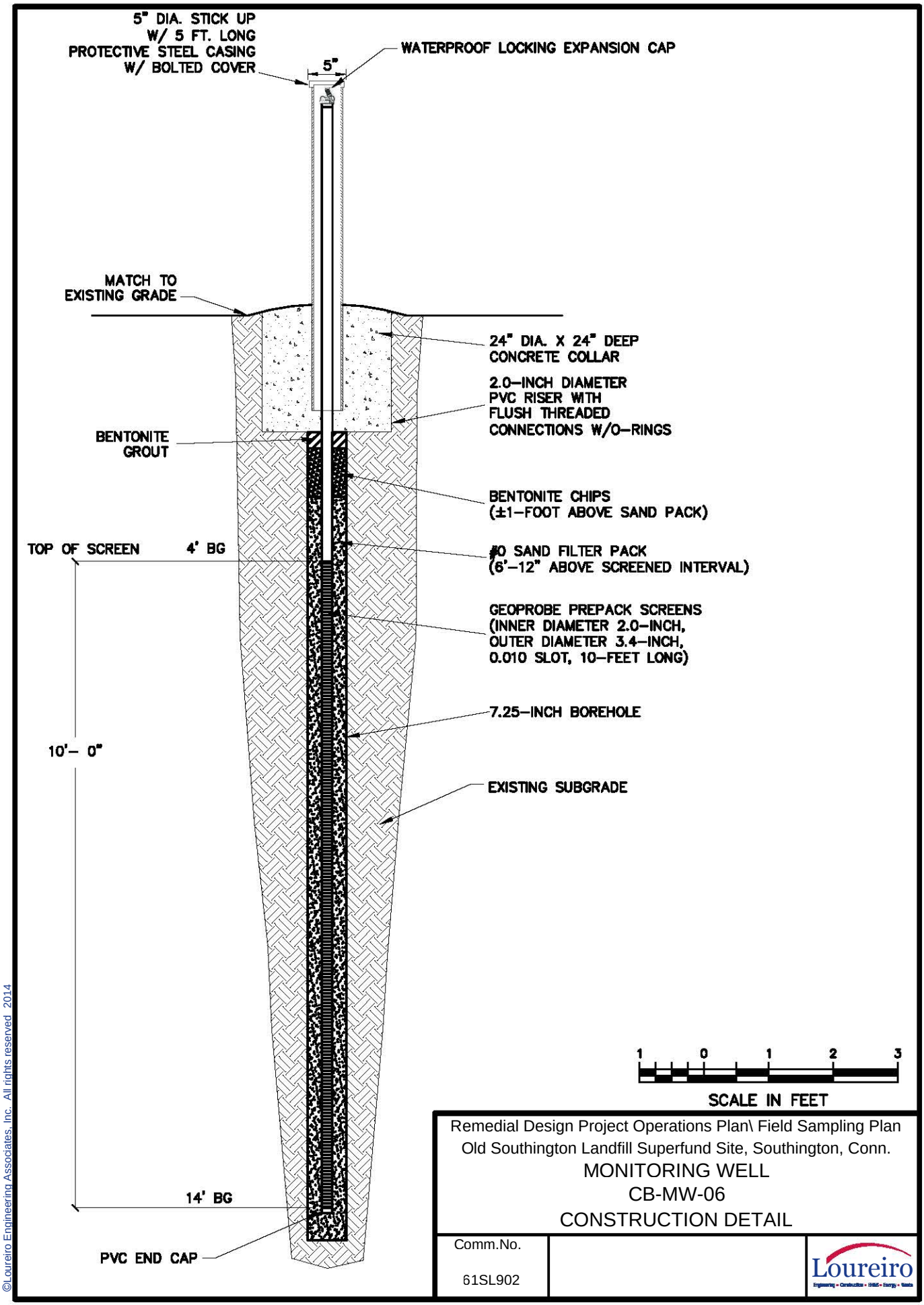

Remedial Design Project Operations Plan\ Field Sampling Plan
Old Southington Landfill Superfund Site, Southington, Conn.

MONITORING WELL
CB-MW-06
CONSTRUCTION DETAIL

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61SL902		

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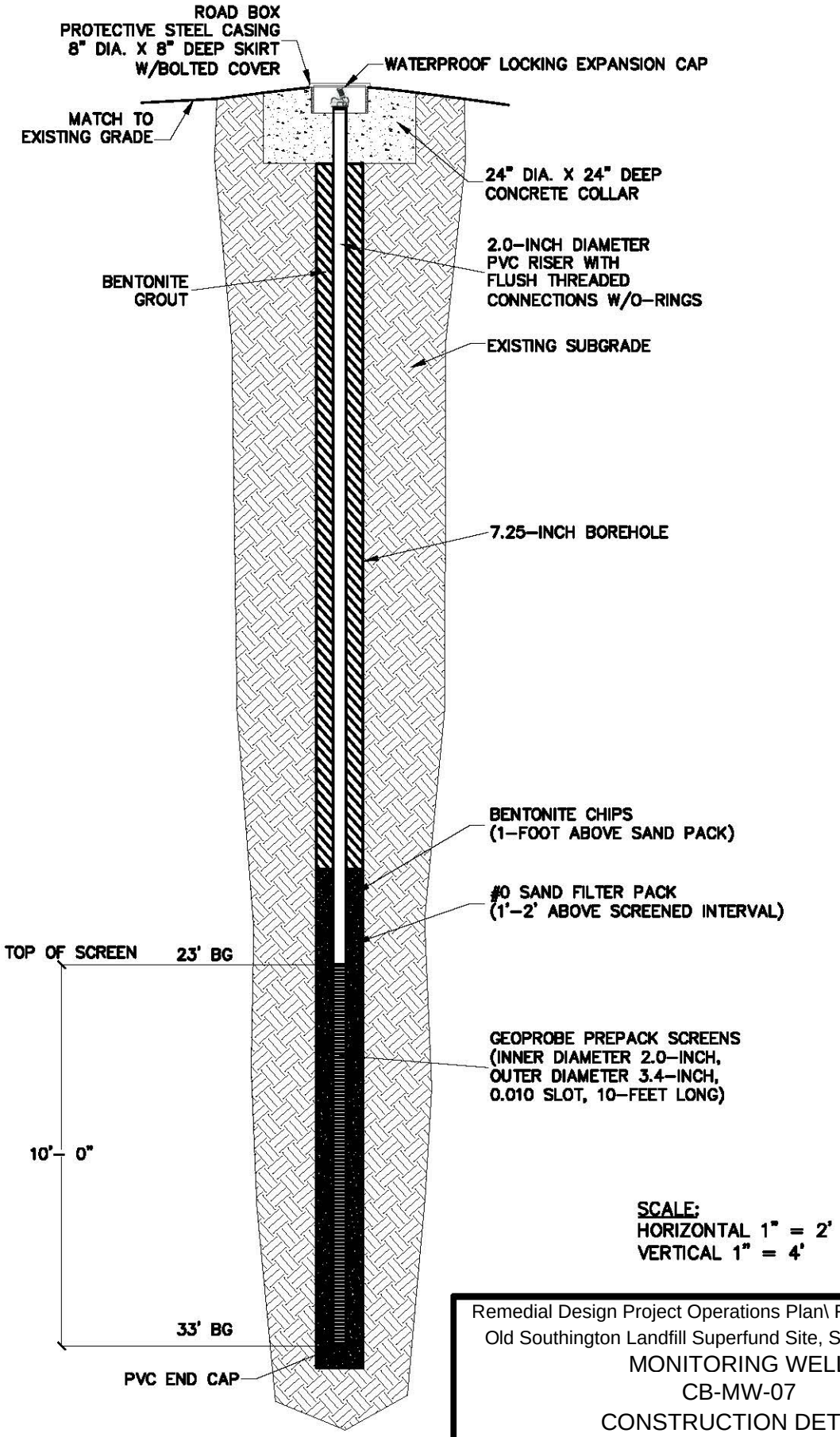

SCALE:
HORIZONTAL 1" = 2'
VERTICAL 1" = 4'

Remedial Design Project Operations Plan\ Field Sampling Plan
Old Southington Landfill Superfund Site, Southington, Conn.

MONITORING WELL
CB-MW-07
CONSTRUCTION DETAIL

Comm.No.		Loureiro
61SL902		

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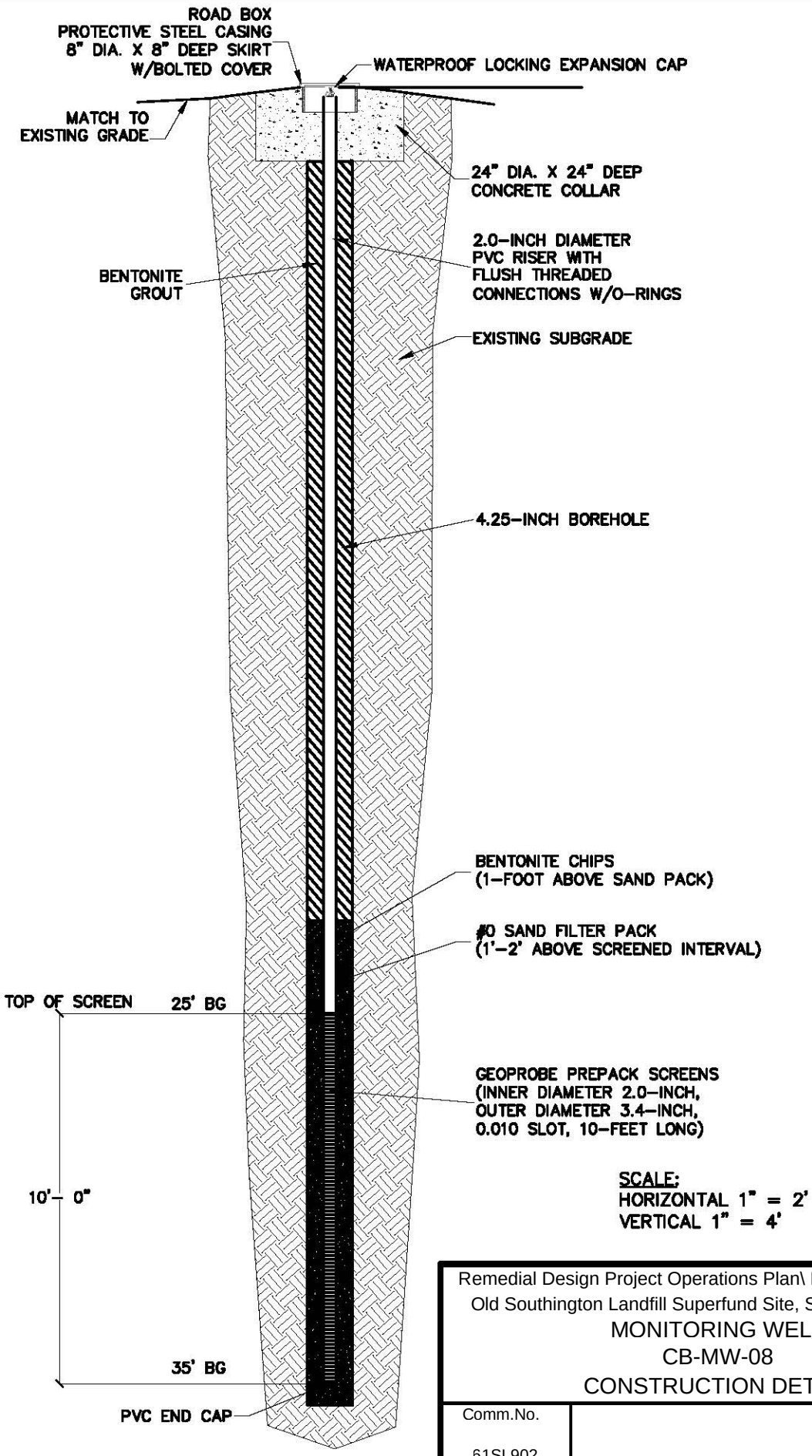

SCALE:
HORIZONTAL 1" = 2'
VERTICAL 1" = 4'

Remedial Design Project Operations Plan\ Field Sampling Plan
Old Southington Landfill Superfund Site, Southington, Conn.

MONITORING WELL
CB-MW-08
CONSTRUCTION DETAIL

Comm.No.
61SL902

Loureiro

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APPENDIX B

Field Paperwork

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. 61SL902.003
Project Vapor Intrusion Groundwater Investigation ~~Highland Hills Study~~
Location Old Southington Landfill, Southington, CT
Client OSL Site Group - OOSL

Page ___ of ___
Date 5/19/11

Arrived at Site 830 Departed from Site 1120 Vehicle
Odometer (Start) Return

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [x] Vapor well installation
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used
Last Location ID Used
Current Location (if not complete) Field
Sampling for
Laboratories used
Paperwork & Equipment left at/in office
Site Contact
Contractors on Site LSA/Norbis

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Time and place to meet contractors

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
		✓	Instruments calibrated

Checked By JT

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 60 Precipitation Rain Wind Slight
Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Cap, PVC, 1", (Threaded or FJT)	147
4	Cap, PVC,1', Slip (S447010)	146
1	~~Concrete, 60 lb. Bag~~ Portland Cement	~~085~~
1	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
	Drum, Open Top 55 Gallon	086
2	~~Filter, Zap Cap~~ 1" PVC Well Screen (5')	~~024~~
	Grout mix, bag	237
	Locks, Monitoring Well	155
1	Miscellaneous Health & Safety Items	060
2	~~Plug, Locking, 2"~~ 1" PVC Riser (5')	~~233~~
1	Sand, Filter Pack, Bags	220
	Water, Distilled	025
	Well Point, 1" Sch 80 (FJT or ?)	216
2	Well Protector, Roadbox, ~~8"~~ 6"	135

Equipment Used

Qty	Item	LEA Number
	Balance, Ohaus	031
	Balance, Pocket Pro	061
1	Drill, Core Saw, w/ Attachment	009
1	Drill, Hilti, incl. Concrete Anchors	010
1	Hand Auger, w/ attachments	013
	Locator, Metrotech Pipe	053
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
1	~~Turbidimeter~~ Generator	~~023~~
1	VOC Analyzer, Photovac 2020 (PID)	012
	Water Level Indicator	028

Field Personnel ~~Luke Chmielecki~~ K. Vollkert
A. Clarke

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	61SL902.003	Page ___ of ___
Project	~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER Investigation	Date 5/19/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group - OOSL	

Description of Site Activities

830 - Meeting on site
930 - Meet Joe Meadow on site to go over location
1000 - Start first location
1300 - Finish first location start second location
1600 - Second location hand auger refusal at 3.2'
notify office and set well
1600 - Complete well
1620 - Off site

Field Personnel ~~Luke Chmielecki~~ K. Volkert A. Clarke

Signature

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor LSA
Drilling Method Hand Auger
Sampling Method
Groundwater Observation
Depth ..... **at** ..... **Hours**

Start Date 5/19/11
End Date 5/19/11
Well ID CE-SV-01
Logged by K. Volkert
Drilling Foreman A. Clarice
Drill Rig
GPS Latitude
GPS Longitude

Protector
- Material: Roadbox
- Diameter: 4"
- Length: Ground
- Stickup:
- Key #:
- Cover Type:

Top Seal
- Top:
- Bottom:
- Material:

Backfill
- Top:
- Bottom:
- Material:

Secondary Sand
- Top:
- Bottom:
- Size:

Filter Pack
- Top: 1.5'
- Bottom: 3.5'
- Material: #2 sand

Reported depth to bottom of boring: 3.5'

Comments

Concrete Diameter:
Concrete Thickness:

Reference
- Stickup:
- Description:

Casing
- Diameter: 1"
- Material: Sch 40 PVC
- Length: 2'
- Stickup: Ø

Seal
- Top: Bottom of concrete floor
- Bottom: 1.5
- Material: Bentonite Grout

Screen
- Top: 2'
- Bottom: 3'
- Material: Sch 40 PVC
- Diameter: 1"
- Length: 12"
- Slot Size: 10

Miscellaneous Materials (Quantity Used/Item)
- Cement: 1 bag
- Bentonite Chips: .25 bag
- Bentonite Pellets:
- Bentonite Powder:
- Grout Weight: 2 5 gallons
- Filter Pack Sand: .5 bag
- Capping Sand:
- Well Point: 4
- Well Plug: 1

Signature

LEA

Loureiro Engineering Associates, Inc.

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor LEA
Drilling Method Hand Auger
Sampling Method
Groundwater Observation
Depth _____ **at** _____ **Hours**

Start Date 5/19/11
End Date 5/19/11
Well ID CE-SV-02
Logged by K. Volkert
Drilling Foreman A. Clarke
Drill Rig
GPS Latitude
GPS Longitude

Protector
- Material: Roadboy
- Diameter: 4"
- Length: Ground
- Stickup:
- Key #:
- Cover Type:

Top Seal
- Top:
- Bottom:
- Material:

Backfill
- Top:
- Bottom:
- Material:

Secondary Sand
- Top:
- Bottom:
- Size:

Filter Pack
- Top: 1.5
- Bottom: 3.2
- Material: #2 Sand

Reported depth to bottom of boring: 3.2'

Comments

Concrete Diameter:
Concrete Thickness:

Reference
- Stickup:
- Description:

Casing
- Diameter: 1"
- Material: Sch 40 PVC
- Length: 2'
- Stickup: 0

Seal
- Top: Bottom of Concrete Floor
- Bottom: 1.5'
- Material: Bentonite Grout

Screen
- Top: 2'
- Bottom: 3'
- Material: Sch 40 PVC
- Diameter: 1"
- Length: 12"
- Slot Size: 10

Miscellaneous Materials (Quantity Used/Item)
- Cement:
- Bentonite Chips:
- Bentonite Pellets:
- Bentonite Powder:
- Grout Weight: 2 gallons
- Filter Pack Sand: .5 bags
- Capping Sand:
- Well Point:
- Well Plug:

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. 61SL902.003
Project Vapor Intrusion Groundwater Investigation ~~Highland Hills Study~~
Location Old Southington Landfill, Southington, CT
Client OSL Site Group - OOSL

Page 1 of 7
Date 5/20/11

Arrived at Site 0810 Departed from Site 1615 Vehicle ST-15
Odometer (Start) Return >1 mile

Site Activities

X	Soil Sampling		Geoprobe Work
	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
X	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	
Sampling for	
Laboratories used	
Paperwork & Equipment left at/in	Office
Site Contact	
Contractors on Site	LEA / NOBIS

Non-productive Time

	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Time and place to meet contractors

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature ~65°F Precipitation — Wind Light <10mph
Comments

Checked By JT

6610 Probe – 1 day / 97 probe half-day

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Cap, PVC, 1", (Threaded or FJT)	147
	Cap, PVC,1', Slip (S447010)	146
	Concrete, 60 lb. Bag	085
1	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
1	Drum, Open Top 55 Gallon	086
	Filter, Zap Cap	024
	Grout mix, bag	237
	Locks, Monitoring Well	155
1	Miscellaneous Health & Safety Items	060
	Plug, Locking, 2"	233
	Sand, Filter Pack, Bags	220
	Water, Distilled	025
	Well Point, 1" Sch 80 (FJT or ?)	216
	Well Protector, Roadbox, 4"	135

Equipment Used

Qty	Item	LEA Number
	Balance, Ohaus	031
	Balance, Pocket Pro	061
	Drill, Core Saw, w/ Attachment	009
	Drill, Hilti, incl. Concrete Anchors	010
	Hand Auger, w/ attachments	013
	Locator, Metrotech Pipe	053
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
1	Water Level Indicator	028

Field Personnel ~~Luke Chmielski~~ J. Marcantonio N. Emmons K. Volkert

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Page 2 of 5

LEA Comm. No.	61SL902.003
Project	~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
Location	Old Southington Landfill, Southington, CT
Client	OSL Site Group - OOSL

Date 5/20/11

Description of Site Activities

0800 - Corey from Nobis arrives at Yard; discuss operations for the day
0810 - LEA onsite at Radio station
0815 - Tread comes off the Geo10 track; called Dave Brisson for instructions to fix it.
0920 - Tread is fixed; Begin drilling.
10:05 - Geoprobe refusal on rock. Offset 2ft east of original location. Offset successful
11:45 - Geoprobe auger refusal on rock. Offset 3ft East. Offset successful
13:20 - Jeremy Corcoran onsite with Geoprobe 97 to get soil borings done for other locations
13:50 - Geoprobe refusal on rock @ Location CB-MW-02. Offset successful
15:30 - Auger down to 23.5ft; Beginning installation of well. Auger plug is lodged in auger. Tried to remove, but thunderstorm rolled through with lightning. As a result, the well parts were wrapped and secured in poly; Decon of tooling
16:15 - LEA offsite

JM

Field Personnel ~~Luke Chmielecki~~ K. Volkert
N. Emmons J. Marcantonio

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

Date 5/20/11

LEA Comm. No.	61SL902.003
Project	~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
Location	Old Southington Landfill, Southington, CT
Client	OSL Site Group - OOSL

pH Meter/Serial #

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration							
Calibration Check							
Calibration Check							

Turbidity Meter/Serial #

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration					
Calibration Check					
Calibration Check					

PID Meter/Serial # 3053

	Time	Standard	Meter Reading	Zero with
Initial Calibration	0820	0.0	0.0	Ambient Air
Calibration Check	0822	100.0	100.0	Isobutylene
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel	~~Luke Chmielecki~~	N. Emmons
	J. Marcantonio	K. Volkert

Signature

DAILY GEOPROBE REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. ~~00100~~. 61SL902.003 — Page 4 of 7

Project Vapor Intrusion Groundwater Investigation ~~General Overhead~~ — Date 5/24/11

Location OSL ~~LEA, Plainville, CT.~~

Client OSL Site Group

Arrived at Site 1320 Departed from Site 1630 Geoprobe 97 probe

Vehicle Checklist/Condition

OK	Geoprobe	OK	Trailer (if used)
✓	Engine Fluids	✓	Brakes (Incl. battery)
✓	Transmission	✓	Hitch
✓	Brakes (Incl. parking)	✓	Safety Chains
✓	Lights	✓	Lights
✓	Signals	✓	Signals
✓	Tires	✓	Tires
✓	General	✓	General
	Other (describe)		Other (Describe)

Odometer (Start) 2mi RT Return

Probe Hours (Start) Finish

Equipment Broken/Needing Repair

All checks above must be OK and signed off before leaving in the morning

Signature

Expendable Items Used

Qty	Item	LEA Number
1	Bentonite Chips, Bag	089
	Bentonite Pellets, Buckets	
	Cap, End, Vinyl (AT-641K or AT-726K)	150
	Cap, Slip, 0.5" Vinyl (AT-441)	044
	Cap, Slip, 1" PVC (S447010)	146
	Cap, Threaded, 1" PVC	147
	Concrete, 60 lb. Bag	085
	Connectors, Snap Lock (GW-2030)	210
1	Decontamination Supplies	081
	Ear Plugs	
	Filter, In Line	024
	Liners, LB PETG (AT-825k)	128
	Liners, MC Acetate	173
	Liners, MC PETG	173
	Locks, Monitoring Well	155
1	Miscellaneous Health & Safety Items	060
	Point, Drive, Exp., SP15 (GW-15)	003
	Point, Exp. (spec. GW-2040 or GW-445)	002
1/2	Sand, Filter Pack, Bags	220
	Tubing, 1/2", NOS	007
1	Water, Distilled	025
	Well Point, 1" Sch.80 PVC	216
	Well Protector, Road Box (10581)	014
	Well Protector, Roadbox, 7"	014
	Well Protector, Stickup, 4" (10127)	014
	Well Riser, 0.5" PVC, 5' (GW2050)	228
	Well Riser, 1" Sch. 80 PVC, 5' (1058CATB	131
	Well Screen, 1" Sch. 80 PVC, 5' (105810	130
	Well Screen, Pre-Packed, 3' (GW-2010)	224
5	Dual Tube Liners	

Equipment Used

Qty	Item	LEA Number
	Exhaust Hose	033
1	Miscellaneous Small Tools & Equipment	152
	Probe Rod Jack	119
	Pump, Grout	200
	Thermo-Anemometer	248

Field Personnel J Corcoran, N Emmons

Signature

DAILY GEOPROBE REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. ~~00100~~. 615L902.003 — Page 5 of 7
Project ~~General Overhead~~ Vapor Intr. GW Invest. — Date 5/29/11
Location ~~LEA, Plainville, CT~~ OSL
Client OSL Site Group

Arrived at Site 810 — Departed from Site 1615 — Geoprobe 6610
Odometer (Start) ~~[illegible]~~ — Return
Probe Hours (Start) 78 — Finish

Vehicle Checklist/Condition

OK	Geoprobe	OK	Trailer (if used)
✓	Engine Fluids	✓	Brakes (Incl. battery)
✓	Transmission	✓	Hitch
✓	Brakes (Incl. parking)	✓	Safety Chains
✓	Lights	✓	Lights
✓	Signals	✓	Signals
✓	Tires	✓	Tires
✓	General	✓	General
	Other (describe)		Other (Describe)

Equipment Broken/Needing Repair

All checks above must be OK and signed off before leaving in the morning

Signature

Expendable Items Used

Qty	Item	LEA Number
	Bentonite Chips, Bag	089
	Bentonite Pellets, Buckets	
	Cap, End, Vinyl (AT-641K or AT-726K)	150
	Cap, Slip, 0.5" Vinyl (AT-441)	044
	Cap, Slip, 1" PVC (S447010)	146
	Cap, Threaded, 1" PVC	147
	Concrete, 60 lb. Bag	085
	Connectors, Snap Lock (GW-2030)	210
	Decontamination Supplies	081
4	Ear Plugs	
	Filter, In Line	024
	Liners, LB PETG (AT-825k)	128
	Liners, MC Acetate	173
4	Liners, ~~MC~~ PETG (Dual Tube)	173
	Locks, Monitoring Well	155
	Miscellaneous Health & Safety Items	060
	Point, Drive, Exp., SP15 (GW-15)	003
	Point, Exp. (spec. GW-2040 or GW-445)	002
	Sand, Filter Pack, Bags	220
	Tubing, 1/2", NOS	007
	Water, Distilled	025
	Well Point, 1" Sch.80 PVC	216
	Well Protector, Road Box (10581)	014
	Well Protector, Roadbox, 7"	014
	Well Protector, Stickup, 4" (10127)	014
	Well Riser, 0.5" PVC, 5' (GW2050)	228
	Well Riser, 1" Sch. 80 PVC, 5' (1058CATB	131
	Well Screen, 1" Sch. 80 PVC, 5' (105810	130
	Well Screen, Pre-Packed, 3' (GW-2010)	224
1	Auger Plug (Geoprobe)	

Equipment Used

Qty	Item	LEA Number
	Exhaust Hose	033
	Miscellaneous Small Tools & Equipment	152
	Probe Rod Jack	119
	Pump, Grout	200
	Thermo-Anemometer	248
1	Hollow Stem Augers / Tools	

Field Personnel K Volkert, N Emmons, J Marcantonio — ***Signature***

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-03

LEA Comm. No.	**61SL902.003**		Page 6 of 7
Project	Vapor Intrusion Groundwater Investigation		Date 5/20/11
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	Geoprobe 6610 DT	Drilling Contractor	LEA
Sampling Method		Drill Foreman	K. Volkert
Groundwater Depth	16' at	Drill Rig	Geoprobe 6610 DT

Elevation/ Depth	Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0'		28/48	NM	9:50	1.8	NM	0-2" Reddish Brown F SAND. organic material (topsoil) 2-16" Reddish Brown f SAND, Tr coarse sand. small angular stone. moist, loose
2'		28/48		9:50	1.6		16-28" Reddish Brown f to M SAND. Tr small angular stone
4'		25/		10:00	1.3		Red Brown f-m Sand Trace Small angular stone moist Loose
6'		/48		10:00	0.9		12.5 - 15" "AA" 15-25" Red Brown fine Sand, Pulverized Rock fragments moist Loose
8'	NO						
10'		23/		10:05	2.2		0-5" AS ABOVE 5-10" Reddish Brown f to M SAND, Tr rock, moist, loose 10-20" Reddish Brn f to VF SAND, Pulverized Rock fragments, loose, dry 20-23" Pulverized Rock with trace Reddish Brown f SAND
12'		/48		10:05	1.4		
14'		24/		10:25	1.7		0-4" As Above 4-24" Reddish Brown f-VF SAND, Pulverized rock loose, wet
16'		/48		10:25	1.4		"AA"
18'							BOB 16'
20'							

NO

Comments 10:05 - refusal on rock. Offset 2ft east. Offset successful.

Waste Container | Trip Blank ID(s) | Cooler ID

Field Personnel ~~Luke Chmielecki~~ Emmons | Mercantonio Volkert | Signature

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-02

LEA Comm. No.	**61SL902.003**		Page 3 of 3
Project	Vapor Intrusion Groundwater Investigation		Date 5/20/14
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	~~Direct~~ Dual tube	Drilling Contractor	LEA
Sampling Method	Dual tube	Drill Foreman	J. Corcoran
Groundwater Depth	at	Drill Rig	5400

Elevation/ Depth	Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0		28/		13:40	3.0		0-2 Brown fine Sand + Organics (Topsoil) 2-14 Red Brown f-m sand Trace Small angular stone Moist Loose
2		/48		13:43	0.4		"AA" (2-14)
4		32/		13:45	2.8		0-12 Brown f-m sand Little Small Angular Stone Moist Loose 12-16 Red Brown fine Sand + small Angular stone Dry. Loose.
6	NC	/48	NC	13:48	0.5	NC	Red Brown f-m sand, Small Angular stone, Pulverized Rock moist Loose
8		20/		14:40	0.4		"AA"
10		/48		14:43	1.0		"AA"
12		12/24		14:50	0.3		Red Brown fine Sand + Pulverized Rock fragments, Moist, Loose, wet Last 3"
14							Refusal at 14
				NC			

Comments 13:50 Geoprobe refusal @ 9ft on rock. Offsetting 2ft North.
14:15 Refusal at 10' offset again

12-14" interval was wet at the Beginning - then moist and wet at the End unsure of where water was. NC

Waste Container | Trip Blank ID(s) | Cooler ID

Field Personnel Luke Chmielecki

Signature

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. 61SL902.003
Project Vapor Intrusion Groundwater Investigation ~~Highland Hills Study~~
Location Old Southington Landfill, Southington, CT
Client OSL Site Group - OOSL

Page 1 of 5
Date 5/23/11

Arrived at Site 0700 Departed from Site 1530 Vehicle ST-5 5 m. RT 69-97 5 m. RT.
Odometer (Start) Return

Site Activities

	Soil Sampling	✓	Geoprobe Work
	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	
Sampling for	
Laboratories used	
Paperwork & Equipment left at/in	office/yard
Site Contact	JT
Contractors on Site	LEA
Time and place to meet contractors	

Non-productive Time

✓	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid	10 Gallons	
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 63° Precipitation on + off Wind slight
Comments

97 Probe - 1 day

Checked By JT

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Cap, PVC, 1", (Threaded or FJT)	147
	Cap, PVC,1', Slip (S447010)	146
	Concrete, 60 lb. Bag	085
1	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
	Drum, Open Top 55 Gallon	086
	Filter, Zap Cap	024
	Grout mix, bag	237
8	~~Locks, Monitoring Well~~ Dual Tube Liners	~~155~~
1	Miscellaneous Health & Safety Items	060
	Plug, Locking, 2"	233
2	Sand, Filter Pack, Bags	220
1	Water, Distilled	025
	Well Point, 1" Sch 80 (FJT or ?)	216
	Well Protector, Roadbox, 4"	135

Equipment Used

Qty	Item	LEA Number
	Balance, Ohaus	031
	Balance, Pocket Pro	061
	Drill, Core Saw, w/ Attachment	009
	Drill, Hilti, incl. Concrete Anchors	010
1	Hand Auger, w/ attachments	013
	Locator, Metrotech Pipe	053
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
	Water Level Indicator	028

Field Personnel Luke Chmielecki Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	61SL902.003	Page 2 of 5
Project	~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION	Date 5/23/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group - OOSL	

Description of Site Activities

0700 on site.
Loading equipment.
Discussed H+S and SOW.
Mobilized to radio station.
~~Unl~~ Unloaded 6610 and inspected.
Found broken lateral shock. Leaking hydraulic fluid.
Called Brisson, Trzaski, Gallagher.
Brought 6610 back to yard to show Gallagher.
Unloaded rack body and non-essential tooling.
Mobilized to Barbara Lane.
Completed boring to 32'. Water at 28.5'.
24' of tooling got stuck in bore hole 3' down.
Had to hand auger around borehole to access pull cap for extraction.
Successful.
Back to yard to unload. No geoprobe reports in paperwork. Captured supplies on page 1.
offsite.

Field Personnel Luke Chmielecki Keith Volkert Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**61SL902.003**	Page 3 of 5
Project	~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION	Date 5/23/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group - OOSL	

pH Meter/Serial #

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration							
Calibration Check							
Calibration Check							

Turbidity Meter/Serial #

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration					
Calibration Check					
Calibration Check					

PID Meter/Serial #

	Time	Isobutylene Standard	Meter Reading	Zero with
Initial Calibration	0830	100 ppm	100 ppm	Background
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel	Luke Chmielecki	Keith Volkert	***Signature***

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-08

LEA Comm. No.	**61SL902.003**		Page 4 of 5
Project	Vapor Intrusion Groundwater Investigation		Date 5/23/11
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	Dual Tube	Drilling Contractor	LEA
Sampling Method	Grab	Drill Foreman	KV
Groundwater Depth	28.5' at 1310	Drill Rig	97

Elevation/ Depth	Sample Information: Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0							
2		24/48		1235	0.0		Top 12" Red f-c SAND, loose, moist. Bot 12" Red c SAND, little m sand. loose, moist.
4							
6		30/48		1240	0.1		Red/Lt brown ~~Red~~ m-c SAND, loose, moist AA
8							
10	LE	32/48	LE	1245	0.2	LE	AA AA
12							
14		32/48		1250	0.1		AA AA
16							
18		30/48		1255	0.0		Red f-m SAND, trace vf sand. loose, moist. Red vf-m SAND, loose. moist
20							

Comments

Waste Container | Trip Blank ID(s) NA | Cooler ID NA

Field Personnel: Luke Chmielecki, Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-08

LEA Comm. No.	**61SL902.003**		Page 5 of 5
Project	Vapor Intrusion Groundwater Investigation		Date 5/23/11
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	Dual Tube	Drilling Contractor	LEA
Sampling Method	Grab	Drill Foreman	KV
Groundwater Depth	28.5' at 1310	Drill Rig	97

Elevation/ Depth	Sample Information: Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
20							
22		30/48		1300	0.0		AA
24							AA
26	LC	31/48	LC	1305	0.0	LC	Red/Ltbrn vf-m SAND, loose moist
28							AA
30		32/48		1310	0.0		Red vf SAND, little silt, slightly dense, wet at 28.5'
32							AA, bottom 4" Red m-c Sand, loose, wet
							BOB 32'
				LC			

Comments

Waste Container | Trip Blank ID(s) NA | Cooler ID NA

Field Personnel: Luke Chmielecki, Keith Volkert

Signature

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. 61SL902.003
Project Vapor Intrusion Groundwater Investigation ~~Highland Hills Study~~
Location Old Southington Landfill, Southington, CT
Client OSL Site Group - OOSL

Page 1 of 4
Date 5/25/11

Arrived at Site 800 Departed from Site 1610 Vehicle Personal
Odometer (Start) Return

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [x] well Installation
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used /
Last Location ID Used /
Current Location (if not complete) field
Sampling for /
Laboratories used
Paperwork & Equipment left at/in office
Site Contact
Contractors on Site LEA, Geosearch
Time and place to meet contractors /

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 80' Precipitation None Wind Slight
Comments

Checked By JT

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Cap, PVC, 1", (Threaded or FJT)	147
	Cap, PVC,1', Slip (S447010)	146
	Concrete, 60 lb. Bag	085
	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
	Drum, Open Top 55 Gallon	086
	Filter, Zap Cap	024
	Grout mix, bag	237
	Locks, Monitoring Well	155
1	Miscellaneous Health & Safety Items	060
2	Plug, Locking, 2"	233
	Sand, Filter Pack, Bags	220
	Water, Distilled	025
2	~~Well Point, 1" Sch 80 (FJT or ?)~~ well Sump 2"	216
	Well Protector, Roadbox, 4"	135

Equipment Used

Qty	Item	LEA Number
	Balance, Ohaus	031
	Balance, Pocket Pro	061
	Drill, Core Saw, w/ Attachment	009
	Drill, Hilti, incl. Concrete Anchors	010
	Hand Auger, w/ attachments	013
	Locator, Metrotech Pipe	053
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
1	Water Level Indicator	028

Field Personnel ~~Luke Chmielecki~~ Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	61SL902.003	Page 2 of 4
Project	~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION	Date 5/25/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group - OOSL	

Description of Site Activities

800 - on Site - LEA and Nobis
845 - Geosearch on site
920 - set upon CB-MW-08 on Beatrice Ln
930 - Start Drilling
~~1000~~ 1030 - finish Drilling and installing Monitor well Depth 35'
1100 - Nobis off site
- Start CB-MW-07 on ~~Tom~~ Nunzio Dr.
1200 - Break for lunch
1245 - continue Drilling
1430 ~~1330~~ finish installing well
- Begin to move drums to yard
1530 - finish moving drums from well installation
- K. Volkert talk to home owner at CB-MW-08 location
1545 - talk to town of Southington about well locations
1600 - set up on location at Radio Station will start first thing thursday.
1610 - off site

Field Personnel ~~Luke Chmielecki~~ Keith Volkert

Signature

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor Geosearch
Drilling Method HSA
Sampling Method Ø
Groundwater Observation
Depth 26' **at** 0 **Hours**

Start Date 5/25/11
End Date 5/25/11
Logged by Keith Volkert
Drilling Foreman Randy
Drill Rig CME 85
GPS Latitude
GPS Longitude

Well ID CB-MW-07

Protector
- Material
- Diameter
- Length
- Stickup
- Key #
- Cover Type

Ground

Top Seal
- Top
- Bottom
- Material

Backfill
- Top 2'
- Bottom 20'
- Material Portland Grout

Secondary Sand
- Top 21'
- Bottom 33'
- Size Zero Sand

Filter Pack
- Top 23
- Bottom 33
- Material Prepack 00 Sand

Reported depth to bottom of boring 33'

Comments

Drum OSL-OT-041-2011
OSL-OT-042-2011

Concrete Diameter
Concrete Thickness

Reference
- Stickup
- Description

Casing
- Diameter 2"
- Material Sch40 PVC
- Length 23'
- Stickup Ø

Seal
- Top 20'
- Bottom 21'
- Material Bentonite Chips

Screen
- Top 23'
- Bottom 33'
- Material Sch40 PVC pre pack
- Diameter 2"
- Length 10'
- Slot Size 10

Miscellaneous Materials (Quantity Used/Item)
- Cement
- Bentonite Chips ½ bag
- Bentonite Pellets
- Bentonite Powder
- Grout Weight ≈ 18 gallons
- Filter Pack Sand 4 bags
- Capping Sand
- Well Point 1
- Well Plug 1

Signature

Loureiro Engineering Associates, Inc.

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor Geosearch
Drilling Method HSA
Sampling Method —
Groundwater Observation
Depth 28' **at** 0 **Hours**

Start Date 5/25/11
End Date 5/25/11
Well ID CB-MW-08
Logged by Keith Volkert
Drilling Foreman Randy
Drill Rig CME 85
GPS Latitude
GPS Longitude

Protector
- Material
- Diameter
- Length — Ground
- Stickup
- Key #
- Cover Type

Top Seal
- Top
- Bottom
- Material

Backfill
- Top 2'
- Bottom 22'
- Material Portland Grout

Secondary Sand
- Top 23'
- Bottom 35'
- Size Zero Sand

Filter Pack
- Top 25'
- Bottom 35'
- Material Sch 40 prepack

Reported depth to bottom of boring 35

Comments
Drum OSL-OT-039-2011
OSL-OT-040-2011

Concrete Diameter
Concrete Thickness

Reference
- Stickup
- Description

Casing
- Diameter 2"
- Material Sch 40 PVC
- Length 25'
- Stickup —

Seal
- Top 22'
- Bottom 23'
- Material Bentonite Chips

Screen
- Top 25'
- Bottom 35'
- Material Sch 40 prepack
- Diameter 2"
- Length 10'
- Slot Size 10

Miscellaneous Materials (Quantity Used/Item)
- Cement
- Bentonite Chips ¼ bag
- Bentonite Pellets
- Bentonite Powder
- Grout Weight 20 gallons
- Filter Pack Sand 5 bags
- Capping Sand
- Well Point 1
- Well Plug 1

Signature

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. ~~0000100.001~~ 6150902.003 Page ___ of ___

Project Date 5/26/11

Location LEA, Plainville, CT

Client

Arrived at Site 750 Departed from Site 1600 Vehicle Personal

Odometer (Start) Return

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [x] Drilling oversite
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ]
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used

Last Location ID Used

Current Location (if not complete) Road

Sampling for

Laboratories used

Paperwork & Equipment left at/in Office

Site Contact

Contractors on Site LSA Geosearch

Time and place to meet contractors

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
	✓		Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 87 Precipitation None Wind Slight

Comments

Checked By

Expendable Items Used

Qty	Item	LEA Number
	Decontamination Supplies	081
1	Miscellaneous Health & Safety Items	060
	Water, Distilled	025
2	2" ~~[illegible]~~ 5' pre packs	
1	well sump	
1	Expansion plug	

Equipment Used

Qty	Item	LEA Number
1	Miscellaneous Small Tools & Equipment	152
	Thermo-Anemometer	248
1	PID	

Field Personnel Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Job No.	~~00100~~ 61SL902.003	Page ____ of ____
Project	General Overhead	Date 5/26/11
Location	LEA, Plainville, CT	
Client		

Description of Site Activities

7:30 - Geosearch on site
8:00 - setup on CB-MW-02
- Start Drilling
8:30 - Water is at 10' set well screen 17'-7'
9:30 - finish installing CB-MW-02 - Move to CB-MW-03
- Up out Geoprobe Augers 25' of Auger
- off set 3' North
10:25 - Hit water at 11' set well 18'-8'
11:30 - Talk to James at Chuck and Eddie about moving matrix blocks out of well locations
12:00 - Move to CB-MW-04 location
13:30 - finish CB-MW-04 well set 14'-4'
- move to next location
14:45 - finish CB-MW-05 well set 14'-4'
- Move to next location
16:00 - finish CB-MW-06 well set 14'-4'
- off site

Field Personnel Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-02

LEA Comm. No.	**61SL902.003**		Page ____ of ____
Project	Vapor Intrusion Groundwater Investigation		Date 5/26/11
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	HSA	Drilling Contractor	Geosearch
Sampling Method	Split Spoon	Drill Foreman	Rodney Dean
Groundwater Depth	____ at ____	Drill Rig	CME 85

Elevation/ Depth	Sample Information: Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0							
5	NT	18/24	1, 6 6, 8	815	0.0		Red f-M SAND S. Gravel / loose DRY
7	↓	16/24	5 12, 20 22	810	0.1		AA
9	NT	12/24	53, 24 26, 20	832	0.0		AA wet @ 10'
11							Set well from 17'-7'

Comments

Waste Container ____ Trip Blank ID(s) ____ Cooler ID ____

Field Personnel ~~Luke Chmielecki~~ Keith Vollert

Signature

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-03

LEA Comm. No.	**61SL902.003**		Page ____ of ____
Project	Vapor Intrusion Groundwater Investigation		Date 5/26/11
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	HSA	Drilling Contractor	Geosearch
Sampling Method	Split Spoon	Drill Foreman	Rodney Dean
Groundwater Depth	____ at ____	Drill Rig	CME 85

Elevation/ Depth	Sample Information: Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0							
5	NT	16/24	2,34 19,29	1006	0.0	/	Red Br f-v f SAND and S Caravel house DRY
7	NT	4/24	11,11 8,12	1008	0.1	/	AA
9	NT	6/24	45,28 19,29	1020	0.6	/	AA wet @ 11'
11							Set well 18'-8'

Comments

Waste Container | Trip Blank ID(s) | Cooler ID

Field Personnel: ~~Luke Chmielecki~~ Keith Vollert

Signature

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-04

LEA Comm. No.	**61SL902.003**		Page ____ of ____
Project	Vapor Intrusion Groundwater Investigation		Date 5/20/11
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	HSA	Drilling Contractor	Geosearch
Sampling Method	Split spoon	Drill Foreman	Rodney Dean
Groundwater Depth	____ at ____	Drill Rig	CME 85

Elevation/ Depth	Sample Information: Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0	NT	12/24	6,12 16,28	1205	0.0	/	Red Br f-v f SAND tr silt ~~some~~ lithics Gravel Moist
2	NT	18/24	21,20 24,25	1208	0.1	/	AA
4							
5	NT	8/24	7,13 9,10	1230	0.0	—	AA wet @ 7'
7							Set well from 14'-4'

Comments

Waste Container ____ Trip Blank ID(s) — Cooler ID —

Field Personnel ~~Luke Chmielecki~~ Keith Volker

Signature

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-05

LEA Comm. No.	**61SL902.003**		Page ____ of ____
Project	Vapor Intrusion Groundwater Investigation		Date 5/26/11
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	HSA	Drilling Contractor	Geosearch
Sampling Method	Split Spoon	Drill Foreman	Rodny Dean
Groundwater Depth	____ at ____	Drill Rig	CME 85

Elevation/ Depth	Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0	NT	18/24	12,9 21,24	1358	0.0		Red Br f-vf SAND some S Gravel loose
2	NT	14/24	10,11 12,20	1405	0.0		AA
4							
5	NT	21/24	20,12 13,15	1410	0.0		AA wet @ 7
7	NT						Set well out 14'-4'
9							

Comments

Waste Container ____ Trip Blank ID(s) ____ Cooler ID ____

Field Personnel ~~Luke Chmielecki~~ Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-06

LEA Comm. No.	~~88UT134.00T~~ 61SL902.003		Page ____ of ____
Project	~~UTC P&W EH Experimental Test PhII/III ESA~~ OSL		Date 5/26/11
Location	~~P&W East Hartford~~	GPS Latitude	
Client	~~Pratt & Whitney East Hartford JT~~ OSL	GPS Longitude	
Drilling Method	~~HAS~~ HSA	Drilling Contractor	Geosearch
Sampling Method	Split Spoon	Drill Foreman	Rodney Dean
Groundwater Depth	at	Drill Rig	CME 85

Elevation/ Depth	Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0	NT	17/24	11,8 9,10	1500	0.1		Red Br F-vf SAND some S. Coarsal loose Moist
2		21/24	13,12 16,8	1505	0.0		AA
4							
5							
7	NT	20/24	21,22 12,10	1510	0.0		AA wet @ 7' set well 14'-4'

Comments

Waste Container | Trip Blank ID(s) | Cooler ID

Field Personnel: ~~Adam Brown~~, Keith Volkert, ~~Jeremy Corcoran~~, Jeremy Marcantonio

Signature

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor Geosearch
Drilling Method HSA
Sampling Method Split Spoon
Groundwater Observation
Depth ____ at ____ **Hours**

Start Date 5/26/11
End Date 5/26/11
Well ID CB-MW-02
Logged by Keith Volker + Rodney Allen
Drilling Foreman
Drill Rig CME 85
GPS Latitude
GPS Longitude

Protector
- Material: Steel
- Diameter: ~~6"~~
- Length: ~~6'~~
- Stickup: ~~2.5~~
- Key #
- Cover Type

Ground

Top Seal
- Top
- Bottom
- Material

Backfill
- Top: 1.5'
- Bottom: 4'
- Material: Portland Cement

Secondary Sand
- Top: 5'
- Bottom: 17'
- Size: Zero Sand

Filter Pack
- Top: 7'
- Bottom: 17'
- Material: Prepack sand

Reported depth to bottom of boring: 17'

Comments

Concrete Diameter
Concrete Thickness

Reference
- Stickup
- Description

Casing
- Diameter: 2"
- Material: Sch 40 PVC
- Length: 7'
- Stickup: ~~0~~

Seal
- Top: 4'
- Bottom: 5'
- Material: Bentonite Chips

Screen
- Top: 7'
- Bottom: 17'
- Material: Sch40 Prepack
- Diameter: 2"
- Length: 10'
- Slot Size: 10

Miscellaneous Materials (Quantity Used/Item)
- Cement
- Bentonite Chips
- Bentonite Pellets
- Bentonite Powder
- Grout Weight
- Filter Pack Sand
- Capping Sand
- Well Point
- Well Plug

Signature

Loureiro Engineering Associates, Inc.

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor Geosearch
Drilling Method HSA
Sampling Method Split spoon
Groundwater Observation
Depth ..... **at** ..... **Hours**

Start Date 5/26/11
End Date 5/26/11
Well ID CB-MW-03
Logged by K. Volker + Rodney Dear
Drilling Foreman
Drill Rig CME 85
GPS Latitude
GPS Longitude

Protector
- Material
- Diameter
- Length ..... Ground
- Stickup
- Key #
- Cover Type

Top Seal
- Top
- Bottom
- Material

Backfill
- Top 2'
- Bottom 5'
- Material Portland Grout

Secondary Sand
- Top 6'
- Bottom 18'
- Size Zero Sand

Filter Pack
- Top 8'
- Bottom 18'
- Material prepack

Reported depth to bottom of boring 18'

Comments

Concrete Diameter
Concrete Thickness

Reference
- Stickup
- Description

Casing
- Diameter 2"
- Material Sch 40 PVC
- Length 8'
- Stickup ø

Seal
- Top 5'
- Bottom 6'
- Material Bentonite chips

Screen
- Top 8'
- Bottom 18'
- Material Sch 40 prepack
- Diameter 2"
- Length 10'
- Slot Size 10

Miscellaneous Materials (Quantity Used/Item)
- Cement
- Bentonite Chips
- Bentonite Pellets
- Bentonite Powder
- Grout Weight
- Filter Pack Sand
- Capping Sand
- Well Point
- Well Plug

Signature

Loureiro Engineering Associates, Inc.

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill

Start Date 5/26/11
End Date 5/26/11
Well ID CB-MW-04

Drilling Contractor Geosearch
Drilling Method HSA
Sampling Method Split spoon
Groundwater Observation
Depth ____ **at** ____ **Hours**

Logged by K. Volkert
Drilling Foreman Rodney Dew
Drill Rig CME 55
GPS Latitude
GPS Longitude

Protector
- Material
- Diameter
- Length
- Stickup
- Key #
- Cover Type

Ground

Top Seal
- Top
- Bottom
- Material

Backfill
- Top 1'
- Bottom 2'
- Material Portland Grout

Secondary Sand
- Top 3'
- Bottom 4'
- Size Zero Sand

Filter Pack
- Top 4'
- Bottom 14'
- Material Prepack

Reported depth to bottom of boring 14'

Comments

Concrete Diameter
Concrete Thickness

Reference
- Stickup
- Description

Casing
- Diameter 2"
- Material Sch 40 PVC
- Length 37'
- Stickup 3'

Seal
- Top 2'
- Bottom 3'
- Material Bentonite Chips

Screen
- Top 4'
- Bottom 14'
- Material Sch 40 prepack
- Diameter 2"
- Length 10'
- Slot Size 10

Miscellaneous Materials (Quantity Used/Item)
- Cement
- Bentonite Chips
- Bentonite Pellets
- Bentonite Powder
- Grout Weight
- Filter Pack Sand
- Capping Sand
- Well Point
- Well Plug

Signature

Loureiro Engineering Associates, Inc.

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor Geosearch
Drilling Method HSA
Sampling Method Split Spoon
Groundwater Observation
Depth ____ at ____ Hours

Start Date 5/26/11
End Date 5/26/11
Well ID CB-MW-05
Logged by K. Volkert
Drilling Foreman Rodney Pen
Drill Rig CME 85
GPS Latitude
GPS Longitude

Protector
- Material: Steel
- Diameter: 6"
- Length: 6'
- Stickup: 3'
- Key #: /
- Cover Type:

Ground

Top Seal
- Top:
- Bottom:
- Material: /

Backfill
- Top: 1'
- Bottom: 2'
- Material: Portland Grout

Secondary Sand
- Top: 3'
- Bottom: 14'
- Size: Zero Sand

Filter Pack
- Top: 4'
- Bottom: 14'
- Material: ~~Sch~~ prepack

Reported depth to bottom of boring: 14'

Comments

Concrete Diameter: 18"x18"
Concrete Thickness: 18"

Reference
- Stickup:
- Description: /

Casing
- Diameter: 2"
- Material: sch 40 pvc
- Length: 6.5'
- Stickup: ~~3'~~ 2.5'

Seal
- Top: 2'
- Bottom: 3'
- Material: Bentonite

Screen
- Top: 4'
- Bottom: 14'
- Material: Sch 40 prepack
- Diameter: 2"
- Length: 10'
- Slot Size: 10

Miscellaneous Materials (Quantity Used/Item)
- Cement
- Bentonite Chips
- Bentonite Pellets
- Bentonite Powder
- Grout Weight
- Filter Pack Sand
- Capping Sand
- Well Point
- Well Plug

Signature

Loureiro Engineering Associates, Inc.

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor Geosearch
Drilling Method HSA
Sampling Method Split Spoon
Groundwater Observation
Depth _____ **at** _____ **Hours**

Start Date 5/26/11
End Date 5/26/11
Well ID CB-MW-06
Logged by K. Volkar + Rodney Dean
Drilling Foreman
Drill Rig CME 85
GPS Latitude
GPS Longitude

Protector
- Material: Steel
- Diameter: 6"
- Length: 6'
- Stickup: 2.5'
- Key #
- Cover Type

Ground

Top Seal
- Top
- Bottom
- Material

Backfill
- Top: 18"
- Bottom: 2'
- Material: Portland Grout

Secondary Sand
- Top: 3'
- Bottom: 14'
- Size: Zero Sand

Filter Pack
- Top: 4'
- Bottom: 14'
- Material: Prepack

Reported depth to bottom of boring: 14'

Comments

Concrete Diameter
Concrete Thickness

Reference
- Stickup
- Description

Casing
- Diameter: 2"
- Material: Sch 40 PVC
- Length: 6.5'
- Stickup: 2.5'

Seal
- Top: 2'
- Bottom: 3'
- Material: Bentonite chips

Screen
- Top: 4'
- Bottom: 14'
- Material: Sch 40 PVC prepack
- Diameter: 2"
- Length: 10'
- Slot Size: 10

Miscellaneous Materials (Quantity Used/Item)
- Cement
- Bentonite Chips
- Bentonite Pellets
- Bentonite Powder
- Grout Weight
- Filter Pack Sand
- Capping Sand
- Well Point
- Well Plug

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. ~~07MD012.006~~ 61SC902.003 — Page ___ of ___

Project: ~~Off-Site Investigation/System Install~~ OSL

Location: ~~Black & Decker - Woodside NY, Woodside, NY~~

Client: ~~Black & Decker HHI~~

Date: 5/27/11

Arrived at Site: 800 — Departed from Site: 1300 — Vehicle: personal

Odometer (Start) ___ Return ___

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [x] Drilling Oversite
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	/
Last Location ID Used	/
Current Location (if not complete)	Reed
Sampling for	/
Laboratories used	/
Paperwork & Equipment left at/in	Office
Site Contact	
Contractors on Site	Geosearch
Time and place to meet contractors	/

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
	✓		Instruments calibrated

Checked By ___

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature: 89 — Precipitation: None — Wind: Slight

Comments:

Expendable Items Used

Qty	Item	LEA Number
1	Health and Safety	

Equipment Used

Qty	Item	LEA Number
1	Small Tools	

Field Personnel: ~~Kyle Zalaski~~ Keith Volkert

Signature: [signature]

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Job No.	**00100 .**	Page ____ of ____
Project	General Overhead	Date 5/27/11
Location	LEA, Plainville, CT	
Client		

Description of Site Activities

800 - on site
- Geosearch on site
830 - Start well pads on Beerbower
1230 - Finish well pads at Radio station
1300 - off site

Field Personnel Keith Volkert

Signature

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. ~~0000100.001~~ 61SL902.003
Project VAPOR Intrusion GW Invest.
Location OSL ~~LEA, Plainville, CT~~
Client

Page 1 of 3
Date 5/27/11

Arrived at Site 800 Departed from Site 1230 Vehicle Ranger
~~Odometer (Start)~~ ~~Return~~ 2 mi RT

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [X] Gas probe leak testing
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Non-productive Time

- [ ] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	
Sampling for	
Laboratories used	
Paperwork & Equipment left at/in	Yard
Site Contact	Joe T
Contractors on Site	LEA, NOBIS
Time and place to meet contractors	7, yard

Quality Assurance Checks

Yes	N/A	No	
			Sample labels complete
			Sample/cooler seals OK
			All samples obtained
			Chains of custody
			All forms/logs complete
			Site condition OK
			Site H&S Plan on site
			Instruments calibrated

Checked By

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 80s-90s Precipitation none Wind minimal
Comments

Sunny, hot, humid

Expendable Items Used

Qty	Item	LEA Number
1	Decontamination Supplies	081
1	Miscellaneous Health & Safety Items	060
	Water, Distilled	025
~~1~~	~~1/4"~~	
10'	1/8" tubing	
1	tedlar bag	

Equipment Used

Qty	Item	LEA Number
1	Miscellaneous Small Tools & Equipment	152
	Thermo-Anemometer	248
1	helium detector (rental)	
1	SKC Air pump (rental)	
1	SKC pump calibrator, DC Lite (rental)	
1	Leak Test Bucket Setup	

Field Personnel Sam Rooney, Kyle Zalaski

Signature [signature]

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Job No. ~~00100~~ CISL902.003
Project ~~General Overhead~~ VAPOR INTRUSION GW INVEST.
Location OSL ~~LEA, Plainville, CT~~
Client

Page 2 of 3
Date 5/24/11

Description of Site Activities

900 LEA onsite, NOBAS Onsite
910 Set up on Probe near AST
925 Set up on Probe near used Battery waste

1000 Resealed Probe near AST
Began second leak test
failed test 6 min. into testing.
1055 Set up on Probe RSSBol

1100 Helium detector detects helium up to 150 ppm in background

1125 Contact US Environmental regarding helium readings; told to change moisture filter and test detector with and without filter.

1210 Detector still detecting helium; unable to continue leak testing

1230 LEA offsite

Field Personnel Sam Rooney, Kyle Zaleski

Signature Kyle Zaleski

Old Southington Landfill
Vapor Intrusion GW Investigation
61SL902
5/26/2011 & 5/27/11

Vapor Probe Integrity Testing

Probe	Probe Diameter (in)	Annulus Diameter (in)	Screened Interval (ft)	Depth (ft)	Depth of Seal (ft)	GW Depth (ft)	Air Volume (ft3)	Air Volume (L)	Air Exchange Time (min)	Time Started Purging	Time Ended Purging	Pass OR Fail	Helium Detection
Landfill													
GP-1	0.75	8	5 - 10	10	3	1.35		Water in Probe					
GP-2R	1	8	5 - 10	10	4	6.14			54	1120	1214	Pass	—
GP-3R	1	8	5 - 10	10	4	6.23			55	1040	1043	fail	4975
GP-4	0.75	8	4.5 - 9.5	9.5	3	6.52			81	9:00	1020	Pass	—
GP-5	0.75	8	3.5 - 8.5	8.5	3	3.78		Water in Probe					
GP-6	0.75	8	5.5 - 10.5	10.5	3	5.50		Water in Probe					
GP-7	0.75	8	5.5 - 36.5	36.5	3	DRY 32.05			654				
GP-8													
GP-9	0.75	8	5.5 - 30.5	30.5	3	26.15			521				
GP-10	0.75	8	3.5 - 17.5	17.5	3	13.3			233	1230	1201	fail	75
Chuck & Eddies													
GP-1 oil tank	1	3	1.5 - 2.5	2.5	1	NA	0.03	0.94	7.07	915	919	fail	75
GP-2 used battery waste	1	3	1.5 - 2.5	2.5	1	NA	0.03	0.94	7.07	935	942	Pass	
Radio Station													
GP-1 RSSB01	1	3	1.5 - 2.5	2.5	1	NA	0.03	0.94	7.07	1055	1057	fail	75
GP-2	1	3	1.5 - 2.5	2.5	1	NA	0.03	0.94	7.07				

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	~~07MD012.006~~ 6152902.003		Page ___ of ___
Project	Off-Site Investigation/System Install	GSL	Date 5/31/11
Location	Black & Decker - Woodside NY, Woodside, NY		
Client	Black & Decker HHI		ST-12 ST-5

Arrived at Site 800 Departed from Site 1600 Vehicle ~~Personal~~

Odometer (Start) Return

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling well Installations
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	field
Sampling for	
Laboratories used	
Paperwork & Equipment left at/in	office
Site Contact	
Contractors on Site	~~GSL~~ LSA
Time and place to meet contractors	

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	~~No~~	
		✓	Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
	✓		Instruments calibrated

Checked By

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid	5 gallons	
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 89 Precipitation None Wind None

Comments

Expendable Items Used

Qty	Item	LEA Number
1	Heat shrink SARAY	
2	Zero Sand	
2	5' 2" prepack Screen	
1	5' PVC Riser 40SCH	
1	well sump 2"	
1/2	bag Bentonite	
2	bag portland cement	
1	stick up	

Equipment Used

Qty	Item	LEA Number
1	M/C Small Tools	
1	chain saw	
1	sump pump	
25'	Extention cord	
1	Generator	
1	Power washer	

Field Personnel ~~Kyle Zalaski~~ K. Vickers S. Reeves A. Clarke

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Job No.	~~00100~~ . 61SC902.003	Page ____ of ____
Project	General Overhead	Date 5/31/11
Location	LEA, Plainville, CT	
Client		

Description of Site Activities

800 - on site
- Clear path for Geoprobe to CB-MW-01 (with dull chainsaw and Machetes)
1030 - Start Drilling
1200 - Finish Drilling begin to install well
1400 - well screen ~~Keep~~ kept getting stuck in Augers - finally able to free well screen and continue building well
1500 - finish installing well clean up site and Decon tooling
1600 - off site

Field Personnel K. Volkert S. Roomally J. Clarke

Signature

Loureiro Engineering Associates, Inc.

FIELD BORING LOG

BORING ID: CB-MW-01

LEA Comm. No.	**61SL902.003**		Page ___ of ___
Project	Vapor Intrusion Groundwater Investigation		Date 5/31/11
Location	Old Southington Landfill	GPS Latitude	
Client	OSL Site Group - OOSL	GPS Longitude	
Drilling Method	HSA	Drilling Contractor	LEA
Sampling Method	Macro	Drill Foreman	Alex Clarke
Groundwater Depth	at	Drill Rig	Geoprobe

Elevation/ Depth	Sample Number(s)	Recovery (% or n/n)	Blows/6" / Downforce	Time	PID/FID (ppm)	Mass	Description of Recovered Material (Color, primary grain size and amount, other grain size(s) and amounts, density, moisture, coherence, structure, sorting, other characteristics)
0	NT	30/		1000	0.0		Med Brn f-vf SAND tr Silt and 5 Gravel loose moist
2		/48		1005	0.0		AA
4		24/		1010	0.1		AA wet @ 5'
6	NT	/48		1015	0.1		AA
8							Set well 13'→3'

Comments

Waste Container | Trip Blank ID(s) | Cooler ID

Field Personnel: ~~Luke Chmielecki~~ Alex Clarke, Keith Volkert, Sam Rooney

Signature

WELL COMPLETION REPORT

Project: ~~Highland Hills Study~~ VAPOR INTRUSION GROUNDWATER INVESTIGATION
LEA Comm. No. 61SL902.003
Client OSL Site Group - OOSL
Location Old Southington Landfill
Drilling Contractor LEA
Drilling Method HSA
Sampling Method Macro
Groundwater Observation
Depth ____ **at** ____ **Hours**

Start Date 5/31/11
End Date 5/31/11
Well ID CB-MW-01
Logged by K. Lockart / A. Clarke
Drilling Foreman
Drill Rig 66 10DT
GPS Latitude
GPS Longitude

Protector
- Material: Steel
- Diameter: 6"
- Length: 5'
- Stickup: 2.5'
- Key #
- Cover Type

Ground

Top Seal
- Top: Surface
- Bottom: 1'
- Material: Portland Grout

Backfill
- Top
- Bottom
- Material

Secondary Sand
- Top: 2'
- Bottom: 13'
- Size: Zero Sand

Filter Pack
- Top: 3'
- Bottom: 13'
- Material: Prepack

Reported depth to bottom of boring: 13'

Comments

Concrete Diameter
Concrete Thickness

Reference
- Stickup
- Description

Casing
- Diameter: 2"
- Material: Sch 40 PVC
- Length: 5.5'
- Stickup: 2.5'

Seal
- Top: 1'
- Bottom: 2'
- Material: Bentonite Chips

Screen
- Top: 3'
- Bottom: 13'
- Material: Sch 40 prepack
- Diameter: 2"
- Length: 10'
- Slot Size: 10

Miscellaneous Materials (Quantity Used/Item)
- Cement
- Bentonite Chips: 1/2 bags
- Bentonite Pellets
- Bentonite Powder
- Grout Weight: 10 gallons
- Filter Pack Sand: 2 bags
- Capping Sand
- Well Point: 1
- Well Plug: 1

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	61SL902.003	Page ____ of ____
Project VAPOR	~~Highland Hills Study~~ INTRUSION GW Invest.	Date 6/2/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group - OOSL	

Arrived at Site 8:00 Departed from Site 16:30 Vehicle Personal

Odometer (Start) Return

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ]
- [x] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ]
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	Field
Sampling for	
Laboratories used	
Paperwork & Equipment left at/in	office
Site Contact	
Contractors on Site	LEA
Time and place to meet contractors	

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Checked By JT

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	85 gallons	OSL-CT-020 + 23
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 72 Precipitation None Wind Strong

Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
1	Decontamination Supplies	081
2	Drum, Closed Top 55 Gallon	086
	Filter, Zap Cap	024
1	Miscellaneous Health & Safety Items	060
1	Water, Distilled	025
~~20~~		
40'	1/4" Tubing	
40'	3/8" Tubing	

Equipment Used

Qty	Item	LEA Number
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
1	Pump, Peristaltic (spec. Master or Isco)	040
1	Pump, Submersible Doblewhale	201
	Pump, Watera	038
	Thermo-Anemometer	248
1	Turbidimeter	023
	VOC Analyzer, Photovac 2020 (PID)	012
1	Water Level Indicator	028
40'	1" riser Surge rods	
1	Battery	

Field Personnel ~~Joe Trzaski~~ Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page ____ of ____
Project	Vapor Intrusion ~~Highland Hills Study~~ GW Invest.	Date 6/2/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group - OOSL	

Description of Site Activities

800 - on site
- set up on CB-MW-08 located at 67 Barbara Ln
900 - Call Joe Trzaski because K. Volkert feels that using 1/4" tubing and Peristaltic pump is not stressing 2" well - K. Volkert suggestes a whale pump J. Trzaski agree.
- switch to whale pump (Double whale) instead of parastaltic pump.
1200 - pumped 40 well volumes out of CB-MW-08 final turbidity was 1.90 NTU
- set up on CB-MW-07 on Nunzio drive
1400 - finish developing CB-MW-07
- Dump waste
- Go find SDW-9ABC
1500 - water levels for SDW-9 A - 5.9' DTB 58.79
B - 6' DTB 57'
C - 4.55 DTB 13.48
- set up parastaltic pump and take turbidity reading after one or two well volumes pumped to see if wells need to be developed
1600 - SDW-9 Cluster did not need to be developed DTB where good when compaired with historic DTB Turbidity was under 20 NTU in each well at the start of pumping and after a few well volumes dropped below 10 NTUs.
- found no need to redevelope well. Wells seemed to be in sampling condition.
1630 - off site

Field Personnel ~~Joe Trzaski~~ Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No. 61SL902.003
Project ~~Highland Hills Study~~ Vapor Intrusion GW Investigation
Location Old Southington Landfill, Southington, CT
Client OSL Site Group - OOSL

Page ____ of ____
Date 6/2/11

pH Meter/Serial # 10E100238

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	815	4	7	10	1000	100	100
Calibration Check							
Calibration Check							

Turbidity Meter/Serial # 3520

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	810	0	20	100	800
Calibration Check					
Calibration Check					

~~PID Meter/Serial #~~

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

~~Balance/Serial #~~

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel ~~Joe Trzaski~~
Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	**61SL902.003**	Page ___ of ___
Project	Highland Hills Study	Date 6/2/11
Location	Old Southington Landfill, Southington, CT	Time ___:___
Client	OSL Site Group - OOSL	

Monitoring Well Number CB-MW-08 Sample Number(s) ——

Initial Field Data and Measurements

Depth of Well 35.- Reference Used TOR
Depth to Water 28.75 PID/FID Reading
Height of Column 6.25 Interface Yes / (No) If yes, Depth NA Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments 1 gallon = 1 well volume

General Condition	OK	Bad
Casing Secure	—	
Collar Intact	—	
Cover Locked	—	
Other (describe)		

Development Information

Purge Volume Factors
0.5" - 0.01
1" - 0.041
1.5" - 0.091
(2" - 0.16)
4" - 0.65
6" - 1.5

Volumes \ Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial	0	17.3	8.07	383.3	—	
1	1	13.3	6.88	363.1	—	
2	2	12.5	7.04	357.4	—	
3	3	13.0	7.04	357.4	—	
6	6	12.89	6.94	350.1	500	
10	10	13.02	7.01	347.1	150	
20	20	13.00	7.00	340.2	57.3	
30	30	12.51	6.89	345.2	23.7	
40	40	13.02	7.02	342.1	1.90	

Initial Sample Observations
- Clear ☐
- Colored ☐
- Cloudy ☐
- Turbid ☒
- Odor ☐
- Sheen ☐

Developement Method (Peristaltic Pump) / Bailer / Inertial Pump / (Other) Whale
Field Decontamination? Yes / (No) If Yes, with what?
Waste Container ID OSL-CT-020

Additional Comments

Switch to ~~w~~ Double whale pump after 2 well volumes
Water Stable at 29'

Field Personnel ~~Joe Tizaski~~ Keith Volkert

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	**61SL902.003**	Page ___ of ___
Project	Highland Hills Study	Date 6/2/11
Location	Old Southington Landfill, Southington, CT	Time ___:___
Client	OSL Site Group - OOSL	

Monitoring Well Number CB-MW-07 Sample Number(s) _____

Initial Field Data and Measurements

Depth of Well 33 Reference Used TOR
Depth to Water 25.55 PID/FID Reading _____
Height of Column 7.45 Interface Yes / (No) If yes, Depth NA Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments 1.19 gallons = 1 well volume

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked		
Other (describe)		

Development Information

Purge Volume Factors
- *0.5" - 0.01*
- *1" - 0.041*
- *1.5" - 0.091*
- *2" - 0.16*
- *4" - 0.65*
- *6" - 1.5*

Initial Sample Observations
- Clear
- Colored
- Cloudy
- Turbid ✓
- Odor
- Sheen

Volumes / Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial	0	14.6	6.19	4100.5	—	
1	1.5	13.5	7.78	394.5	—	
	5	13.4	7.65	404.1	83.1	
	8	13.4	7.58	407.3	64.2	
	14	13.4	7.54	409.6	58.7	
	18	13.4	7.56	409.3	42.1	Surge
	22	13.5	7.55	409.7	150	
	26	13.4	7.57	409.6	30.2	
	30	13.4	7.58	409.2	12.1	
27.	32	13.4	7.55	409.0	6.45	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Double whale
Field Decontamination? (Yes) / No If Yes, with what? DI Rinse
Waste Container ID OSL-CT-023

Additional Comments

Surge well again after 18 gallons pumped

Field Personnel ~~Joe Trzaski~~ Keith Volkert Signature

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**61SL902.003**		Page 1 of 9
Project	~~Highland Hills Study~~ Vapor Intrusion GW Invest.		Date 6/3/11
Location	Old Southington Landfill, Southington, CT		
Client	OSL Site Group - OOSL		

Arrived at Site 750 Departed from Site 1700 Vehicle ST-17 / personal
Odometer (Start) Return

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ]
- [x] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ]
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	—
Last Location ID Used	—
Current Location (if not complete)	field
Sampling for	
Laboratories used	—
Paperwork & Equipment left at/in	office
Site Contact	
Contractors on Site	LEA

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Time and place to meet contractors

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Checked By SY

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	40 gallons	OSL-CT-023
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 72 Precipitation None Wind Slight

Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
1	Decontamination Supplies	081
	Drum, Closed Top 55 Gallon	086
	Filter, Zap Cap	024
1	Miscellaneous Health & Safety Items	060
	Water, Distilled	025
60'	3/8 tubing	
10'	1/4 Tubing	

Equipment Used

Qty	Item	LEA Number
2	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
	Pump, Peristaltic (spec. Master or Isco)	040
2	Pump, Submersible	201
	Pump, Watera	038
	Thermo-Anemometer	248
2	Turbidimeter	023
	VOC Analyzer, Photovac 2020 (PID)	012
2	Water Level Indicator	028
8	Carboys	

Field Personnel ~~Joe Trzaski~~ Keith Volkert Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	61SL902.003	Page 2 of 4
Project	~~Highland Hills Study~~ Vapor Intrusion GW Inv.	Date 6/8/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group - OOSL	

Description of Site Activities

7:50 - on site
- set up on CB-MW-04 and CB-MW-05 at Chuck and Eddres

8:30 - CB-MW-05 ran dry after one well volume purge recharge seem to be very fast will check in 5 mins.

11:00 - CB-MW-05 takes about 15 min to fully recharge
CB-MW-04 takes about 30 min to recharge
- Been pumping and let recharge then pump dry again
- finish developing CB-MW-05 pumped out 8+ well volumes and a final turbidity of 20 NTU
- CB-MW-04 still being developed

11:05 - Pumped CB-MW-06 dry waiting on recharge

12:00 + 3:00 - Finished Developing CB-MW-04
- Pumped CB-MW-03 and CB-MW-02 Dry after about one well volume
- wait for recharge

14:00 - finish developing CB-MW-06
- Pump CB-MW-01 dry after about 1 well volume wait for recharge
CB-MW-03 and CB-MW-02 recharge rate is about 60 minutes for full recharge

16:00 - Recharge rate for CB-MW-01 is about 1' every 10 mins
- After 30 min only 3' of the original 8.25' water Colume returne. - Pump dry again

17:00 - CB-MW-01 never fully recharge - pumped dry after 30 min 4 times. Turbidity was left at 190 NTU
CB-MW-02 and CB-MW-03 recharge after about an hour pumped dry 3 to 4 times well might not have fully recharge before pumping end turbidity were 100+ NTU for each.
- off site

Field Personnel: ~~Joe Trzaski~~ Keith Wolkert, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

Date 6/8/11

LEA Comm. No.	**61SL902.003**
Project	Highland Hills Study
Location	Old Southington Landfill, Southington, CT
Client	OSL Site Group - OOSL

pH Meter/Serial # 800

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	10E100238	4	7	10	1000	100	100
Calibration Check	PH#2	4	7	10	1000	—	—
Calibration Check							

Turbidity Meter/Serial # 810

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	3520	0	20	100	800
Calibration Check	3521	0	20	100	800
Calibration Check					

~~PID Meter/Serial #~~

	Time	Standard	Meter Reading	Zero with
Initial Calibration				
Calibration Check				
Calibration Check				

~~Balance/Serial #~~

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel ~~Joe Trzaski~~ Keith Volkert Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	61SL902.003	Page 4 of 9
Project	~~Highland Hills Study~~ Vapor Intrusion GW Invest.	Date 6/3/11
Location	Old Southington Landfill, Southington, CT	Time ___:___
Client	OSL Site Group - OOSL	

Monitoring Well Number CB-MW-05 Sample Number(s) ——

Initial Field Data and Measurements

Depth of Well 16.9 Reference Used TOR
Depth to Water 9.26 PID/FID Reading —
Height of Column 7.64 Interface Yes / (No) If yes, Depth NA Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / (Stickup)
Ground to Reference
Comments 1 well volume = 1.22 gallons

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Purge Volume Factors
- *0.5" - 0.01*
- *1" - 0.041*
- *1.5" - 0.091*
- *(2" - 0.16)*
- *4" - 0.65*
- *6" - 1.5*

Volumes / Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial ✓	0	10.6	8.69	974	—	
	1.5	12.3	7.26	829	—	
	2.4	10.4	7.17	962	—	surge
	3.6	10.5	7.20	918	266	
	4.8	10.3	7.18	921	88.6	
✓	9.0	10.2	7.09	986	34.8	
8.36	10.2	10.1	7.08	987	20.1	

Initial Sample Observations
- Clear ☐
- Colored ☐
- Cloudy ☐
- Turbid ☒
- Odor ☐
- Sheen ☐

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) ~~Double~~ Double whale
Field Decontamination? (Yes) / No If Yes, with what? DI H_2O rinse
Waste Container ID OSL-CT-23

Additional Comments well runs dry after one well volume
- well fully recharge after 10 mins.

Field Personnel ~~Joe Trzaski~~ Keith Volkert Nate Emmons Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	61SL902.003	Page 5 of 9
Project	~~Highland Hills Study~~ Vapor Intrusion GW Invest.	Date 6/3/11
Location	Old Southington Landfill, Southington, CT	Time :
Client	OSL Site Group - OOSL	

Monitoring Well Number CB-MW-06 Sample Number(s) —

Initial Field Data and Measurements

Depth of Well 16.91 Reference Used TOR
Depth to Water 12.29 PID/FID Reading —
Height of Column 4.62 Interface Yes / ~~No~~ If yes, Depth NA Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments 1 well volume = ~~0.78~~ 0.74 gallons

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Purge Volume Factors
0.5" - 0.01
1" - 0.041
1.5" - 0.091
2" - 0.16
4" - 0.65
6" - 1.5

Initial Sample Observations
Clear
Colored
Cloudy
Turbid ✓
Odor
Sheen

Volumes / Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial	0	12.2	7.24	86.2	—	
	1	11.6	6.69	78.2	—	
	2	12.1	6.61	77.4	544	Surge
	3	12.5	6.74	75.1	157	
	4	11.5	6.70	76.1	118	
	5	11.7	6.70	75.8	43.7	
	6	11.5	6.70	76.0	22.1	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Double Whale
Field Decontamination? Yes / No If Yes, with what? DI H_2O rinse
Waste Container ID OSL-CT-023

Additional Comments well ran dry after ½ ~~one~~ well volume was pumped
- well recharges full after 10min.
- well keeps running dry - keep letting well recharge then pump dry.

Field Personnel ~~Joe Trzaski~~ Keith Volkert Nate Emmons Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	**61SL902.003**	Page 6 of 9
Project	~~Highland Hills Study~~ VAPOR INTRUSION GW INVEST.	Date 6/3/11
Location	Old Southington Landfill, Southington, CT	Time ___:___
Client	OSL Site Group - OOSL	

Monitoring Well Number CB-MW-03 Sample Number(s)

Initial Field Data and Measurements

Depth of Well 17.90 Reference Used T of R
Depth to Water 10.39 PID/FID Reading
Height of Column 7.51 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments 1 well vol = 1.2 gal

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Purge Volume Factors
0.5" - 0.01
1" - 0.041
1.5" - 0.091
2" - 0.16
4" - 0.65
6" - 1.5

Volumes \ Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial	1.2	18.5	7.50	397.1	1000+	
	2.4	19.4	7.45	341.8	989	
	3.6	17.6	6.75	330.1	640	
	4.2	17.4	6.70	328.7	123	

Initial Sample Observations
- Clear
- Colored
- Cloudy
- Turbid ✓
- Odor
- Sheen

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other whale
Field Decontamination? (Yes) / No If Yes, with what? DI H_2O rinse
Waste Container ID OSL-OT-023

Additional Comments Well Surged, then Pumped Dry 4 times
It took about an hour for the well to Recharge

Field Personnel Joe Trzaski

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	**61SL902.003**	Page 7 of 9
Project	~~Highland Hills Study~~ VAPOR INTRUSION GW INVEST.	Date 6/3/11
Location	Old Southington Landfill, Southington, CT	Time ___:___
Client	OSL Site Group - OOSL	

Monitoring Well Number CB-mw-04 Sample Number(s) _____

Initial Field Data and Measurements

Depth of Well 16.90 Reference Used T&R
Depth to Water 7.86 PID/FID Reading _____
Height of Column 8.04 Interface Yes / (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / (Stickup)
Ground to Reference 30"
Comments 1 well vol. = 1.28 gallons

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Purge Volume Factors
- *0.5" - 0.01*
- *1" - 0.041*
- *1.5" - 0.091*
- *2" - 0.16*
- *4" - 0.65*
- *6" - 1.5*

Volumes / Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial 8:20	1.28	19.6	7.69	769	1000+	
9:00		17.3	7.34	747	1000+	
9:25					982	
10:05	4.25	18.2	7.22	742	274	
10:40	5.25	14.1	7.24	746	73.5	
11:10	6.50	15.4	7.24	747	35.6	

Initial Sample Observations
- Clear ☐
- Colored ☐
- Cloudy ☐
- Turbid ✓
- Odor ☐
- Sheen ☐

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other whale
Field Decontamination? (Yes) / No If Yes, with what? DI Rinse
Waste Container ID OSL-CT-023

Additional Comments Well Pumped Dry in Less than 1 minute. It takes about 30 minutes to Recharge.
Well was Surged twice, Pumped Dry 6 times

Field Personnel Joe Trzaski

Signature [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	61SL902.003	Page 8 of 9
Project	~~Highland Hills Study~~ VAPOR INTRUSION GW INVEST.	Date 6/3/11
Location	Old Southington Landfill, Southington, CT	Time ___:___
Client	OSL Site Group - OOSL	

Monitoring Well Number CB-MW-02 Sample Number(s) _____

Initial Field Data and Measurements

Depth of Well 16.90 Reference Used TofR
Depth to Water 9.01 PID/FID Reading _____
Height of Column 7.89 Interface Yes / (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference _____
Comments 1 well vol = 1.2 gallons

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Purge Volume Factors
0.5" - 0.01
1" - 0.041
1.5" - 0.091
2" - 0.16
4" - 0.65
6" - 1.5

Volumes / Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial	1.2	19.2	7.33	400.4	1000+	
	2.4	17.6	7.34	403.8	857	
	3.6	18.2	7.28	387.4	521	
	4.25	16.0	7.18	344.2	109	

Initial Sample Observations
- Clear ☐
- Colored ☐
- Cloudy ☐
- Turbid ✓
- Odor ☐
- Sheen ☐

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other whale
Field Decontamination? (Yes) / No If Yes, with what? DI rinse
Waste Container ID OSL-CT-023

Additional Comments Well surged then Pumped Dry 4 times
It took about 1 hr for the well to Recharge.

Field Personnel Joe Trzaski

Signature Nate Emmons

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Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
WELL DEVELOPMENT

LEA Comm. No.	61SL902.003	Page 9 of 9
Project	~~Highland Hills Study~~ Vapor Intrusion GCO Invest.	Date 6/3/11
Location	Old Southington Landfill, Southington, CT	Time __:__
Client	OSL Site Group - OOSL	

Monitoring Well Number CTB-MW-01 Sample Number(s) —

Initial Field Data and Measurements

Depth of Well 15.10 Reference Used TOR
Depth to Water 6.85 PID/FID Reading
Height of Column 8.25 Interface Yes / (No) If yes, Depth NA Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / (Stickup)
Ground to Reference —
Comments 1.32 gallon = 1 well volume

General Condition	OK	Bad
Casing Secure	—	
Collar Intact	—	
Cover Locked	—	
Other (describe)		

Development Information

Purge Volume Factors
0.5" - 0.01
1" - 0.041
1.5" - 0.091
(*2" - 0.16*)
4" - 0.65
6" - 1.5

Volumes / Parameter	Gallons	Temp (C)	pH (SU)	Spec.Con.	Turbidity	Other
Initial	0	11.4	7.89	781.3	—	
	2	11.2	7.53	764.2	—	
	3	11.5	7.31	744.7	275	
3.03	4	11.3	7.30	751.0	190	

Initial Sample Observations
- Clear
- Colored
- Cloudy
- Turbid ✓
- Odor
- Sheen

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Dedicated whale
Field Decontamination? (Yes) / No If Yes, with what? DI H_2O Rinse
Waste Container ID OSL-CT-023

Additional Comments Well ran dry just shy of 1 well volume - Recharge 8' 30mins - Pump Dry again - wait for recharge

Field Personnel ~~Joe Trzaski~~ Keith Volkert Nate Emmons Signature

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. ~~0000100.001~~ 61SL902.003
Project VAPOR INTRUSION GW INVEST.
Location OSL ~~LEA, Plainville, CT~~
Client

Page 1 of 3
Date 6/4/11

Arrived at Site 800 Departed from Site 1530 Vehicle ST-17
Odometer (Start) Return

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [x] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	Lwerd
Sampling for	
Laboratories used	
Paperwork & Equipment left at/in	Office
Site Contact	
Contractors on Site	LEA
Time and place to meet contractors	

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
	✓		Sample labels complete
	✓		Sample/cooler seals OK
	✓		All samples obtained
	✓		Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 86 Precipitation None Wind Slight
Comments

Checked By IT

Expendable Items Used

Qty	Item	LEA Number
	Decontamination Supplies	081
1	Miscellaneous Health & Safety Items	060
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
1	Miscellaneous Small Tools & Equipment	152
	Thermo-Anemometer	248
1	Helium Detector	
1	SKC Air Pump	

Field Personnel Keith Volkert, Sam Rooney

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Job No.	~~00100~~ 61SC902.003	Page 2 of 3
Project	~~General Overhead~~ Vapor Intrusion GW Invest.	Date 6/4/14
Location OSL	~~LEA, Plainville, CT~~	
Client		

Description of Site Activities

800 - on site
- setup at Chuck and Eddie vapor points
1345 - Test Chuck and Eddies vapor wells
- well by universal waste passed ~~[illegible]~~
The well by the AST failed test again well failed
- Move over to 2 vapor wells at Radio station
Start with one to the North - well failed but helium detector was ~~[illegible]~~ giving reading in ambient air
- would not level off continue to climb to 700ppm+
- took meter outside changed out filter and reset
Meter reading 0ppm test Southern vapor well well passed.
- Helium detector meter reading 0ppm as you walk from Southern well to Northern well until you hit ~~[illegible]~~ well vent then meter would jump to 100ppm and continue climbing
- Tried to set a base value to ~~[illegible]~~ retest North well unable to set base.
- Restart Meter - meter reading 0ppm and staying at 0ppm
- Retest Northern vapor in Radio station - vapor well passed
- Go back to Chuck and Eddie to try to retest well by AST - unable to zero Helium ~~[illegible]~~ detector reading 225+ppm for ambient air.
- Go Test GP-7
1430 - GP-7 failed test retest and failed again - go test GP-9.
1500 - GP-9 failed initial test - check all seals and it failed again.
1530 - off site

Field Personnel Keith Volkat
Sam Rooney

Signature

Old Southington Landfill
Vapor Intrusion GW Investigation
61SL902
5/26/2011

Vapor Probe Integrity Testing

3 of 3

Probe	Probe Diameter (in)	Annulus Diameter (in)	Screened Interval (ft)	Depth (ft)	Depth of Seal (ft)	GW Depth (ft)	Air Volume (ft3)	Air Volume (L)	Air Exchange Time (min)	Time Started Purging	Time Ended Purging	Pass OR Fail	Helium Detection
Landfill													
GP-1	0.75	8	5 - 10	10	3	1.35							
GP-2R	1	8	5 - 10	10	4	6.14	0.45	12.81	96.10				
GP-3R	1	8	5 - 10	10	4	6.23	0.44	12.55	94.13				
GP-4	0.75	8	4.5 - 9.5	9.5	3	6.52	0.34	9.59	71.89				
GP-5	0.75	8	3.5 - 8.5	8.5	3	3.78							
GP-6	0.75	8	5.5 - 10.5	10.5	3	5.5							
GP-7	0.75	8	5.5 - 36.5	36.5	3	32.05	3.59	101.65	762.36	1400	1407	fail	200ppm
GP-8													
GP-9	0.75	8	5.5 - 30.5	30.5	3	26.15	2.95	83.49	626.17	1435	1440	failed	225ppm
GP-10	0.75	8	3.5 - 17.5	17.5	3	13.3	1.56	44.14	331.08				
Chuck & Eddies													
GP-1 AST	1	3	1.5 - 2.5	2.5	1	NA	0.03	0.94	7.07	1030	1034	failed	225
GP-2 Universal waste yard Factory	1	3	1.5 - 2.5	2.5	1	NA	0.03	0.94	7.07	425	432	Pass	
Radio Station										1200	1207	Pass	
GP-1 Stubbs	1	3	1.5 - 2.5	2.5	1	NA	0.03	0.94	7.07	1128	1135	failed	600 *3
GP-2 Closest to Driveway	1	3	1.5 - 2.5	2.5	1	NA	0.03	0.94	7.07	1148	1153	Pass	*3

look at Supplement sheet

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No. ~~0000100.001~~ 61SL901.004
Project OSL
Location ~~LEA, Plainville, CT~~ Southington, CT
Client

Page 1 of 2
Date 6/10/11

Arrived at Site 700 Departed from Site 1530 Vehicle ST-19
Odometer (Start) Return 2 mi R.T.

Site Activities

- [ ] Soil Sampling
- [ ] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [x] Vapor Probe Leak Testing
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used
Last Location ID Used
Current Location (if not complete)
Sampling for
Laboratories used
Paperwork & Equipment left at/in
Site Contact
Contractors on Site
Time and place to meet contractors

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
	X		Sample labels complete
	X		Sample/cooler seals OK
	X		All samples obtained
	X		Chains of custody
X			All forms/logs complete
X			Site condition OK
X			Site H&S Plan on site
X			Instruments calibrated

Checked By JT

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 80s Precipitation none Wind minimal
Comments

Sunny, clear, hot

Expendable Items Used

Qty	Item	LEA Number
	Decontamination Supplies	081
1	Miscellaneous Health & Safety Items	060
	Water, Distilled	025
2	Tedlar bags (3-liter)	
1	Tedlar bag (1-liter)	
1/2	box molding clay	

Equipment Used

Qty	Item	LEA Number
1	Miscellaneous Small Tools & Equipment	152
	Thermo-Anemometer	248
1	Helium detector (rental)	
1	SKC pump (rental)	
1	DC Lite pump calibrator (rental)	
1	Leak test bucket setup	

Field Personnel Kyle Zalaski, Luke Chmielecki

Signature Kyle Zalaski

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

Job No. ~~00100~~ 615L907.004
Project ~~General Overhead~~ OSL
Location Southington ~~LEA, Plainville,~~ CT
Client

Page 2 of 2
Date 6/10/11

Description of Site Activities

7[00] At yard; test equipment

8[20] L.C. at yard; load equipment, get dirt for probe testing

8[55] At Chuck & Eddie's

9[10] Charlie (at C&E) told us that we cannot perform testing

- Called Joe T. at office; will continue at radio station

9[25] At radio station

- Calibrate (zero-out) helium detector; check inside of building for readings of helium/hydrogen: 0 ppm inside

9[50] Set up at probe near entrance

Purge probe air into Tedlar bag (3-liter); bring outside and test with helium detector; no detections → Probe passes test

Set up at probe in corner near DJ booth; probe passes

11[20] Finish Testing; talk with Joe T; will continue testing LF probes

12 Drop off equipment; LEA offsite

1[230] LEA onsite at OSL

1[300] Set up at GP-3R for leak test

1[315] Probe fails; reseal probe & retest: GP-3R fails again

1[330] Set up at GP-4

1[430] Complete leak test at GP-4: Probe passes.

1[500] Drop off equipment, complete paperwork

1[530] LEA offsite

Field Personnel Kyle Zalaski, Luke Chmielecki

Signature Kyle Zalaski

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**61SL902.003**	Page 1 of 11
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Arrived at Site 0800 Departed from Site 1630 Vehicle F150, ST-27

Odometer (Start) Return

Site Activities

	Soil Sampling		Geoprobe Work
✓	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
✓	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	
Sampling for	VOCs
Laboratories used	TAI
Paperwork & Equipment left at/in	office/yard
Site Contact	JT
Contractors on Site	LEA Nobis
Time and place to meet contractors	0800 on site.

Non-productive Time

✓	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Checked By

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	25 Gallons	OSL-CT-024
Decon Fluid	5 Gallons	OSL-CT-024
PPE		
Other		

Weather Conditions

Temperature 80° Precipitation none Wind slight

Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
1	Drum, Closed Top 55 Gallon	086
3	Filter, In Line	024
	Gas Probes, 5' Stainless Steel	110
1	Miscellaneous Health & Safety Items	060
	Tedlar Bags	079
150'	Tubing, 1/2", NOS	007
	Tubing, 3/8", NOS	008
1	Water, Distilled	025
1	PID	
3	WLI	

Equipment Used

Qty	Item	LEA Number
	Air Sampler-MSA Escort Elf	047
	Drill, Hilti, incl. Concrete Anchors	010
	Gauge, Magnehelic Vacuum	133
3	Generator 3500 Watt	153
	Hand Auger, w/ attachments	013
	Helium Detector	091
	Meter, Conductivity	022
3	Meter, pH/Temp YSI	021
1	Miscellaneous Small Tools & Equipment	152
3	Pump, Grundfos	073
1	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Soil Gas Sampler	078
	Soil Gas Survey Equipment	087
3	Turbidimeter	023

Field Personnel Luke Chmielecki Jeremy Corcoran *Signature*

Jeremy Marcantonio

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page 2 of 11
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Description of Site Activities

0700 at yard.
Cal'd equipment.
Discussed H+S and SOW.
Mobilized to Radio Station.
Corey of Nobis on site 0820.
0830 LPC over to Chuck + Eddies to set sumas.
1230176 south end. 1230177 north end.
0950 radio station opens.
1230178 south end. 1230179 north end.
Chuck + Eddie's wells blocked by jersey barriers.
Requested to have them moved.
1315 Jersey barriers moved.
LPC grabs all sumas.
Headed back to Radio Station wells to collect filtered w/grundfos and unfiltered w/peri.
1600 taking care of waste.
55 ~~dac~~
→ open top drums on landfill. 5 closed top.
1630 off site.

Field Personnel	Luke Chmielecki Jeremy Marcantonio	Jeremy Corcoran	Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**61SL902.003**	Page 3 of 11
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

pH Meter/Serial # 10F014Q / 10F024Q / 30F008Q

	① Time ②	pH 4.01 ③	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	0710	4.01	7.00	10.00	1000	100	100
Calibration Check	0725	4.00	7.00	10.01	1000	100	100
Calibration Check	0740	4.00	7.00	10.01	1000	100	100

Turbidity Meter/Serial # 3519

	① Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	0750	✓	✓	✓	✓
Calibration Check	↓	✓	✓	✓	✓
Calibration Check		✓	✓	✓	✓

PID Meter/Serial # 3049

	Time	Standard	Meter Reading	Zero with
Initial Calibration	0800	100	100	Background
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel	Luke Chmielecki	Jeremy Corcoran	*Signature*
	Jeremy Marcantonio		

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.	**61SL902.003**		Page 4 of 11
Project	Vapor Intrusion-GW Investigation		Date 6/15/11
Location	Old Southington Landfill, Southington, CT		
Client	OSL Site Group		

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1230193	Trip	0900	BKT	—	—	3 VOA vials	—
(50) 1230192	CB-MW-06	1425	DUP	NA	0.1	Duplicate of 1230183	
1246253 ~~1230188~~ a	CB-MW-01	1520	Grab	NA	NM	Taken with grundfos filtered.	
1230175 ~~1230188b~~	CB-MW-01	1525	Grab	NA	NM	Taken with peristaltic	
(50) 1246254 ~~1230184~~	CB-MW-02	1530	Grab	NA	NM	Taken with grundfos filtered.	
1230189 ~~1230184b~~	CB-MW-02	1535	Grab	NA	NM	Taken with peristaltic	
1246274 ~~1230180a~~	CB-MW-03	1540	Grab	NA	NM	Taken with grunfos filtered	
(50) 1230194 ~~1230180b~~	CB-MW-03	1545	Grab	NA	NM	Taken with peristaltic	

Field Personnel	Luke Chmielecki Jeremy Marcantonio	Jeremy Corcoran	Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
SOIL VAPOR SCREENING

LEA Comm. No. 61SL902.003
Project Vapor Intrusion-GW Investigation
Location Old Southington Landfill, Southington, CT
Client OSL Site Group

Date 6/15/11

Sample ID	Location ID	Time start	~~Depth~~ (ft) Time end	High Reading	Low Reading	Flow Rate	PID/FID Reading	Probe #/ Comments
1230176	CE-SV-02	0841	1431	-30	-8	6 hr	NM	4369
1230177	CE-SV-01	0842	1432	-30	-8	6 hr	NM	4443
1230178	RS-SV-02	0955	1455	-30	-10	6 hr	NM	(cc) ~~5182~~ 1650
1230179	RS-SV-01	0956	1456	-30	-10	6 hr	NM	(cc) ~~5184~~ 6532

Field Personnel Luke Chmielecki, Jeremy Marcantonio, Jeremy Corcoran

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 6 of 11
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	Sample Time 10:56
Client	OSL Site Group	

Monitoring Well Number CB-MW-02 Sample Number(s) 1230184 N/A

Initial Field Data and Measurements

Depth of Well 16.93 Reference Used TOR
Depth to Water 8.98 PID/FID Reading 0.1 ppm
Height of Column 7.95 Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2 inch Material PVC
Protector (Road Box) / Stickup
Ground to Reference NM
Comments N/A

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)	N/A	

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
8:55	Began Purging at 100 ml/min										N/A
9:05	9.99	75hz	100	1.0	15.4	383.9	7.37	-42.1	1.57	406	
9:15	10.25	78hz	100	2.0	15.7	366.4	7.34	-0.7	2.85	163	
9:25	12.01	78hz	100	3.0	15.9	386.8	7.35	-34.1	3.39	170	
9:35	12.01	78hz	100	4.0	16.1	383.6	7.30	-8.1	4.89	161	
9:45	12.01	79hz	100	5.0	16.6	368.7	7.29	3.9	5.56	31.5	
9:55	12.01	80.10hz	100	6.0	16.9	351.7	7.31	14.9	6.08	12.3	
10:05	11:59	80.10hz	100	7.0	17.4	348.7	7.30	3.7	5.72	31.9	
10:15	10.40	91.10hz	100	8.0	17.0	314.0	7.27	5.6	5.95	44.5	
10:25	9.55	99hz	100	9.0	18.5	298.2	7.23	24.7	5.25	38.1	
10:35	9.15	130hz	100	10.0	18.3	283.1	7.22	19.4	5.19	18.1	
10:45	9.00	138hz	100	11.0	19.2	298.8	7.22	28.9	4.89	44.2	
10:55	9.00	206hz	100	12.0	22.3	298.6	7.22	30.4	4.78	37.2	
10:56	Collect Sample			(See comments)							
				N/A							

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Grundfos pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI/methanol pumped through pump also wipe off water level meter
Waste Container ID

Additional Comments Sampled for VOC's 8260RCP-CT RCP Compound list, Grundfos pump not consistent had to continually adjust to maintain purge rate. well not stable at 2 hour mark and is not showing it will stabilize. sample well per direction of field lead.

Field Personnel Luke Chmielecki (Jeremy Corcoran) Signature
Jeremy Marcantonio N/A

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 7 of 11
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	Sample Time 11:10
Client	OSL Site Group	

Monitoring Well Number CB-MW-01 Sample Number(s) 1230188

~~Grundfos~~ LC

Initial Field Data and Measurements

Depth of Well 15.20 Reference Used TOR

Depth to Water 5.75 PID/FID Reading 0.2

Height of Column 9.45 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC

Protector Road Box / Stickup

Ground to Reference

Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
0945	5.75	60	100	0							start
0955	6.80	70		1	13.7	336	6.35	41.7	2.90	NM	
1005	7.77	80		2	13.8	337	6.34	41.2	2.67	NM	
1015	8.81	90		3	15.5	336	6.35	33.9	2.10	200	
1025	9.90	100		4	13.7	330	6.34	26.3	3.99	185	
1035	10.20	110	100	5							Well Dry

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Grundfos

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol

Waste Container ID

Additional Comments Sampled upon recovery. 1110.
See misc. sample sheet for additional samples collected at this well.

Field Personnel Luke Chmielecki Jeremy Corcoran *Signature*
Jeremy Marcantonio

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 8 of 11
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	Sample Time 11:30
Client	OSL Site Group	

Monitoring Well Number CB-MW-03 Sample Number(s) 1230180

Initial Field Data and Measurements

Depth of Well 18.42 Reference Used TOC
Depth to Water 10.98 PID/FID Reading 0.0
Height of Column 7.44 Interface Yes (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) Stickup
Ground to Reference TOC
Comments _____ JM

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C) 3%	Spec. Cond. (uS/cm) 3%	pH (SU) 0.1	ORP (Eh) 10	DO (mg/L) 10%	Turbidity (NTU) 25	Comment
9:00	10.98	86 Hz	100	Ø							Purging
9:10	11.58	86 Hz	100	0.75	15.4	371.2	7.34	-37.7	1.83	258	
9:20	11.74	85 Hz	100	1.5	16.4	382.3	7.36	-70.9	1.95	180	
9:30	12.17	86 Hz	100	2.25	16.5	371.4	7.31	-54.9	2.31	191	
9:40	12.20	87 Hz	100	3.0	16.4	365.1	7.30	-44.3	2.59	225	
9:50	12.31	87 Hz	100	3.75	17.4	363.1	7.30	37.8	2.83	192	
10:00	12.43	87 Hz	100	4.5	16.8	358.3	7.29	-34.3	2.72	166	
10:10	12.24	86 Hz	100	5.25	17.4	365.7	7.30	-53.4	5.30	112	
10:15		Generator Died					Began Purging 10:45				
10:55	11.90	87 Hz	100	6	14.3	352.0	7.44	-3.4	4.39	82.1	
11:05	12.45	87 Hz	100	6.75	16.6	353.6	7.35	-37.1	3.73	87.4	
11:15	12.50	87 Hz	100	7.5	17.5	360.3	7.35	-47.4	3.49	119	
11:20	12.51	87 Hz	100	8.25	17.8	359.0	7.34	-45.5	3.46	99.7	
11:25	12.53	87 Hz	100	8.75	18.0	356.7	7.34	-41.4	3.37	81.4	
11:30	12.57	87 Hz	100	9.25	18.2	355.7	7.33	-38.7	3.42		
SAMPLE											
							JM				

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Grundfos

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? WL - DI/Methanol/DI; Pump - DI/Methanol Rinse
Waste Container ID _____

Additional Comments 1015 - Generator died. Had to go fill gas can. 1045 - Began Purging. Well is relatively stable other than turbidity at 2 hour mark. Taking sample after 2 hours.

VOCs only

Field Personnel Luke Chmielecki, Jeremy Corcoran, Jeremy Marcantonio

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 9 of 11
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	Sample Time 14:25
Client	OSL Site Group	

Monitoring Well Number CB-MW-06 Sample Number(s) 1230183 1230192

Initial Field Data and Measurements

Depth of Well 17.15 Reference Used TOR
Depth to Water 11.98 PID/FID Reading 0.1
Height of Column 5.17 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1330	11.98	80	100	0							Start
1340				1	15.8	128	6.48	147.1	7.04	21.9	
1350				2	16.2	125	6.66	162.5	6.70	18.6	
1400				3	16.0	125	6.66	165.9	6.70	12.2	
1410				4	15.2	126	6.65	168.8	6.63	7.30	
1415				4.5	16.0	125	6.63	169.4	6.52	4.80	
1420				5	15.8	125	6.64	169.0	6.58	4.71	
1425	11.98	80	100	5.5	15.9	125	6.64	169.1	6.56	4.70	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Grundfos

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID

Additional Comments Duplicate sample taken under 1230192.

Field Personnel Luke Chmielecki Jeremy Corcoran *Signature*
Jeremy Marcantonio

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 10 of 11
Project	Vapor Intrusion-GW Investigation	Date 6 / 15 / 11
Location	Old Southington Landfill, Southington, CT	Sample Time 14 : 26
Client	OSL Site Group	

Monitoring Well Number CB-MW-05 Sample Number(s) 1230185 N/A

Initial Field Data and Measurements

Depth of Well 16.92 Reference Used T.R
Depth to Water 9.11 PID/FID Reading 0.0
Height of Column 7.81 Interface Yes / No If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2 Material PVC
Protector Road Box / Stickup
Ground to Reference NM
Comments N/A

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)	N/A	

Development Information

Time \ Parameter	Depth to Water	Pump Setting (Hz)	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
13:30	Began Purging at 100 ml/min										N/A
13:40	9.47	72Hz	100	1.0	12.8	813	6.80	42.9	0.30	259	
13:50	9.47	72Hz	100	2.0	12.7	826	6.68	96.8	0.20	53.2	
14:00	9.47	72Hz	100	3.0	12.9	847	6.68	105.4	0.23	26.5	
14:10	9.47	72Hz	100	4.0	12.9	839	6.69	105.7	0.23	9.72	
14:15	9.47	72Hz	100	4.5	12.9	831	6.70	103.6	0.22	4.75	
14:20	9.47	72Hz	100	5.0	12.9	838	6.70	104.1	0.22	4.12	
14:25	9.47	72Hz	100	5.5	12.9	842	6.70	104.9	0.22	3.77	
14:26	well stable collect sample										

N/A

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Grundfos pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI / methanol pumped through pump and wipe of water level indicator
Waste Container ID

Additional Comments Sampled for VOCs 8260 RCP - CT RCP Compound list.

Field Personnel Luke Chmielecki Jeremy Corcoran *Signature*
Jeremy Marcantonio N/A

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 11 of 11
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	Sample Time 15:10
Client	OSL Site Group	

Monitoring Well Number CB-MW-04 Sample Number(s) 1230181

Initial Field Data and Measurements

Depth of Well 17.41 Reference Used TOR
Depth to Water 7.73 PID/FID Reading 54.6
Height of Column 9.68 Interface Yes / (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / (Stickup)
Ground to Reference TOR
Comments (JM)

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	3% Temp (C)	3% Spec. Cond. (uS/cm)	0.1 pH (SU)	10 ORP (Eh)	10% DO (mg/L)	25 Turbidity (NTU)	Comment
13:25	7.73	60 Hz	80	Ø							Purging
13:35	7.93	60 Hz	80	0.80	14.9	853	7.03	-70.3	0.55	999	
13:45	7.91	60 Hz	80	1.60	15.3	866	6.98	-69.2	0.32	923	
13:55	7.91	60 Hz	80	2.40	15.6	881	6.96	-66.6	0.24	774	
14:05	7.91	60 Hz	80	3.20	16.0	890	7.04	-35.4	11.33	416	
14:15	7.72	60 Hz	80	4.00	16.4	882	6.95	-40.8	0.65	482	
14:25	7.76	60 Hz	80	4.80	16.4	887	6.96	-42.1	0.52	366	
14:35	7.79	60 Hz	80	5.60	16.2	876	6.95	-44.3	0.61	317	
14:45	7.81	60 Hz	80	6.40	16.0	881	6.97	-45.2	0.59	224	
14:55	7.81	60 Hz	80	7.20	16.1	883	6.96	-47.2	0.63	177	
15:00	7.81	60 Hz	80	8.00	16.1	879	6.96	-51.4	0.65	192	
15:05	7.82	60 Hz	80	8.80	16.2	880	6.95	-42.3	0.65	111	
15:10	7.82	60 Hz	80	9.60	16.2	884	6.95	-44.5	0.69	73.4	
SAMPLE											

(JM)

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Grundfos Pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) No If Yes, with what? DI / Methanol wipe and rinse
Waste Container ID

Additional Comments [redacted] (JM)

VOCs only

Field Personnel Luke Chmielecki, Jeremy Marcantonio, Jeremy Corcoran

Signature

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: LC, JM, JC	TAT Required (business days): standard	Lab PM/Contact: Jill Duhancik
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only):
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No
City, State, Zip: Plainville, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):
Phone: 860-747-6181	WO #:		
Email:	Project #: 615L902.003	State Regulatory QC Criteria Requirements: CT RCPs + RSRs	Analysis (Attach list if more space is needed)
Project Name/Site Location (State): OSL, CT	SSOW#:		

COC Number: 19857
Page 1 of 2
Carrier Tracking Notes:

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

No. of Containers/Preservatives

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	8260 RCP CT RCP Compound List	Comments
	1230188	6/15/11	1110	Aq	No				3				X	
	1230188a		1520						3				X	
	1230188b		1525						3				X	
	1230184		1056						3				X	
	1230184a	(4)	1530	(4)	(4)				3				X	
	1230184b		1535						3				X	
	1230180		1130						3				X	
	1230180a		1540						3				X	
	1230180b		1545						3				X	
	1230193	6/15/11	0900	Aq	No				3				X	

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/15/11 1622	LEA	[signature]	6/15/11 1622	TACT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments: GA Area

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: LC, JM, JC	TAT Required (business days): standard	Lab PM/Contact: Jill Duhancik	COC Number: 19858
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page 2 of 2
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860-747-6181	WO #:			
Email:	Project #: 615L902.03	State Regulatory QC Criteria Requirements: CT RCPs + RSRs	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL, CT	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	8260 RCP CT RCP Compound List									Comments
	1230181	6/15/11	1510	Aq	No				3				X									
	1230183	↓	1425	↓	↓				3				X									
	1230185	↓	1426	↓	↓				3				X									
	1230192	6/15/11	1425	Aq	No				3				X									

Relinquished by:	Date/Time: 6/15/11 1022	Company LEA	Received by:	Date/Time: 6/15/11 1022	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments: GA Area

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**61SL902.003**	Page 1 of 2
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Arrived at Site 700 Departed from Site 800 Vehicle Personal

~~Odometer (Start)~~ ~~Return~~ 1 mi. R.T.

Site Activities

	Soil Sampling		Geoprobe Work
	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling	X	Vapor Probe Integrity Testing
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	
Sampling for	
Laboratories used	
Paperwork & Equipment left at/in	Office
Site Contact	Joe T.
Contractors on Site	LEA

Non-productive Time

X	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Time and place to meet contractors: 7 am, Chuck & Eddies

Quality Assurance Checks

Yes	N/A	No	
	X		Sample labels complete
	X		Sample/cooler seals OK
	X		All samples obtained
	X		Chains of custody
X			All forms/logs complete
X			Site condition OK
X			Site H&S Plan on site
X			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 70s Precipitation none Wind none

Comments: Sunny, calm

Checked By

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
	Gas Probes, 5' Stainless Steel	110
X	Miscellaneous Health & Safety Items	060
X	Tedlar Bags (1-3 liter, 1-1 liter)	079
	Tubing, 1/2", NOS	007
	Tubing, 3/8", NOS	008
	Water, Distilled	025
X	Molding Clay	

Equipment Used

Qty	Item	LEA Number
	Air Sampler-MSA Escort Elf	047
	Drill, Hilti, incl. Concrete Anchors	010
	Gauge, Magnehelic Vacuum	133
	Generator 3500 Watt	153
	Hand Auger, w/ attachments	013
X	Helium Detector (rental)	091
	Meter, Conductivity	022
X	~~Meter, pH/Temp~~ Leak Test Setup	~~021~~
	Miscellaneous Small Tools & Equipment	152
X	Pump, ~~Grundfos~~ SKC (rental)	~~073~~
X	~~Pump, Peristaltic (spec. Master or Isco)~~ SKC Calibrator	~~040~~ (rental)
	Pump, Submersible	201
	Pump, Watera	038
	Soil Gas Sampler	078
	Soil Gas Survey Equipment	087
	Turbidimeter	023

Field Personnel: Luke Chmielecki, Jeremy Corcoran, Jeremy Marcantonio, Kyle Zalaski

Signature Kyle Zalaski

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page 2 of 2
Project	Vapor Intrusion-GW Investigation	Date 6/15/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Description of Site Activities

700 Onsite at Chuck & Eddies

725 Conduct vapor probe testing at probe at northern end of the hut (near battery storage). Probe passes test.

780 Conduct vapor probe (integrity) testing at probe at southern end of the hut (near oil AST). Probe passes test. Offsite.

815 Meet with LEA sampling group to pass information that the probes passed the integrity testing and summa canister sampling can start.

830 Drop off equipment at yard.

Field Personnel	Luke Chmielecki Jeremy Marcantonio	Jeremy Corcoran Kyle Zalaski	***Signature*** Kyle Zalaski

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	61SL902.003	Page 1 of 7
Project	Vapor Intrusion-GW Investigation	Date 6/16/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Arrived at Site 0745 Departed from Site 1545 Vehicle Personal 10 mi. RT

Odometer (Start) _____ Return _____

Site Activities

- [ ] Soil Sampling
- [x] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	LO
Current Location (if not complete)	
Sampling for	VOCs
Laboratories used	TAI
Paperwork & Equipment left at/in	office/yard
Site Contact	JT
Contractors on Site	LEA
Time and place to meet contractors	LO

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	5 Gal.	OSL-CT-024
Decon Fluid	2 Gal.	OSL-CT-024
PPE		
Other		

Checked By

Weather Conditions

Temperature 83° Precipitation none Wind slight

Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
	Gas Probes, 5' Stainless Steel	110
1	Miscellaneous Health & Safety Items	060
	Tedlar Bags	079
75'	Tubing, 1/2", NOS	007
20'	Tubing, ~~3/8"~~, NOS 1/4" Poly	008
1	Water, Distilled	025
1	PID	
1	WL1	

Equipment Used

Qty	Item	LEA Number
	Air Sampler-MSA Escort Elf	047
	Drill, Hilti, incl. Concrete Anchors	010
	Gauge, Magnehelic Vacuum	133
1	Generator 3500 Watt	153
	Hand Auger, w/ attachments	013
	Helium Detector	091
	Meter, Conductivity	022
1	Meter, pH/Temp YSI	021
1	Miscellaneous Small Tools & Equipment	152
1	Pump, Grundfos	073
1	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
	Soil Gas Sampler	078
	Soil Gas Survey Equipment	087
1	Turbidimeter	023

Field Personnel Luke Chmielecki ~~Jeremy Corcoran~~ LO ~~Jeremy Marcantonio~~ LO

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page 2 of 7
Project	Vapor Intrusion-GW Investigation	Date 6/16/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Description of Site Activities

0700 at yard.
Cal'd equipment.
Began at Barbara Lane.
Moved to Nunzio.
Moved to Chuck + Eddie's.
Downloaded data loggers.
Waste.
courier.
offsite.

Field Personnel	Luke Chmielecki ~~Jeremy Marcantonio~~	~~Jeremy Corcoran~~	***Signature***

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**61SL902.003**	Page 3 of 7
Project	Vapor Intrusion-GW Investigation	Date 6/16/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

pH Meter/Serial # 30F008Q

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	0730	✓	✓	✓	✓	✓	✓
Calibration Check							
Calibration Check							

Turbidity Meter/Serial # 2100Q01

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	0730	✓	✓	✓	✓
Calibration Check					
Calibration Check					

PID Meter/Serial #

	Time	Standard	Meter Reading	Zero with
Initial Calibration	0730	100	100	Background
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel: Luke Chmielecki, ~~Jeremy Corcoran~~ LC, ~~Jeremy Marcantonio~~ LC

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. **61SL902.003**
Project Vapor Intrusion-GW Investigation
Location Old Southington Landfill, Southington, CT
Client OSL Site Group

Page 4 of 7
Date 6/16/11

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1230191	Trip	0900	BKT	—	—	3 VOA vials	OSL-CT-024
1230190	Equipment	1200	BKE	—	—	3 VOA vials	OSL-CT-024

Field Personnel Luke Chmielecki, ~~Jeremy Corcoran~~, ~~Jeremy Marcantonio~~

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 5 of 7
Project	Vapor Intrusion-GW Investigation	Date 6/16/11
Location	Old Southington Landfill, Southington, CT	Sample Time 10:15
Client	OSL Site Group	

Monitoring Well Number CB-MW-08 Sample Number(s) 1230182

Initial Field Data and Measurements

Depth of Well 34.95 Reference Used TOR
Depth to Water 28.77 PID/FID Reading 0.1
Height of Column 6.18 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
0830	28.77	124	100	0							start
0840	28.82			1	17.9	354	7.04	128.7	8.27	NM	
0850	28.83			2	18.7	370	7.06	127.3	8.29	108	
0900	28.84			3	19.7	368	7.06	106.5	7.59	96.1	
0910	28.85			4	19.9	561	7.10	111.6	7.51	80.1	
0920	28.86			5	20.2	358	7.14	112.7	7.43	69.5	
0930	28.87			6	19.6	361	7.10	83.1	9.94	50.6	
0940	28.88			7	19.5	391	7.11	136.1	9.47	36.9	
0950	28.89			8	19.0	363	7.06	139.0	7.51	19.5	
1000	28.90			9	18.4	351	7.04	141.6	7.41	10.6	
1005	28.91			9.5	18.5	355	7.06	138.4	6.73	4.98	
1010	28.92			10	18.6	355	7.05	139.6	6.81	4.89	
1015	28.93	124	100	10.5	18.5	354	7.05	139.0	6.79	4.85	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Grundfos

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID OSL-CT-024

Additional Comments

Field Personnel Luke Chmielecki ~~Jeremy Corcoran~~ ~~Jeremy Marcantonio~~ *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 6 of 7
Project	Vapor Intrusion-GW Investigation	Date 6/16/11
Location	Old Southington Landfill, Southington, CT	Sample Time 11:45
Client	OSL Site Group	

Monitoring Well Number CB-MW-07 Sample Number(s) 1230186

Initial Field Data and Measurements

Depth of Well 33.05 Reference Used TOR
Depth to Water 25.53 PID/FID Reading 0.2
Height of Column 7.52 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1100	25.53	130	100	0							start
1110	25.58			1	18.8	482	7.71	36.2	10.05	9.55	
1120	25.59			2	19.2	487	7.72	136.4	8.50	4.69	
1130	25.60			3	19.0	486	7.72	70.9	7.78	3.37	
1135	25.61			3.5	18.6	483	7.73	135.0	10.24	3.11	
1140	25.62			4	18.5	484	7.73	130.6	10.34	2.96	
1145	25.63	130	100	4.5	18.6	484	7.72	133.9	10.30	2.95	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Grundfos

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID OSL-CT-024

Additional Comments

Field Personnel Luke Chmielecki ~~Jeremy Corcoran~~ ~~Jeremy Marcantonio~~ *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 7 of 7
Project	Vapor Intrusion-GW Investigation	Date 6/16/11
Location	Old Southington Landfill, Southington, CT	Sample Time 13:00
Client	OSL Site Group	

Monitoring Well Number SPW-9A Sample Number(s) 1230187

Initial Field Data and Measurements

Depth of Well 13.50 Reference Used TOR
Depth to Water 4.05 PID/FID Reading 0.0
Height of Column 9.45 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference _____
Comments _____

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1225	4.05	300	100	0							Start
1235				1	16.7	272	5.69	112.5	0.77	17.8	
1245				2	17.4	289	5.55	116.7	1.17	7.64	
1250				2.5	17.2	296	5.55	115.0	0.45	4.80	
1255				3	17.2	294	5.56	114.1	0.51	4.77	
1300	4.05	300	100	3.5	17.3	295	5.55	114.7	0.47	4.76	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol
Waste Container ID OSL-CT-024

Additional Comments

Field Personnel Luke Chmielecki ~~Jeremy Corcoran~~ ~~Jeremy Marcantonio~~ *Signature*

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: LPC	TAT Required (business days): 7 Day	Lab PM/Contact: Jill Duhancik	COC Number: 19594
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page 1 of 1
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860-747-6181	WO #:			
Email:	Project #: 615L902	State Regulatory QC Criteria Requirements: CT RCPs + RSRs	Analysis (Attach list if more space is needed)	Comments
Project Name/Site Location (State): OSL, CT	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	8260 RCP CT RCP Compound List									Comments
	1230182	6/16/11	1015	Aq	No				3				X									
	1230191	↓	0900	↓	↓				3				X									
	1230190	↓	1200	↓	↓				3				X									
	1230186	↓	1145	↓	↓				3				X									
	1230187	6/16/11	1300	Aq	No				3				X									

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/16/11	LEA	[signature]	6/16/11 1450	TACT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments: GA Area

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**61SL902.003**		Page 1 of 4
Project	Vapor Intrusion-GW Investigation		Date 6/23/11
Location	Old Southington Landfill, Southington, CT		
Client	OSL Site Group		

Arrived at Site 0800 Departed from Site 1130 Vehicle Personal 25 mi RT

Odometer (Start) Return

Site Activities

	Soil Sampling		Geoprobe Work
	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
X	Other Sampling Waste Soil		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	
Last Location ID Used	
Current Location (if not complete)	
Sampling for	see coc
Laboratories used	TAI
Paperwork & Equipment left at/in	office / yard
Site Contact	JT
Contractors on Site	LEA
Time and place to meet contractors	

Non-productive Time

✓	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Checked By

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater		
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 72° Precipitation Wind slight

Comments

Expendable Items Used

Qty	Item	LEA Number
	Decontamination Supplies	081
	Drum, Open Top 55 Gallon	086
1	Miscellaneous Health & Safety Items	060
	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Balance, Ohaus	031
1	Balance, Pocket Pro	061
	Drill, Core Saw, w/ Attachment	009
	Drill, Hilti, incl. Concrete Anchors	010
1	Hand Auger, w/ attachments	013
	Locator, Metrotech Pipe	053
1	Miscellaneous Small Tools & Equipment	152
1	VOC Analyzer, Photovac 2020 (PID)	012

Field Personnel Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page 2 of 4
Project	Vapor Intrusion-GW Investigation	Date 6/23/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Description of Site Activities

0800 on site.
Cal'd equipment.
Drum inventory.
Call to Joe T. to verify drum id's. (0900)
55 ~~closed~~ top drums on site.
~~5 top~~ open
5 closed top drums on site.
→ OSL-CT-020, 021, 022 are Cap Effectiveness.
023, 024 are from well development on 6/2/11.
Of the ~~close~~ open top drums, 1 is from Highland Hills. (055)
13 are from VIMP. (042-054)
41 are from GA Boundary Study. (001-041)
4 random drums from VIMP are chosen and composited for TCLP RCRA 8.
Drum w/ highest PID sampled for Total + TCLP VOCs.
4 drums chosen at random were 049 (0.0)
048 (0.2)
047 (1.6) → VOCs
053 (0.8)
} composite metals.
Made sure all drums labeled correctly and tightened.
offsite. (1130)

Field Personnel Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**61SL902.003**	Page 3 of 4
Project	Vapor Intrusion-GW Investigation	Date 6/23/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

pH Meter/Serial #

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration							
Calibration Check							
Calibration Check							

Turbidity Meter/Serial #

	Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration					
Calibration Check					
Calibration Check					

PID Meter/Serial # 3815

	Time	Standard	Meter Reading	Zero with
Initial Calibration	0800	100	100	Background
Calibration Check				
Calibration Check				

Balance/Serial # LPC

	Time	Standard	Balance
Initial Calibration	0800	100	100
Calibration Check			
Calibration Check			

Comments

Field Personnel Luke Chmielecki

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.	**61SL902.003**	Page 4 of 4
Project	Vapor Intrusion-GW Investigation	Date 6/23/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1230790	OSL-WC-005 see supplemental	0945	DRS ~~WE~~	NA	1.6	VOCs from highest PID. Metals composite.	NA

bc

Field Personnel Luke Chmielecki

Signature

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Treask.	Field Sampler: LPC	TAT Required (business days): 7 Day	Lab PM/Contact: Jill Dohancik	COC Number: 19859
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page 1 of 1
Address: 100 Northwest Dr	E-Mail:	Deliverable Type (Report/EDD):		Carrier Tracking Notes:
City, State, Zip: Plainville, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	
Phone: 860-747-6181	WO #:		Cooler Temperatures (Lab Use Only):	
Email:	Project #: 61SL902.003	State Regulatory QC Criteria Requirements: CT RCPs + RSRs	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL, CT	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	5035 Other	Total VOCs	TCLP VOCs	TCLP RCRA8							Comments
	1230790	6/23/11	0945	S	No	2						3	X	X	X							

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/23/11	LEA	[signature]	6/23/11 1424	TAct
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**61SL902.003**	Page 1 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Arrived at Site 6:30 Departed from Site 17:30 Vehicle ST-12

Odometer (Start) 6m Return

Site Activities

- [ ] Soil Sampling
- [x] Groundwater Sampling
- [ ] Surface Water Sampling
- [ ] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information

Last Sample Number Used	N/A
Last Location ID Used	↓
Current Location (if not complete)	
Sampling for	VOCs
Laboratories used	TestAmerica
Paperwork & Equipment left at/in	Office
Site Contact	Corey Rousseau
Contractors on Site	Nobis
	N/A
Time and place to meet contractors	↓

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
X			Sample labels complete
X			Sample/cooler seals OK
X			All samples obtained
X			Chains of custody
X			All forms/logs complete
X			Site condition OK
X			Site H&S Plan on site
X			Instruments calibrated

Checked By

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid	N	A
Groundwater	66 liters	OSL-GF001
Decon Fluid		
PPE	N	A
Other		

Weather Conditions

Temperature 83 Precipitation 0 Wind 0-5

Comments Humid

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
1	Drum, Closed Top 55 Gallon	086
1	Filter, In Line	024
2	Miscellaneous Health & Safety Items	060
380 ft	~~Tubing, 1/2", NOS~~ 1/4	007
	Tubing, 3/8", NOS	008
4	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
2	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
	Pump, Peristaltic (spec. Master or Isco)	040
4	Pump, Submersible Bladder	201
	Pump, Watera	038
2	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
4	Water Level Indicator	028
2	Water Quality Meter w/Flow Cell	070
3	Compressor	
2	Controllers	

Field Personnel Luke Chmielecki, Sam Rooney, Jeremy Corcoran, ~~Nate Emmons~~

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page 2 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Description of Site Activities

06:30 Jeremy Corcoran and Sam Rooney meet at yard to calibrate and load equipment. Luke Chmielecki is at the office picking up Bottles and coolers.
07:00 Luke is at the yard for kickoff meeting and to make sure Sam is up to speed on Bladder pumps.
7:45 Set up Drum
08:00 Corey Rousseau From Nobis Engineering is onsite for oversite.
08:30 Begin Low Flow Jeremy setup on CB-mw-02 sam is on CB-mw-03. Luke is collectin vapor point samples and water levels
8:45 Jeremy having issues with air compressor
9:00 Jeremy Resume Low Flow
10:40 CB-mw-02 and CB-mw-03 complete decon equipment
10:50 Sam setup on CB-mw-01 Jeremy head to Chuck and Eddy's to have concrete block moved that's Blocking Access to wells. Spoke with Charles Archangelo he forwarded me to Steve who got the ball moving to move blocks
11:25 Blocks moved Jeremy Setup on CB-mw-04
11:59 Spoke to Joe about Turbidity and Equipment.
13:30 CB-mw-04 complete Decon Pumps
13:35 Setup on CB-mw-05. Sam Handling wells in residential neighborhood.
15:21 CB-mw-05 complete. Sam said Corey (Nobis) left for the day
15:34 check in with Chuck and Eddys. Somone will be there til 5:30.
15:55 Test America Onsite to pickup samples
16:05 Test America offsite
16:11 Setup CB-mw-06
17:17 CB-mw-06 complete. Cleanup, Dump waste, Decon
17:35 Check on Sam. Sams Turbidity still high he will continue to let turbidity Fall.
17:50 Jeremy Corcoran offsite Sam continue with CB-mw-08. Sam will lock up drum area when he leaves site.

Field Personnel	Luke Chmielecki	Jeremy Corcoran	*Signature*
	Sam Rooney	~~Nate Emmons~~	

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

Date 9/13/11

LEA Comm. No.	**61SL902.003**
Project	Cap-Effectiveness GW Monitoring
Location	Old Southington Landfill, Southington, CT
Client	Murtha, Cullina, Richter & Pinney

pH Meter/Serial # N/A

		Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	03F032Q	6:40	4.01	6.79	10.01	1000	109.1	100%
Calibration Check	10F016Q	6:40	4.00	7.00	10.01	1000	~~[illegible]~~ 109.3	100%
Calibration Check		N/A	N/A					

Turbidity Meter/Serial #

		Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	3522	6:54	0.37	22.1	106	792
Calibration Check	2100Q01	6:54	0.22	20.3	101	799
Calibration Check						

PID Meter/Serial # 3815

	Time	Standard	Meter Reading	Zero with
Initial Calibration	6:49	100ppm	100ppm	Ambient Air
Calibration Check	N/A			
Calibration Check				

~~Balance/Serial #~~

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments Evening check showed meters within Acceptable limits.

Field Personnel			
	Luke Chmielecki	Jeremy Corcoran	***Signature***
	Sam Rooney	~~Nate Emmons~~	

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. 61SL902.003
Project: Vapor Intrusion-GW Investigation
Location: Old Southington Landfill, Southington, CT
Client: OSL Site Group

Page 4 of 12
Date 9/13/11

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1239909	Trip Blank	8:30	BKT	N/A	N/A	Trip Blank	OSL-CT-001
1239908	Equipment Blank	15:00	BKE	N/A	N/A	Equipment Blank	OSL-CT-001
1239910	Duplicate	13:26	Dup.	N/A	N/A	Duplicate Sample	OSL-CT-001

Field Personnel: Luke Chmielecki, Sam Rooney, Jeremy Corcoran, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 5 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/11
Location	Old Southington Landfill, Southington, CT	Sample Time 13:45
Client	OSL Site Group	

Monitoring Well Number CB-MV-01 Sample Number(s) 1239900 ~~1239900UF~~ 1239906

Initial Field Data and Measurements

Depth of Well 15.07 Reference Used TOR
Depth to Water 4.48 PID/FID Reading NM
Height of Column 10.59 Interface Yes / No If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference N
Comments pump in take set at 9.77

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	N/A	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1110	4.48	20/10	100	0	-Start Purging						
1120	6.09	20/10	100	1.0	16.3	272.5	5.97	-17.6	0.32	1000+	
1130	6.82	20/10	100	2.0	16.0	274.0	5.86	-17.1	0.14	1000+	
1140	7.11	20/10	100	3.0	15.8	277.7	5.84	-20.1	0.06	1000+	
1150	7.93	20/10	100	4.0	15.8	276.4	5.83	-20.3	0.13	1000+	
1200	8.71	20/10	100	5.0	15.8	276.1	5.81	-21.1	0.50	1000+	
1210	8.79	20/10	100	6.0	15.7	275.9	5.81	-21.3	0.39	1000+	
1220	9.01	20/10	100	7.0	15.7	276.4	5.82	-18.3	1.21	1000+	
1230	9.74	20/10	100	8.0	15.6	276.7	5.82	-20.6	2.34	1000+	
1240	9.74	-well went DRY									
1345	—	sampled well									

SR

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder Pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, liquinox, nitric, methanol
Waste Container ID OSL-CT-001

Additional Comments 1239906 was filtered per JOCT request.

Field Personnel Luke Chmielecki, ~~Sam Rooney~~, Jeremy Corcoran, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 6 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/11
Location	Old Southington Landfill, Southington, CT	Sample Time 18:26
Client	OSL Site Group	

Monitoring Well Number GPM W-08 Sample Number(s) 1239903

Initial Field Data and Measurements

Depth of Well 34.94 Reference Used TOR
Depth to Water 28.28 PID/FID Reading NM
Height of Column 6.66 Interface Yes / (No) If yes, Depth NA Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference NM
Comments Pump intake set at 31.61 ft

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	N/A	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1640	28.28	20/10	100	0	—	Start Purging					
1650	28.30	20/10	100	1.0	18.2	442.6	6.77	71.7	7.92	202	
1700	28.31	20/10	100	2.0	19.5	442.1	6.65	73.0	7.89	256	
1710	28.34	20/10	100	3.0	18.8	438.0	6.62	76.4	7.74	188	
1720	28.36	20/10	100	4.0	18.0	434.1	6.60	81.6	7.63	128	
1730	28.39	20/10	100	5.0	17.6	432.4	6.60	83.5	7.68	112	
1740	28.42	20/10	100	6.0	17.3	431.7	6.60	85.7	7.67	96.2	
1750	28.42	20/10	100	7.0	17.3	428.9	6.61	88.2	8.01	68.2	
1800	28.45	20/10	100	8.0	17.2	428.0	6.62	89.1	7.89	23.1	
1810	28.46	20/10	100	9.0	17.2	427.7	6.62	89.0	7.87	17.9	
1815	28.46	20/10	100	9.5	17.1	426.9	6.62	89.8	7.86	9.2	
1820	28.46	20/10	100	10.0	17.1	426.3	6.63	90.3	7.82	5.2	
1825	28.47	20/10	100	10.5	17.0	426.1	6.63	91.1	7.79	4.3	
1826		Sampling									
						(SR)					

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Bladder Pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI / Liquinox, methanol, nitric
Waste Container ID OSL-CT-001

Additional Comments

Field Personnel Luke Chmielecki, (Sam Rooney), Jeremy Corcoran, Nate Emmons

Signature S — [signature]

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 7 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/11
Location	Old Southington Landfill, Southington, CT	Sample Time 17:16
Client	OSL Site Group	

Monitoring Well Number CB-MW-06 Sample Number(s) 1239907 N/A

Initial Field Data and Measurements

Depth of Well 16.99 Reference Used TOR
Depth to Water 11.55 PID/FID Reading 0.2
Height of Column 5.44 Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2 Material PVC
Protector Road Box / (Stickup)
Ground to Reference NM
Comments Pump intake set at 14.27FT

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)	N/A	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
16:20	Began Purging at 100 ml/min										N/A
16:30	11.70	20/10	100	1.0	22.1	97.7	6.00	232.8	7.39	146	
16:40	11.70	20/10	100	2.0	20.6	96.2	5.98	243.4	7.30	130	
16:50	11.70	20/10	100	3.0	19.6	95.2	5.98	267.5	6.41	35.1	
17:00	11.70	20/10	100	4.0	19.6	96.2	5.99	279.1	6.41	16.0	
17:05	11.70	20/10	100	4.5	19.6	95.7	5.99	281.3	6.45	6.82	
17:10	11.70	20/10	100	5.0	19.5	95.1	5.99	282.5	6.29	5.12	
17:15	11.70	20/10	100	5.5	19.5	95.2	5.99	282.7	6.34	4.23	
17:16	collect sample										

N/A

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other (Bladder Pump)

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI/Liquinox/nitric/methanol
Waste Container ID OSL-CT-001

Additional Comments Sampled for VOCs

Field Personnel Luke Chmielecki (Jeremy Corcoran) *Signature*
Sam Rooney ~~Nate Emmons~~

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 8 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/11
Location	Old Southington Landfill, Southington, CT	Sample Time ___:___
Client	OSL Site Group	

Monitoring Well Number CB-MW-05 Sample Number(s) 1239905 N/A

Initial Field Data and Measurements

Depth of Well 16.98 Reference Used TOR
Depth to Water 8.84 PID/FID Reading 0.2
Height of Column 8.14 Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2 Material PVC
Protector (Road Box) / Stickup
Ground to Reference NM
Comments Pump intake set at 12.91 FT

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)	N/A	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
13:50	Began Purging at 100 ml/min										N/A
14:00	8.85	20/10	100	1.0	19.9	686	6.85	-24.0	1.79	1000+	
14:10	8.85	20/10	100	2.0	20.0	685	6.87	-42.9	3.69	425	
14:20	8.85	20/10	100	3.0	20.9	695	7.03	-55.7	1.26	271	
14:30	8.85	20/10	100	4.0	20.2	724	7.12	-59.3	1.85	212	
14:40	8.85	20/10	100	5.0	20.0	729	7.12	-60.1	0.99	84.9	
14:50	8.85	20/10	100	6.0	20.1	733	7.30	-65.4	1.81	22.1	
15:00	8.85	20/10	100	7.0	19.7	735	7.29	149.2	2.04	9.97	
15:05	8.85	20/10	100	7.5	19.7	742	7.16	-52.7	2.27	8.12	
15:10	8.85	20/10	100	8.0	19.7	751	7.16	-49.3	2.34	7.01	
15:20	8.85	20/10	100	8.5	19.7	755	7.15	-47.1	2.37	5.42	
15:21	Collect Sample										
				N/A							

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other (Bladder Pump)

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI/Liquinox/nitric/methanol
Waste Container ID OSL-CT-001

Additional Comments Sampled for VOCs. Note During sampling there were vehicles running in the area.

Field Personnel Luke Chmielecki, Sam Rooney, (Jeremy Corcoran), ~~Nate Emmons~~

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 9 of 12
Project	Vapor Intrusion-GW Investigation	Date 6/13/11
Location	Old Southington Landfill, Southington, CT	Sample Time 13:26
Client	OSL Site Group	

Monitoring Well Number CB-MW-04 Sample Number(s) 1239901 1239910

Initial Field Data and Measurements

Depth of Well 16.95 Reference Used TOR
Depth to Water 7.45 PID/FID Reading 0.1
Height of Column ~~12~~ 9.50 Interface Yes (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2 Material PVC
Protector Road Box (Stickup)
Ground to Reference NM
Comments Pump intake set at 12.20 FT.

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	N/A	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
11:40	Began Purging at 100 ml/min										N/A
11:50	7.50	20/10	100	1.0	18.9	722	6.85	1.4	0.88	645	
12:00	7.50	20/10	100	2.0	19.1	723	6.90	1.3	0.44	193	
12:10	7.50	20/10	100	3.0	18.4	718	6.91	-2.9	0.37	150	
12:20	7.50	20/10	100	4.0	18.3	707	6.86	-4.1	0.29	103	
12:30	7.50	20/10	100	5.0	18.1	705	6.88	-4.9	0.23	61.9	
12:40	7.50	20/10	100	6.0	18.5	704	6.88	-5.9	0.22	33.6	
12:50	7.50	20/10	100	7.0	19.0	699	6.97	-6.7	0.13	16.6	
13:00	7.50	20/10	100	8.0	20.2	694	6.98	-6.5	0.20	8.12	
13:10	7.50	20/10	100	9.0	20.2	694	6.94	-6.1	0.22	7.41	
13:15	7.50	20/10	100	~~10.0~~ 9.5	20.2	695	6.94	-6.4	0.24	6.97	
13:20	7.50	20/10	100	~~11.0~~ 10.0	20.3	701	6.94	-6.4	0.25	5.61	
13:25	7.50	20/10	100	10.5	20.4	702	6.94	-6.3	0.22	4.62	
13:26	well stable collect sample										

N/A

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder Pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI/nitric/Liquinox/methanol
Waste Container ID OSL-CC-001

Additional Comments Sampled for VOCs. Duplicate sample taken

Field Personnel Luke Chmielecki (Jeremy Corcoran) *Signature*
Sam Rooney ~~Nate Emmons~~

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 10 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/11
Location	Old Southington Landfill, Southington, CT	Sample Time 10:21
Client	OSL Site Group	

Monitoring Well Number CB-MW-02 Sample Number(s) 1239898 N/A JK

Initial Field Data and Measurements

Depth of Well 16.95 Reference Used TOR
Depth to Water 8.62 PID/FID Reading NM
Height of Column 8.33 Interface Yes (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2 Material PVC
Protector (Road Box) / Stickup
Ground to Reference NM
Comments Pump intake set at 12.785 Ft.
Pump set at 2 gpm 10 discharge 20 to Fill

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	N/A	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
8:30	Began Purging		at 100 ml/min								N/A
8:40	8.78	N/A	100	1.0	18.4	403.4	7.54	180.4	4.25	34.5	
8:45 stop purging air compressor broken											
9:00	Begin purging again										
9:10	8.65		100	2.0	22.1	410.4	7.47	167.3	2.80	90.1	
9:20	8.65		100	3.0	19.9	410.6	7.45	159.2	2.12	77.6	
9:30	8.67		100	4.0	20.4	408.9	7.44	152.3	2.17	72.4	
9:40	8.67		100	5.0	20.4	412.2	7.44	152.3	2.18	60.8	
9:50	8.67		100	6.0	20.4	410.7	7.46	148.2	2.44	44.2	
10:00	8.67		100	7.0	20.4	405.7	7.47	147.1	2.37	36.5	
10:05	8.67		100	~~8.0~~ 7.5	20.3	410.6	7.47	145.9	3.07	26.0	
10:10	8.67		100	~~9.0~~ 8.0	20.3	409.1	7.47	147.8	3.12	9.35	
10:15	8.67		100	~~10.0~~ 8.5	20.3	407.9	7.47	145.9	3.09	5.27	
10:20	8.67		100	~~11.0~~ 9.0	20.3	408.2	7.47	145.2	3.11	4.42	
10:21	well stable sample										

N/A JK

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other (Bladder Pump)

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI / Liquinox / Nitric / methanol rinse
Waste Container ID OSL-CP-001

Additional Comments Sampled for VOCs

Field Personnel Luke Chmielecki, Jeremy Corcoran, Sam Rooney, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 11 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/11
Location	Old Southington Landfill, Southington, CT	Sample Time 10:21
Client	OSL Site Group	

Monitoring Well Number CB-MW-03 Sample Number(s) 1239899

Initial Field Data and Measurements

Depth of Well 15.89 Reference Used TOR
Depth to Water 9.97 PID/FID Reading NM
Height of Column 5.92 Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter ~~12.93~~ SR 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference ~~Pump~~ SR NM
Comments Pump intake set at 12.93ft

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	N/A	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	3% Temp (C)	3% Spec. Cond. (uS/cm)	0.1 pH (SU)	±10 ORP (Eh)	10% DO (mg/L)	10% Turbidity (NTU)	Comment
9:05	9.97	~~70/80~~ SR	100	0	— Start purging				—	—	N/A
9:15	10.31	80/80	100	1.0	16.1	382.0	7.50	44.8	2.41	39.1	
9:25	10.39	80/80	100	2.0	16.1	368.1	7.16	52.5	2.73	25.0	
9:35	10.39	80/80	100	3.0	16.1	361.0	7.01	58.6	2.92	15.9	
9:45	10.39	80/80	100	4.0	16.3	350.9	6.93	62.9	3.20	13.3	
9:55	10.39	20/80	100	5.0	16.3	343.3	6.89	67.0	3.52	9.41	
10:05	10.39	20/10	100	6.0	16.4	338.4	6.88	68.9	3.68	6.74	
10:10	10.39	20/10	100	6.5	16.5	335.7	6.86	70.0	3.76	5.02	
10:15	10.39	20/10	100	7.0	16.6	333.7	6.85	70.5	3.78	4.81	
10:20	10.39	20/10	100	7.5	16.6	333.2	6.85	71.2	4.00	4.46	
10:21	—	Started	sampling								

SR

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Bladder Pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI, Liquinox, nitric, methanol
Waste Container ID OSL-CT-001

Additional Comments

Field Personnel Luke ~~Chmielecki~~ Jeremy Corcoran
(Sam Rooney) Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 12 of 12
Project	Vapor Intrusion-GW Investigation	Date 9/13/14
Location	Old Southington Landfill, Southington, CT	Sample Time 15:46
Client	OSL Site Group	

Monitoring Well Number CB-MW-07 Sample Number(s) 1239902

Initial Field Data and Measurements

Depth of Well 33.05 Reference Used TOR
Depth to Water 25.02 PID/FID Reading NM
Height of Column 8.03 Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments pump intake set at 29.035 ft

General Condition	OK	Bad
Casing Secure	x	
Collar Intact	x	
Cover Locked	N/A	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1240	25.02	20/10	100	0	-Start		purging				
1450	25.05	20/10	100	1.0	16.6	658	7.01	25.6	8.99	123	
1500	25.09	20/10	100	2.0	16.6	690	7.01	51.5	8.32	63.8	
1510	25.12	20/10	100	3.0	16.1	696	7.10	58.7	8.88	35.1	
1520	25.20	20/10	100	4.0	15.9	691	7.13	61.0	8.66	17.8	
1530	25.23	20/10	100	5.0	15.9	695	7.14	62.2	8.69	4.2	
1535	25.26	20/10	100	5.5	15.8	696	7.14	63.0	8.72	4.0	
1540	25.26	20/10	100	6.0	15.8	694	7.15	63.6	8.74	3.5	
1545	25.27	20/10	100	6.5	15.9	693	7.16	63.9	8.77	3.3	
1546			Sampled	well							

SR

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder Pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI, Liquinox, methanol, Nitric
Waste Container ID OSL-CI-001

Additional Comments

Field Personnel Luke Chmielecki, (Sam Rooney), Jeremy Corcoran, Nate Emmons

Signature

MW	DTW	DTB
G302A	15.18	
G302B	14.35	
G302C	15.24	
G303A	18.66	
G303B	18.88	
G303C	19.00	
G304A	29.30	
G304B	28.90	
G304C	29.13	
G308A	12.85	
G308B	13.38	
G308C	13.35	
G309A	7.71	
G309B	7.70	
G309C	7.55	
G310S	15.87	
G310A	16.05	
G310B	15.75	
G310C	15.67	
G311A	6.65	
G311B	6.97	
G311C	6.53	
G312A	36.93	
G312B	36.77	
G312C	38.09	
G313A	9.96	
G313C	9.86	
G314A	3.51	
G314B	4.05	
G314C	3.87	
G315A	33.75	
G315B	34.05	
G315C	33.58	
G317A	29.69	
G317B	29.57	
G317C	30.26	

MW	DTW	DTB
G318A	13.82	
G318B	15.61	
G318C	16.55	
GZ-1	56.41	
GZ-3	6.49	
GZ-5S	19.32	
GZ-5M	19.05	
GZ-5D	18.68	
GZ-12M	12.87	
GZ-12D	13.29	
GZ-13S	34.43	
GZ-13M	35.11	
GZ-13D	36.80	
GZ-14S	32.00	
GZ-14M	32.04	
GZ-14D	32.80	
GZ-17M	11.55	
GZ-17D	11.62	
SDW-1	5.70	
SDW-2	12.27	
SDW-3	5.86	
SDW-4	8.24	
SDW-5	4.71	
SDW-6	12.39	
SDW-8	15.82	
SDW-9A	4.24	
SDW-9B	5.51	
SDW-9C	5.47	
SDW-10A	7.31	
SDW-10B	7.98	
PZ-1	6.60	
PZ-2	8.32	
PZ-3	8.65	
SG-1	1'7.5"	
SG-2	2.63 or	4.42
SG-3	11"	

MW	DTW	DTB
GAB-PZ-01S	24.94	
GAB-PZ-01M	25.61	
GAB-PZ-01D	28.17	
GAB-PZ-02S	42.31	
GAB-PZ-02M	42.71	
GAB-PZ-02D	46.10	
GAB-PZ-03S	32.82	
GAB-PZ-03M	33.35	
GAB-PZ-03D	33.50	

MW	DTW	DTB
CB-MW-01	4.48	
CB-MW-02	8.62	
CB-MW-03	9.97	
CB-MW-04	7.45	
CB-MW-05	8.77	
CB-MW-06	11.45	
CB-MW-07	25.03	
CB-MW-08	28.30	

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trask	Field Sampler: Jeremy C. / Sam R.	TAT Required (business days): Standards	Lab PM/Contact: J. B	COC Number: 21116
Company: LEA	Mobile/Field Number: 860-250-5910		Lab Job Number (Lab Use Only):	Page ___ of ___
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville CT. 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860-747-6181	WO #:			
Email:	Project #: 6154902.003	State Regulatory QC Criteria Requirements:	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSC Southington CT	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOCs 8260B	Comments
	1239898	9/13/11	10:21	Aq	NO				3				X	
	1239901	9/13/11	1326	Aq	NO				3				X	
	1239910	9/13/11	1326	Aq	NO				3				X	
	1239909	9/13/11	8:30	Aq	NO				3				X	
	1239908	9/13/11	15:00	Aq	NO				3				X	
	1239906	9/13/11	15:05	Aq	NO				3				X	Field Filtered
	1239900	9/13/11	1335	Aq	NO				3				X	
	1239899	9/13/11	10:21	Aq	NO				3				X	
	1239905	9/13/11	15:21	Aq	NO				3				X	
	1239902	9/13/11	1546	Aq	NO				3				X	

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible]	9/13/11 1630	LEA	[illegible]	9/13/11 1601	TAct
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments: CT RCP Report GA Residential

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	~~615L901.003~~ 615L902.003	Page 1 of 4	
Project	~~Cap-Effectiveness GW Monitoring~~ Vapor Intrusion GW investigation	Date 9/14/11	
Location	Old Southington Landfill, Southington, CT		
Client	Murtha, Cullina, Richter & Pinney		
Arrived at Site	7:00	Departed from Site	
Vehicle	Personal	Odometer (Start)	Return

Site Activities

	Soil Sampling		Geoprobe Work
✓	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
✓	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	1239904
Last Location ID Used	~~Ø~~
Current Location (if not complete)	~~Ø~~
Sampling for	VOCs
Laboratories used	Test Am.
Paperwork & Equipment left at/in	office
Site Contact	~~Ø~~
Contractors on Site	Nobis, LEA

Non-productive Time

✓	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Time and place to meet contractors

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
✓			Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Checked By

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	2 gal	OSL-CT-001
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 80s Precipitation ~~Ø~~ Wind ~~Ø~~

Comments

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
X	Miscellaneous Health & Safety Items	060
	Tubing, 1/2", NOS	007
	Tubing, 3/8", NOS	008
	Water, Distilled	025
1	Vapor Well Purging Pump	?

Equipment Used

Qty	Item	LEA Number
	Generator 3500 Watt	153
	Meter, Conductivity	022
	Meter, pH/Temp	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
1	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
	Pump, Watera	038
1	Turbidimeter	023
1	VOC Analyzer, Photovac 2020 (PID)	012
1	Water Level Indicator	028
1	Water Quality Meter w/Flow Cell	070

Field Personnel: Luke Chmielecki, Sam Rooney, Jeremy Corcoran, Nate Emmons

Signature Nate Emmons

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL903.003**	Page 2 of 4
Project	~~Cap-Effectiveness GW Monitoring~~	Date 9/14/11
Location	Old Southington Landfill, Southington, CT	
Client	Murtha, Cullina, Richter & Pinney	

Description of Site Activities

7:00 Onsite
Began Calibrations of WSI at Yard. Luke C. Instructed me on use of Pump for Purging Vapor wells. Collected equipment ect...
8:00 Dan Kirk + Dave Clymer onsite with Dave F. + Joe T.
8:15 Tailgate Safety Meeting
8:40 Moved to Chuck + Eddies for Vapor Sampling
Calibrated PID, set up Poly + Cones around well.
9:10 Started Purging CE-SV-02
9:13 PID Readings 1.0 ppm CE-SV-02 Can # 3081 Sample ID 1238364
9:17 0.9 ppm Reg # 3168
9:21 0.9 ppm 9:55 Start -30 psI
9:25 0.9 ppm END

9:33 Start Purging CE-SV-01 CE-SV-01 Can # 4469 Reg # 3946
9:34 PID Readings 1.4 ppm 10:28 Start -30+ psI
9:38 1.0 ppm Sample ID - 1238365 END
9:43 1.0 ppm
9:48 Stop Purging, PID Began Beeping with (PUMP) Alarm

10:30 Moved to yard to get equipment, then Began moving equipment to SDW-9A
11:00 Began Sampling well.
12:30 Well Sampled - Began Moving equipment to truck
13:15 Dropped off equipment at Yard, Dumped waste,
13:30 Checked on Summas - everything Looked good.
Began Sampling with J.C + S.R.
15:45 Completed Sampling
16:00 Completed Sampling of CE-SV-02
16:23 Completed Sampling of CE-SV-01
16:27 Relinquished Samples
16:30 off site

Field Personnel	Luke Chmielecki	Jeremy Corcoran	***Signature***
	Sam Rooney	Nate Emmons	Nate Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 3 of 4
Project	Vapor Intrusion-GW Investigation	Date 9/14/11
Location	Old Southington Landfill, Southington, CT	Sample Time 12:20
Client	OSL Site Group	

Monitoring Well Number SDW-9A Sample Number(s) 1239904

Initial Field Data and Measurements

Depth of Well 13.67 Reference Used
Depth to Water 4.24 PID/FID Reading 0.0
Height of Column 9.43 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference 26"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
11:03	4.24	300	100	0							Purging
11:20	4.32			2	17.7	241.7	4.79	67.1	0.46	14.0	
11:30	4.32		150	3	18.0	242.7	4.76	62.0	0.34	11.8	
11:40	4.32			4.5	18.0	246.8	4.76	60.1	0.31	10.6	
11:50	4.32			6.0	17.8	249.9	4.76	59.1	0.28	9.12	
12:00	4.32		150	7.5	18.1	251.8	4.74	60.5	0.24	8.63	
12:10	4.32			9.0	18.1	254.7	4.77	58.0	0.27	7.21	
12:15	4.32			9.75	18.1	252.8	4.77	58.1	0.25	6.45	
12:20	4.32	300	150	10.50	18.0	255.1	4.77	57.6	0.28	5.19	
Sample											

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? Meth+DI wipe on WLI
Waste Container ID OSL-CT-001

Additional Comments

Field Personnel			Signature
	Luke Chmielecki	Jeremy Corcoran	Nathan Emmons
	Sam Rooney	Nate Emmons	

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No. **61SL902.003**
Project: Vapor Intrusion-GW Investigation
Location: Old Southington Landfill, Southington, CT
Client: OSL Site Group

Page 4 of 4
Date 9/14/11

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1238364	CE-SV-02	9:55	Vapor	~~NE~~		Vapor Sample	
1238365	CE-SV-01	10:28	Vapor	~~NE~~		Vapor Sample	

NE

Field Personnel: Luke Chmielecki, Sam Rooney, Jeremy Corcoran, Nate Emmons

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page ____ of ____
Project	Vapor Intrusion-GW Investigation	Date 9 / 13 / 11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Description of Site Activities

0834 waiting for Radio Station personnel. (access)
0910 radio station open.
1238362 (North end of building) 1238363 (South end of building)
0915 began 15 minute purge, monitoring with PID. 370 ml/min.

Northern probe: 0918 = 0.0 ppm
0921 = 0.0 ppm
0924 = 0.0 ppm
0927 = 0.3 ppm
0930 = 0.3 ppm

Allowing 30 min. to equilibrate.
Northern probe (1238362)
Can # 5086 Flow Controller # 5198
start time = 1000
end time = 1450
vacuum start = -30
vacuum end = -10

Southern probe: 0934 = 0.0 ppm
0937 = 0.0 ppm
0940 = 0.0 ppm
0943 = 0.0 ppm
0946 = 0.0 ppm

Allowing 30 min. to equilibrate. (only 20 min due to time)
Southern probe (1238363)
Can # 4467 Flow Controller # 3737
Start time = 1006
end time = 1451
vacuum start = -30
vacuum end = -10

Field Personnel	Luke Chmielecki	Jeremy Corcoran	***Signature***
	Sam Rooney	~~Nate Emmons~~	

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

16510

Client Contact Information	Project Manager: David Fiereck	Samples Collected By: Luke Chmieleck:	1 of 1 COCs
Company: LEA	Phone: 860-747-6181		
Address: 100 Northwest Dr	Email:		
City/State/Zip Plainville, CT 06062			
Phone: 860-747-6181	Site Contact: Joe Trzask:		
FAX:	TA Contact: Jill Duhancik		
Project Name: 615L902.003	**Analysis Turnaround Time**		
Site: Old Southington Landfill	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1238362 (1)	9-13-11	1000	1450	-30	-10	5198	5086	X											
1238363 (2)	9-13-11	1006	1451	-30	-10	3737	4467	X											
1238364 (3)	9-14-11	9:55	16:01	-30	-8	3168	3081	X											
1238365 (4)	9-14-11	10:28	16:22	-30	-9	3946	4469	X											

Temperature (Fahrenheit)			
	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)			
	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by:	Date/Time: 9-13-11 1630	Received by:
Relinquished by:	Date/Time: 9/14/11 1813	Received by: 9-14-11 1813

Lab Use Only Shipper Name: Opened by: Condition:

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Fr[illegible]	Field Sampler:	TAT Required (business days): Standard	Lab PM/Contact: [illegible]	COC Number: 20828
Company: CGA	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page ___ of ___
Address: [illegible] Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Shelton, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860-343-6181	WO #:			
Email:	Project #: 61SC701.003	State Regulatory QC Criteria Requirements:	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State):	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOC 8260									Comments
	~~[illegible]~~ 1237904	9/14/11	1230	Hg	NO				3				X									

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[illegible]	9/14/11 1630	CGA	[illegible]	9/14/11 1630	DACT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments: CT RCP Report - GA Reporting!

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**61SL902.003**		Page 1 of 14
Project	Vapor Intrusion-GW Investigation		Date 12/12/11
Location	Old Southington Landfill, Southington, CT		
Client	OSL Site Group		

Arrived at Site 07:30 Departed from Site 16:30 Vehicle ST-7
Odometer (Start) 5n Return

Site Activities

	Soil Sampling		Geoprobe Work
X	Groundwater Sampling		Concrete Coring
	Surface Water Sampling		Construction
	Vapor/Air Sampling		Waste Management
	Concrete Sampling		
	Other Sampling		Inspection
	Other Sampling		Site Walk Over
			Surveying
	Well Development		Other (Describe)

Current Project Information

Last Sample Number Used	N/A
Last Location ID Used	↓
Current Location (if not complete)	↓
Sampling for	VOCs 8260B
Laboratories used	Test America
Paperwork & Equipment left at/in	Office
Site Contact	N/A
Contractors on Site	↓
Time and place to meet contractors	↓

Non-productive Time

X	None		Weather
	Equipment Breakdown		Missing Equipment
	Late		Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
X			Sample labels complete
X			Sample/cooler seals OK
X			All samples obtained
X			Chains of custody
X			All forms/logs complete
X			Site condition OK
X			Site H&S Plan on site
X			Instruments calibrated

Checked By ST

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid	N	A
Groundwater	37 Gal	
Decon Fluid	N	A
PPE		
Other		

Weather Conditions

Temperature 38 Precipitation 0 Wind 0-5
Comments Chilly

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
3	Decontamination Supplies	081
1	Drum, Closed Top 55 Gallon	086
3	Filter, In Line	024
	Gas Probes, 5' Stainless Steel	110
12	Miscellaneous Health & Safety Items	060
	Tedlar Bags	079
	Tubing, 1/2", NOS	007
	Tubing, 3/8", NOS	008
2	Water, Distilled	025
350'	1/4" ~~350FT~~ Tubing	
10FT	soft tubing	
3	Gas Tank setups	

Equipment Used

Qty	Item	LEA Number
	Air Sampler-MSA Escort Elf	047
	Drill, Hilti, incl. Concrete Anchors	010
	Gauge, Magnehelic Vacuum	133
	Generator 3500 Watt	153
	Hand Auger, w/ attachments	013
	Helium Detector	091
3	~~Meter, Conductivity~~ Turbidity meter	022
4	~~Meter, pH/Temp~~ YSI WaterQual Meter w/ Flow through cell	021
12	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
1	Pump, Peristaltic (spec. Master or Isco)	040
	Pump, Submersible	201
4	~~Pump, Waterra~~ bladder pumps	038
	Soil Gas Sampler	078
	Soil Gas Survey Equipment	087
	Thermo-Anemometer	248

Field Personnel	Sam Rooney	Jeremy Corcoran	***Signature***
	Luke Chmielecki	N/A JC	

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page 2 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Description of Site Activities

07:00 Jeremy Corcoran, Sam Rooney and Luke Chmielecki meet at office to get bottles and paper work. Joe Trzaski was called because no bottles were found we were able to scrounge enough to get started.

07:30 LEA Yard Jeremy, Sam, Luke Call and load trucks Jeremy call chuck and Eddy's regarding Access to wells behind Junk yard No answer left message.

8:30 Corey from Nobis onsite for over site Sam setting up on Radio station wells. Luke working on soil vapor points. Jeremy and corey go to chuck and Eddys to talk to Jay Jay. They said they will move the mafia blocks in 15-20 minutes.

9:02 still nobody to move mafia Blocks called Charles A. no answer again.

9:15 Fork truck here to move blocks Corey go see Sam and Luke

9:45 Jeremy Begin Low Flow on CB-MW-06

10:40 Luke called to say Joe Trzaski said to filter if still turbid after 2 hours.

15:30 Corey (Nobis) offsite

16:30 Samples released to Test America offsite to unload at yard.

Field Personnel	Sam Rooney Luke Chmielecki	Jeremy Corcoran N/A	***Signature***

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**61SL902.003**		Page 3 of 14
Project	Vapor Intrusion-GW Investigation		Date 12/12/11
Location	Old Southington Landfill, Southington, CT		
Client	OSL Site Group		

pH Meter/Serial #

	Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	7:30	4.00	7.00	10.00	1000	100	100%
Calibration Check	7:30	4.00	7.00	1000	1000	100	100%
Calibration Check	7:30	4.00	7.00	1000	1000	100	100%
	7:30	4.00	7:00	1000	1000	100	100%

Turbidity Meter/Serial #

		Time	0 NTU	20 NTU	100 NTU	800 NTU
Initial Calibration	2688	7:38		103 (10NTU)	N/A	N/A
Calibration Check	3192		0.29	21.7	101	804
Calibration Check	2017		0.34	20.3	103	802

PID Meter/Serial # 3296

	Time	Standard	Meter Reading	Zero with
Initial Calibration	7:40	100 Iso.	100	Ambient Air
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			N
Calibration Check			A
Calibration Check			

Comments

Field Personnel	Sam Rooney	Jeremy Corcoran	***Signature***
	Luke Chmielecki	N/A	

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.	**61SL902.003**	Page 4 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1246267	Equipment Blank	15:00	BKE	N/A	N/A	N/A	N/A
1246266	~~Duplicate~~ CB-MW-05	12:36	DUP	↓	↓	CB-MW-05	↓
1246269	Trip Blank	8:45	BKT	↓	↓	↓	↓

N

A

Field Personnel	Sam Rooney Luke Chmielecki	Jeremy Corcoran N/A	***Signature***

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
SOIL VAPOR SCREENING

LEA Comm. No. 61SL902.003
Project: Vapor Intrusion-GW Investigation
Location: Old Southington Landfill, Southington, CT
Client: OSL Site Group

Page 5 of 14
Date 12/12/11

	Sample ID	Location ID	Time Start	Depth (ft)	High Reading	Low Reading	Flow Rate	PID/FID Reading	Probe #/ Comments	Time End
Northern →	1246270	RS-SV-01	0925		-30	-5	6hr	0.3	4342 (can) 4190 (reg)	1500
Southern →	1246271	RS-SV-02	0925	40	-30	-5	6hr	0.2	4381 (can) 3963 (reg)	1500
	1246272	CE-SV-01	0830		-30	-9	6hr	0.6	2893 (can) 5177 (reg)	1420
	1246273	CE-SV-02	0830		-30	-9	6hr	0.9	5075 (can) 2616 (reg)	1420

40

Field Personnel: Sam Rooney, Luke Chmielecki, Jeremy Corcoran

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 6 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	Sample Time 14:42
Client	OSL Site Group	

Monitoring Well Number CB-MW-01 Sample Number(s) 1246260 ~~1246260f~~ 1246255 (FB)

Initial Field Data and Measurements

Depth of Well 15.06 Reference Used TOR
Depth to Water 4.59 PID/FID Reading
Height of Column 10.47 Interface Yes (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box (Stickup)
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1240	4.59	20/10	50	0				Start Purging			
1250	6.0	20/10	50	0.50	11.3	246.4	5.61	185.4	0.34	+1000	
1300	6.10	20/10	50	1.0	10.9	304.1	7.02	192.1	0.75	+1000	
1310	6.11	20/10	50	1.5	11.1	257.1	7.08	185.6	0.32	+1000	
1320	6.19	20/10	50	2.0	11.2	254.9	7.06	196.2	0.39	+1000	
1330	6.21	20/10	50	2.5	11.2	264.2	6.87	194.1	0.35	+1000	
1340	6.22	20/10	50	3.0	11.2	1005	6.32	156.3	0.36	+1000	
1350	6.23	20/10	50	3.5	11.2	1720	6.12	127.8	0.37	+1000	
1400	6.24	20/10	50	4.0	10.6	1772	6.14	133.4	0.59	+1000	
1410	6.25	20/10	50	4.5	11.5	1710	6.14	123.6	0.32	+1000	
1420	6.26	20/10	50	5.0	11.5	1715	6.16	116.1	0.37	+1000	
1430	6.28	20/10	50	5.5	11.4	1732	6.19	110.9	0.39	+1000	
1440	6.29	20/10	50	6.0	11.5	1726	6.23	106.3	0.44	+1000	
1442			Start	Sampling							

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Bladder

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI methanol
Waste Container ID

Additional Comments

Field Personnel (Sam Rooney) Jeremy Corcoran *Signature*
Luke Chmielecki

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 7 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	Sample Time 12:00
Client	OSL Site Group	

Monitoring Well Number SDW-9A Sample Number(s) 1246268

Initial Field Data and Measurements

Depth of Well 13.50 Reference Used TOR
Depth to Water 3.91 PID/FID Reading 0.0
Height of Column 9.59 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1115	3.91	300	150	0							Start
1125				1.5	9.74	150	5.33	-49.6	1.49	8.51	
1135				3	9.77	144	5.31	-59.2	1.44	3.69	
1145				4.5	9.68	146	5.32	-67.3	1.39	3.20	
1150				5.25	9.65	143	5.30	-74.2	1.37	2.97	
1155				6	9.65	144	5.30	-77.1	1.36	2.90	
1200	3.91	300	150	6.75	9.66	144	5.30	-75.2	1.37	2.88	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol wipe on WLI
Waste Container ID OSL-CT-003

Additional Comments

Field Personnel Sam Rooney, Luke Chmielecki, Jeremy Corcoran *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 8 of 14	
Project	Vapor Intrusion-GW Investigation	Date 12/12/11	
Location	Old Southington Landfill, Southington, CT	Sample Time 15:56	
Client	OSL Site Group		

Monitoring Well Number CB-MW-07 Sample Number(s) 1246261

Initial Field Data and Measurements

Depth of Well 33.27 Reference Used TOC
Depth to Water 24.68 PID/FID Reading
Height of Column 8.59 Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1510	24.68	20/10	50	0				Start Purging			
1520	24.70	20/10	50	0.5	14.1	1567	7.30	161.9	9.16	51	
1530	24.73	20/10	50	1.0	14.4	1559	7.38	189.2	9.11	25	
1540	24.77	20/10	50	1.5	14.4	1548	7.37	216.6	9.12	9.1	
1545	24.80	20/10	50	1.75	14.5	1553	7.45	220.1	9.07	5.3	
1550	24.82	20/10	50	2.0	14.5	1548	7.41	225.1	9.08	4.2	
1555	24.83	20/10	50	2.25	14.5	1551	7.45	222.3	9.06	3.6	
1556				Start sampling							

STP

Developement Method Peristaltic Pump / Bailer / Inertial Pump (Other) Bladder

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI Methanol
Waste Container ID

Additional Comments

Field Personnel (Sam Rooney) Jeremy Corcoran *Signature*
Luke Chmielecki

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 9 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	Sample Time 12 : 36
Client	OSL Site Group	

Monitoring Well Number CB-MW-05 Sample Number(s) 1246263 N/A
1246266

Initial Field Data and Measurements

Depth of Well 16.78 Reference Used TOR
Depth to Water 8.39 PID/FID Reading NM
Height of Column Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / (Stickup)
Ground to Reference NM
Comments N/A

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)	N/A	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
11:00	Began	Purging	at	100	ml/min						
11:10	8.40	20/10	100	1.0	11.9	629	6.80	130.7	2.23	159	
11:20	8.40	20/10	100	2.0	11.8	701	6.80	132.1	1.99	140	
11:30	8.40	20/10	100	3.0	11.8	717	6.79	135.7	1.76	127	
11:40	8.40	20/10	100	4.0	11.8	723	6.77	134.6	1.54	111	
11:50	8.40	20/10	100	5.0	11.8	732	6.75	132.5	1.08	64.1	
12:00	8.40	20/10	100	6.0	11.8	744	6.76	132.9	0.77	33.2	
12:10	8.40	20/10	100	7.0	11.8	759	6.75	133.4	0.88	19.7	
12:20	8.40	20/10	100	8.0	11.9	756	6.74	130.9	0.96	7.77	
12:25	8.40	20/10	100	8.5	11.9	757	6.74	130.2	0.70	5.24	
12:30	8.40	20/10	100	9.0	11.9	759	6.73	129.3	0.83	4.83	
12:35	8.40	20/10	100	9.5	11.9	761	6.73	129.1	0.87	4.67	
12:36	Well	Stable		Sample							
						N/A					

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder Pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI / Methanol Rinse
Waste Container ID

Additional Comments Sampled for VOCs. (Duplicate Taken)

Field Personnel Sam Rooney (Jeremy Corcoran) ***Signature***
Luke Chmielecki N/A

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 10 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	Sample Time 10:36
Client	OSL Site Group	

Monitoring Well Number CB-MW-06 Sample Number(s) 1246262 N/A

Initial Field Data and Measurements

Depth of Well 16.95 Reference Used TOR
Depth to Water 9.87 PID/FID Reading NM
Height of Column 7.08 Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / (Stickup)
Ground to Reference NM
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)	N/A	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
9:45	Begin purging at 100 ml/min										N/A
9:55	9.82	20/10	100	1.0	9.3	73.9	9.24	124.7	9.43	2.47	
10:05	9.82	20/10	100	2.0	9.1	86.5	7.52	126.4	8.86	2.74	
10:10	9.82	20/10	100	2.5	9.1	84.2	7.31	128.4	8.62	2.29	
10:15	9.82	20/10	100	3.0	9.4	83.7	7.13	-130.1	8.64	2.01	
10:20	9.82	20/10	100	3.5	9.5	83.4	6.96	-132.1	8.71	1.74	
10:25	9.82	20/10	100	4.0	9.5	84.6	6.89	-134.2	8.79	1.52	
10:30	9.82	20/10	100	4.5	9.5	85.1	6.85	-135.1	8.62	1.44	
10:35	9.82	20/10	100	5.0	9.5	85.7	6.83	-135.9	8.59	1.12	
10:36	well stable collect sample										
						N/A					

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other (Bladder Pump)

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI / Methanol Rinse
Waste Container ID

Additional Comments Sampled for VOCs

Field Personnel Sam Rooney (Jeremy Corcoran) *Signature*
Luke Chmielecki N/A

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 11 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	Sample Time 13:16
Client	OSL Site Group	

Monitoring Well Number CB-MW-04 Sample Number(s) 1246264 N/A 1246256 (JO)
~~1246264F (Filtered)~~

Initial Field Data and Measurements

Depth of Well 16.98 Reference Used TOR
Depth to Water 7.01 PID/FID Reading N/A
Height of Column 9.89 Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / (Stickup)
Ground to Reference N/A
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)	N/A	

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
11:15	Began Purging at 100 ml/min										N/A
11:25	7.03	20/10	100	1.0	12.1	1112	7.67	-46.6	1.46	368	
11:35	7.03	20/10	100	2.0	12.1	1123	6.95	-55.5	0.18	304	
11:45	7.03	20/10	100	3.0	12.5	1119	6.84	-56.4	0.13	287	
11:55	7.03	20/10	100	4.0	12.5	1117	7.57	-62.2	0.35	115	
12:05	7.03	20/10	100	5.0	12.5	1117	7.62	-67.6	0.59	57.2	
12:15	7.03	20/10	100	6.0	12.8	1114	7.34	-69.2	0.58	34.2	
12:25	7.03	20/10	100	7.0	12.5	1154	7.32	-68.7	0.57	33.1	
12:35	7.03	20/10	100	8.0	12.5	1129	7.41	-68.2	0.56	37.9	
12:45	7.03	20/10	100	9.0	12.5	1177	7.43	-69.1	0.56	31.4	
12:55	7.03	20/10	100	10.0	12.7	1110	7.36	-71.6	0.52	35.1	
13:05	7.03	20/10	100	11.0	12.4	1109	7.27	-70.9	0.51	29.1	
13:10	7.03	20/10	100	11.5	12.4	1109	7.26	-71.4	0.50	32.4	
13:15	7.03	20/10	100	12.0	12.4	1109	7.25	-70.3	0.50	32.1	
13:16	Purged For 2 Hours Sample										
					N/A						

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder Pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI / methanol rinse
Waste Container ID

Additional Comments Sampled for VOCs. Sampled with a 0.45u Filter and without

Field Personnel Sam Rooney (Jeremy Corcoran) **Signature**
Luke Chmielecki N/A

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 12 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	Sample Time 12:26
Client	OSL Site Group	

Monitoring Well Number CB-MW-02 Sample Number(s) 1246259

Initial Field Data and Measurements

Depth of Well 17.11 Reference Used TOR
Depth to Water 8.27 PID/FID Reading
Height of Column 8.84 Interface Yes / (No) If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1110	8.27	20/10	50	0	Start Purging						
1120	8.28	20/10	50	0.5	13.2	1645	7.38	408.1	2.34	280	
1130	8.29	20/10	50	1.0	13.1	1724	7.37	404.6	2.41	165	
1140	8.30	20/10	50	1.5	13.3	1725	7.28	398.4	2.77	100	
1150	8.31	20/10	50	2.0	13.2	1802	7.12	401.9	3.21	44.8	
1200	8.32	20/10	50	2.5	13.2	1792	7.18	394.8	3.49	11.5	
1210	8.33	20/10	50	3.0	13.1	1821	7.17	391.2	4.05	4.8	
1215	8.34	20/10	50	3.25	13.2	1826	7.15	396.7	4.12	4.3	
1220	8.34	20/10	50	3.50	13.2	1830	7.18	392.4	4.19	4.1	
1225	8.35	20/10	50	3.75	13.1	1837	7.17	387.9	4.24	3.9	
1226				Start Sampling							

SJR

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Bladder

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI methanol
Waste Container ID

Additional Comments

Field Personnel Sam Rooney, Luke Chmielecki, Jeremy Corcoran *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 13 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	Sample Time 10:52
Client	OSL Site Group	

Monitoring Well Number CB-MW-03 Sample Number(s) 1246258 ~~1246250~~ 1246257 (30)

Initial Field Data and Measurements

Depth of Well 19.01 Reference Used iOR
Depth to Water 9.54 PID/FID Reading
Height of Column 9.47 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	X	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
850	9.54	20/10	50	0	Start Purging						
900	9.56	20/10	50	0.50	11.0	1714	5.51	296.6	4.15	>1000	
910	9.58	20/10	50	1.0	10.8	1623	5.27	301.9	4.08	>1000	
920	9.60	20/10	50	1.5	10.0	1549	5.43	289.7	3.79	>1000	
930	9.61	20/10	50	2.0	9.5	1518	5.54	279.3	3.61	>1000	
940	9.63	20/10	50	2.5	10.8	1485	4.96	396.9	1.43	>1000	
950	9.64	20/10	50	3.0	11.2	1405	5.35	376.8	1.33	>1000	
1000	9.65	20/10	50	3.5	12.4	1426	5.10	403.6	1.27	>1000	
1010	9.66	20/10	50	4.0	12.6	1263.2	4.89	396.1	1.28	>1000	
1020	9.69	20/10	50	4.5	12.6	1653.1	4.08	389.4	1.23	>1000	
1030	9.69	20/10	50	5.0	12.2	1376	4.33	383.9	1.28	>1000	
1040	9.70	20/10	50	5.5	11.6	1352	4.81	422.1	1.16	>1000	
1050	9.71	20/10	50	6.0	11.6	1324	4.78	441.2	1.20	>1000	
1052	Start sampling										

SJR

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI methanol
Waste Container ID

Additional Comments

Field Personnel Sam Rooney, Luke Chmielecki, Jeremy Corcoran *Signature*

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 14 of 14
Project	Vapor Intrusion-GW Investigation	Date 12/12/11
Location	Old Southington Landfill, Southington, CT	Sample Time 16:01
Client	OSL Site Group	

Monitoring Well Number CB-MW-08 Sample Number(s) ~~1246267~~ 1246265 N/A N/A

Initial Field Data and Measurements

Depth of Well 34.97 Reference Used TOR
Depth to Water 27.98 PID/FID Reading Nm
Height of Column 6.99 Interface Yes / (No) If yes, Depth N/A Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference Nm
Comments N/A

General Condition	OK	Bad
Casing Secure	X	
Collar Intact	X	
Cover Locked	N/A	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
14:20	Began	Purging	at	100 ml/min							N/A
14:30	28.03	20/10	100	1.0	11.9	375.7	6.23	140.6	8.02	Nm	
14:40	28.03	20/10	100	2.0	12.0	373.5	6.41	144.7	7.93	Nm	
14:50	28.03	20/10	100	3.0	11.8	370.6	6.52	149.8	7.82	457	
15:00	28.03	20/10	100	4.0	11.7	367.9	6.47	158.6	8.06	365	
15:10	28.03	20/10	100	5.0	11.6	370.3	6.13	163.2	8.13	131	
15:20	28.03	20/10	100	6.0	11.7	357.4	6.18	173.5	7.87	73.7	
15:30	28.03	20/10	100	7.0	11.7	361.2	6.29	182.1	7.71	32.1	
15:40	28.03	20/10	100	8.0	11.7	361.8	6.36	183.7	7.69	11.2	
15:50	28.03	20/10	100	9.0	11.7	363.4	6.35	183.1	7.66	5.25	
15:55	28.03	20/10	100	9.5	11.7	362.9	6.35	182.7	7.54	3.99	
16:00	28.03	20/10	100	10.0	11.7	363.1	6.34	181.3	7.47	4.08	
16:01	well stable	collect	samples								
					N/A						

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other (Bladder Pump)

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI / Methanol wipe
Waste Container ID

Additional Comments Sampled for VOCs

Field Personnel Sam Rooney (Jeremy Corcoran) **Signature**
Luke Chmielecki N/A

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jeremy Strom	Lab PM:	Carrier Tracking No(s):	COC No: 017680
Client Contact: Joe Trzaski	Phone:	E-Mail:		Page: 2 of 2
Company: LEA				Job #:
Address: 100 Northwest Dr	Due Date Requested:			
City: Plainville, CT	TAT Requested (days): Standard			
State, Zip: CT 06067				
Phone: 860-747-6181	Quote #:			
Email:	PO #:			
Project Name/number: GSL	WO #:			
Site:	SSOW#:			

Analysis Requested

VOCs 8260B CT RP

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs:
MCP ☐ GW1/S1 ☐
RCP ☐ CT RSR ☐
DEP Form ☐ EDD Required ☐

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs 8260B CT RP	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
1246263	12/12/11	12:36	G	W				X		
~~1246263~~ 1246266		12:36						X		
1246268		12:00						X		
1246267		15:00						X		
1246269 (1 vial)		8:45						X		

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:

Relinquished by	Date/Time	Company	Received by	Date/Time	Company
[signature]	12-12-11 1630		[signature]	12-12-11 1630	
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.:
Cooler Temperature(s) °C and Other Remarks:

TAL-8245-360 0310

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information				
Client Contact: Joe Trzaski	Sampler: Jeremy / Sean	Lab PM:	Carrier Tracking No(s):	COC No:
	Phone:	E-Mail:		Page: 1 of 2
Company: LEA				Job #:
Address: 100 Northwest Dr.	Due Date Requested:			
City: Plainville	TAT Requested (days): Standard			
State, Zip: CT 06062				
Phone: 860 747-6181	Quote #:			
Email:	PO #:			
Project Name/number: OZ GISCR2	WO #:			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs:
MCP ☐ GW1/S1 ☐
RCP CT ☒ CT RSR ☒
DEP Form ☐ EDD Required ☐

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs 8260B CT RSR	HOLD										Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
1246261	12/10/11	15:56	G	W	JK			X												
1246260		14:42						X												
1246260F		14:42						X	X											JP RELEASE FOR ANALYSIS 12/13
1246259		12:26						X												
~~1246258~~ 1246258		10:52						X												
~~1246258F~~ 1246258F		10:52						X	X											JP RELEASE for analysis 12/13
1246264		13:16						X												
1246264F		13:16						X												
1246262		10:36						X												
1246265		16:01						X												

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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature] LEA	12-12-4 1630		[signature]	12-12-4 1630	
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.:

Cooler Temperature(s) °C and Other Remarks:

DAILY FIELD REPORT

Loureiro Engineering Associates, Inc.

LEA Comm. No.	**61SL902.003**	Page 1 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Arrived at Site 0730 Departed from Site 1645 Vehicle ST-12

Odometer (Start) Return

Site Activities

- [ ] Soil Sampling
- [x] Groundwater Sampling
- [ ] Surface Water Sampling
- [x] Vapor/Air Sampling
- [ ] Concrete Sampling
- [ ] Other Sampling
- [ ] Other Sampling
- [ ] Well Development
- [ ] Geoprobe Work
- [ ] Concrete Coring
- [ ] Construction
- [ ] Waste Management
- [ ] Inspection
- [ ] Site Walk Over
- [ ] Surveying
- [ ] Other (Describe)

Current Project Information 2 miles

Last Sample Number Used

Last Location ID Used

Current Location (if not complete)

Sampling for VOCs

Laboratories used Test America

Paperwork & Equipment left at/in Site Trailer

Site Contact

Contractors on Site LEA

Time and place to meet contractors

Non-productive Time

- [x] None
- [ ] Equipment Breakdown
- [ ] Late
- [ ] Weather
- [ ] Missing Equipment
- [ ] Other (Describe)

Quality Assurance Checks

Yes	N/A	No	
✓			Sample labels complete
	✓		Sample/cooler seals OK
✓			All samples obtained
✓			Chains of custody
✓			All forms/logs complete
✓			Site condition OK
✓			Site H&S Plan on site
✓			Instruments calibrated

Checked By

Residuals Disposition

Item	Approx. Amount	Container ID
Soil/Solid		
Groundwater	25 Gallons	OSL-CT-001
Decon Fluid		
PPE		
Other		

Weather Conditions

Temperature 54° Precipitation ——— Wind moderate

Comments

afternoon sun with a moderate breeze

Expendable Items Used

Qty	Item	LEA Number
	Bailer, Disposable (specify size)	090
	Drum, Closed Top 55 Gallon	086
	Filter, In Line	024
	Gas Probes, 5' Stainless Steel	110
1	Miscellaneous Health & Safety Items	060
	Tedlar Bags	079
	Tubing, 1/2", NOS	007
500'	Tubing, ~~3/8"~~, NOS 1/4" poly	008
1	Water, Distilled	025

Equipment Used

Qty	Item	LEA Number
	Air Sampler-MSA Escort Elf	047
	Drill, Hilti, incl. Concrete Anchors	010
	Gauge, Magnehelic Vacuum	133
	Generator 3500 Watt	153
	Hand Auger, w/ attachments	013
	Helium Detector	091
	Meter, Conductivity	022
2	~~Meter, pH/Temp~~ Backpack pump controller	021
1	Miscellaneous Small Tools & Equipment	152
	Pump, Grundfos	073
1	Pump, Peristaltic (spec. Master or Isco)	040
2	Pump, ~~Submersible~~ bladder pump	201
2	~~Pump, Watera~~ YSI meter	038
1	Soil Gas Sampler	078
1	Soil Gas Survey Equipment	087
2	Turbidimeter	023

Field Personnel Luke Chmielecki, Alex Clarke, Heather Grimm, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT

Supplemental Sheet

LEA Comm. No.	**61SL902.003**	Page 2 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Description of Site Activities

0730 · onsite
· begin equipment setup & calibrations
0830 · notify Chuck & Eddie personnel that manhole blocks need to be moved to gain access to wells
0840 · setup on Radio station wells
1115 · finish Radio station wells
· move to Chuck & Eddie's wells
1145 · finish sampling
· off site

Field Personnel	Luke Chmielecki	Alex Clarke	***Signature***
	Heather Grimm	Nate Emmons	

Loureiro Engineering Associates, Inc.

DAILY FIELD REPORT
CALIBRATION RECORD

LEA Comm. No.	**61SL902.003**		Page 3 of 14
Project	Vapor Intrusion-GW Investigation		Date 3/15/12
Location	Old Southington Landfill, Southington, CT		
Client	OSL Site Group		

pH Meter/Serial #

		Time	pH 4.01	pH 7.00	pH 10.01	Spec. Cond.	ORP	DO
Initial Calibration	06E1427AN	0830	4.00	7.00	10.00	1000	100	99.8
Calibration Check	~~06E1427~~	↓						
Calibration Check	1G100864		4.00	7.00	10.00	1000	100	99.6

Turbidity Meter/Serial #

		Time	0 NTU	~~20 NTU~~ 10 NTU	100 NTU	800 NTU
Initial Calibration	2810	0830	.15	9.89		
Calibration Check	2017	0830	0.00	10.2	106	796
Calibration Check						

PID Meter/Serial # 3053

	Time	Standard	Meter Reading	Zero with
Initial Calibration	0830	100	101	ambient air
Calibration Check				
Calibration Check				

Balance/Serial #

	Time	Standard	Balance
Initial Calibration			
Calibration Check			
Calibration Check			

Comments

Field Personnel	Luke Chmielecki	Alex Clarke	***Signature***
	Heather Grimm	Nate Emmons	

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
MISCELLANEOUS SAMPLES

LEA Comm. No.	**61SL902.003**	Page 4 of 14	
Project	Vapor Intrusion-GW Investigation	Date 3/5/12	
Location	Old Southington Landfill, Southington, CT		
Client	OSL Site Group		

Sample ID	Location ID	Time	Sample Type	Depth (ft)	PID/FID Reading	Comments	Waste Cont. ID
1253646	CB-MW-05	1310	DUP			Duplicate sample	OSL-CT-004
1253647		0900	BKT			Trip Blank	
1253661							
~~1253645~~		1530	BKE			Equipment Blank	

Field Personnel	Luke Chmielecki	Alex Clarke	***Signature***
	Heather Grimm	Nate Emmons	

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 5 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	Sample Time 09:45
Client	OSL Site Group	

Monitoring Well Number OB-MW-03 Sample Number(s) 1253650

Initial Field Data and Measurements

Depth of Well 18.10 Reference Used top of pvc riser
Depth to Water 10.46 PID/FID Reading 0.0
Height of Column 7.64 Interface Yes (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material pvc
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
0900	1046	103	120	0	←	start purging				→	
0910	1050	103	120	1.2	9.36	906	7.06	103.0	6.08	103.4	
0920	1050	103	120	2.4	8.92	891	6.87	102.6	5.89	57.0	
0930	1050	103	120	3.6	8.96	890	6.82	102.7	5.80	20.4	
0935	1051	103	120	4.2	8.81	865	6.76	104.7	6.29	10.4	
0940	1051	103	120	4.8	8.80	862	6.75	105.3	6.39	6.74	
0945	1051	103	120	5.4	8.79	863	6.76	104.9	6.36	4.87	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other bladder pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? liquinox DI water
Waste Container ID OSL-CT-004

Additional Comments

Field Personnel Luke Chmielecki, Alex Clarke, Heather Grimm, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 6 of 14	
Project	Vapor Intrusion-GW Investigation	Date 3/15/12	
Location	Old Southington Landfill, Southington, CT	Sample Time 10:20	
Client	OSL Site Group		

Monitoring Well Number CB-MW-02 Sample Number(s) 1253651

Initial Field Data and Measurements

Depth of Well 17.11 Reference Used TOR
Depth to Water 9.07 PID/FID Reading ~~NM~~
Height of Column 8.04 Interface Yes / (No) If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector (Road Box) / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
9:05	9.07	10psi	180	0	9.62	298	7.78	219.4	16.00	—	Purging
9:15	9.14		100	1	8.98	282	7.46	197.8	5.86	203	
9:25	9.13			2	8.86	280	7.46	199.3	5.54	145	
9:35	9.14			3	8.85	273	7.43	273	5.12	107	
9:45	9.14			4	8.80	241	7.39	206.2	4.64	60.3	
9:55	9.14			5	8.76	227	7.35	205.9	5.02	32.4	
10:05	9.14			6	8.79	225	7.30	201.3	5.41	17.2	
10:10	9.14			6.5	8.80	224	7.29	203.4	5.50	11.3	
10:15	9.14			7	8.78	224	7.28	200.1	5.48	8.32	
10:20	9.14	10psi	100	7.5	8.78	224	7.28	203.1	5.67	5.30	
Sample											

Developement Method Peristaltic Pump / Bailer / Inertial Pump / (Other) Bladder

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? (Yes) / No If Yes, with what? DI, Meth, Nitric, Liquinox
Waste Container ID OSL-CT-004

Additional Comments

Field Personnel Luke Chmielecki, Heather Grimm, Alex Clarke, Nate Emmons

Signature Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 7 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	Sample Time 11:05
Client	OSL Site Group	

Monitoring Well Number CB-MW-01 Sample Number(s) 1253652

Initial Field Data and Measurements

Depth of Well 15.29 Reference Used top of pvc riser
Depth to Water 4.94 PID/FID Reading 0.0
Height of Column 10.35 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material pvc
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1000	4.94	103	140	0	←	start purging					→
1010	4.96	103	140	1.4	7.68	703	6.16	132.9	5.61	136	
1020	4.96	103	140	2.8	7.80	712	5.82	41.1	.64	214	
1030	4.96	103	140	4.2	7.78	717	5.82	40.3	.59	256	
1040	4.97	103	140	5.6	7.59	710	5.77	25.9	.34	273	
1050	4.97	103	140	7.0	7.64	712	5.78	10.7	.33	281	
1055	4.97	103	140	7.7	7.64	712	5.78	10.5	.32	293	
1100	4.97	103	140	8.4	7.64	712	5.78	9.9	.35	298	
1105	4.97	103	140	9.1	7.63	712	5.78	10.1	.33	312	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Waterra pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? liquinox, DI, methanol
Waste Container ID OSL-CT-004

Additional Comments

Field Personnel Luke Chmielecki, Alex Clarke, Heather Grimm, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 8 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	Sample Time 13:40
Client	OSL Site Group	

Monitoring Well Number CB-MW-01 Sample Number(s) 1253654

Initial Field Data and Measurements

Depth of Well 17.08 Reference Used top of riser
Depth to Water 7.87 PID/FID Reading 0.0
Height of Column 9.21 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material pvc
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1200	7.87	103	140	0	←	start purging				→	
1210	7.93	103	140	1.4	10.06	1191	6.35	59.8	.99	200	
1220	7.93	103	140	2.8	10.13	1195	6.37	28.9	.72	263	
1230	7.93	103	140	4.2	10.16	1186	6.39	26.4	.70	271	
1240	7.93	103	140	5.6	10.25	1197	6.54	-9.8	.42	166	
1250	7.94	103	140	7.0	10.02	1300	6.58	-17.8	.53	182	
1300	7.94	103	140	8.4	9.99	1269	6.50	-26.7	.33	53.4	
1320	7.95	103	140	11.2	10.05	1166	6.50	39.9	.26	23.6	
1330	7.95	103	140	12.6	10.10	1175	6.47	-40.4	.22	8.74	
1335	7.96	103	140	13.3	10.08	1169	6.47	-41.7	.19	6.36	
1340	7.96	103	140	14.0	10.12	1176	6.47	-42.0	.20	5.13	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other bladder pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? Liquinox, DI, methanol
Waste Container ID GSL-CT-001

Additional Comments

Field Personnel Luke Chmielecki, Alex Clarke, Heather Grimm, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 9 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	Sample Time 13:40
Client	OSL Site Group	

Monitoring Well Number CB-MW-05 Sample Number(s) 1253655 DUP 1253646

Initial Field Data and Measurements

Depth of Well 17.10 Reference Used Taf R
Depth to Water 9.31 PID/FID Reading 0.0
Height of Column 7.79 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC

Protector Road Box / Stickup
Ground to Reference 36"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
12:00	9.31	15psi	100	0							Purging
12:20	9.32			2	10.83	614	6.72	219.6	3.74	138	
12:30	9.32			3	10.86	615	6.72	215.3	1.76	118	
12:40	9.32			4	10.88	612	6.73	210.1	1.09	104	
12:50	9.32			5	10.98	611	6.73	191.5	0.91	91.0	
13:00	9.32			6	10.97	611	6.72	190.2	0.69	78.2	
13:10	9.32			7	10.98	611	6.72	190.4	0.65	67.4	
13:20	9.32			8	10.98	610	6.72	189.7	0.64	65.3	
13:30	9.32			9	10.97	610	6.72	189.5	0.66	62.0	
13:35	9.32			9.5	10.98	610	6.72	188.4	0.65	61.1	
13:40	9.32	15psi	100	10	10.98	609	6.72	187.3	0.67	59.8	
Sample											

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? Liquinox, Meth, Nitric, DI water
Waste Container ID OSL-CT-004

Additional Comments Turbidity stopped drop.

Field Personnel Luke Chmielecki, Alex Clarke, Heather Grimm, Nate Emmons

Signature Nathan Emmons

25.11
33.25

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL901.003**	Page 10 of 14
Project	Cap-Effectiveness GW Monitoring	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	Sample Time 14:32
Client	Murtha, Cullina, Richter & Pinney	

Monitoring Well Number CB-MW-06 Sample Number(s) ~~1253634~~ 1253656

Initial Field Data and Measurements

Depth of Well 17.68' Reference Used TOC
Depth to Water 12.75' PID/FID Reading
Height of Column 4.93' Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference TOC
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)	—	

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1255	12.75	103	140	0.0			Start pumping				
1305	13.02	103	140	1.4	8.98	38	2.56	63.9	5.97	17.3	
1315	13.21	103	140	2.8	9.78	39	5.10	62.3	5.11	19.4	
1325	13.18	103	200	3.4	10.19	39	5.14	65.6	4.95	22.6	
1330	13.20	103	200	4.4	9.66	39	5.18	62.2	5.31	12.3	
1335	13.20	103	200	5.4	9.56	38	5.22	60.8	5.11	20.7	
1340	13.20	103	200	6.4	10.02	38	5.21	62.4	4.98	23.2	
1345	13.20	103	200	7.4	9.73	38	5.22	65.6	5.07	18.0	
1350	13.20	103	200	8.4	9.68	38	5.14	70.0	5.23	14.8	HS
1355	13.21	103	200	9.4	9.62	38	5.13	71.4	4.81	13.4	
1400	13.21	103	200	10.4	9.38	38	5.10	87.7	4.91	12.1	
1405	13.21	103	200	11.4	9.04	37	4.55	98.7	4.86	9.69	
1410	13.21	103	200	12.4	9.17	38	4.86	85.0	4.85	9.09	
1415	13.21	103	200	13.4	9.53	38	5.04	77.4	5.16	8.78	
1420	13.21	103	200	14.4	9.58	38	5.14	73.5	4.87	7.54	
1423	13.21	103	200	15.0	9.68	38	5.15	73.2	4.85	6.59	
1426	13.21	103	200	15.7	9.63	38	5.15	71.2	4.87	6.05	
1429	13.21	103	200	16.3	9.60	38	5.14	71.4	4.89	6.20	
											SAMPLED

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI/Meth
Waste Container ID OSLCT-004

Additional Comments

Field Personnel	Luke Chmielecki	Alex Clarke	*Signature*
	Heather Grimm	Nate Emmons	

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 11 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	Sample Time 15:20
Client	OSL Site Group	

Monitoring Well Number CB-MW-07 Sample Number(s) 1253657

Initial Field Data and Measurements

Depth of Well 33.25 Reference Used T of R
Depth to Water 25.11 PID/FID Reading ~~NM~~
Height of Column 8.14 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material PVC
Protector Road Box / Stickup
Ground to Reference 6"
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
14:30	25.11	50psi	100	0							Purging
14:40	25.18			1	14.42	706	7.38	216.2	10.24	27.6	
14:50	25.14			2	13.80	730	7.36	214.3	11.40	11.3	
15:00	25.14			3	13.51	728	7.36	213.9	12.06	8.17	
15:10	25.14			4	13.48	724	7.36	213.8	12.41	5.66	
15:15	25.14			4.5	13.50	723	7.36	213.8	12.38	2.43	
15:20	25.14	50psi	100	5.0	13.45	723	7.36	212.9	12.43	2.38	
SAMPLE											

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Bladder

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? Liquinox, Meth, Nitric, DI
Waste Container ID OSL-CT-004

Additional Comments

Field Personnel	Luke Chmielecki	Alex Clarke	***Signature***
	Heather Grimm	Nate Emmons	Nathan Emmons

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 12 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	Sample Time 15:30
Client	OSL Site Group	

Monitoring Well Number CB-MW-08 Sample Number(s) 1253658 1253658

Initial Field Data and Measurements

Depth of Well 35.15 Reference Used top of pvc riser
Depth to Water 28.47 PID/FID Reading 0.0
Height of Column 6.68 Interface Yes / No If yes, Depth _____ Lighter / Heavier

Well Casing Diameter 2" Material pvc
Protector Road Box / Stickup
Ground to Reference _____
Comments _____

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Time \ Parameter	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1430	28.47	103	120	0	←		start	purging		→	
1440	28.50	103	120	1.2	12.77	468	6.80	42.9	10.89	326	
1450	28.50	103	120	2.4	12.73	463	6.80	43.8	10.83	107	
1500	28.50	103	120	3.6	12.63	464	6.69	61.9	10.91	42.3	
1510	28.51	103	120	4.8	12.65	436	6.67	70.1	10.87	15.6	
1520	28.51	103	120	6	12.62	426	6.65	85.7	10.90	8.31	
1525	28.52	103	120	6.6	12.68	427	6.64	86.2	10.86	4.66	
1530	28.52	103	120	7.2	12.65	427	6.64	86.3	10.89	4.81	

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other Hydrolift pump

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? Isopropanol, DI, methanol
Waste Container ID OSL-CT-004

Additional Comments

Field Personnel Luke Chmielecki, Alex Clarke, Heather Grimm, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
LOW FLOW WELL SAMPLE

LEA Comm. No.	**61SL902.003**	Page 13 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	Sample Time 13:35
Client	OSL Site Group	

Monitoring Well Number SDW-9A Sample Number(s) 1253660

Initial Field Data and Measurements

Depth of Well 13.50 Reference Used TOR
Depth to Water 4.36 PID/FID Reading NM
Height of Column 9.14 Interface Yes / No If yes, Depth Lighter / Heavier

Well Casing Diameter 1.5" Material PVC
Protector Road Box / Stickup
Ground to Reference
Comments

General Condition	OK	Bad
Casing Secure	✓	
Collar Intact	✓	
Cover Locked	✓	
Other (describe)		

Development Information

Parameter / Time	Depth to Water	Pump Setting	Purge Rate (mL/min)	Cum. Liters Purged (L)	Temp (C)	Spec. Cond. (uS/cm)	pH (SU)	ORP (Eh)	DO (mg/L)	Turbidity (NTU)	Comment
1250	4.36	300	100	0							Start
1300				1	8.06	60	5.50	-55.9	0.38	9.72	
1310				2	8.17	63	5.40	-71.6	0.30	6.10	
1320				3	8.05	61	5.41	-72.8	0.23	5.02	
1325				3.5	8.09	62	5.44	-80.3	0.25	4.87	
1330				4	8.03	61	5.42	-78.4	0.23	4.76	
1335	4.36	300	100	4.5	8.06	62	5.43	-79.9	0.24	4.72	Sampled

Developement Method Peristaltic Pump / Bailer / Inertial Pump / Other

Sample Field Treatment *If any ambiguity could exist, be sure to indicate the field treatment applied to each sample aliquot with the appropriate suffix in the sample ID on both the sample bottle label and on the Chain of Custody!*

Field Decontamination? Yes / No If Yes, with what? DI, Methanol wipe on WLI
Waste Container ID OSL-CT-004

Additional Comments

Field Personnel Luke Chmielecki, Heather Grimm, Alex Clarke, Nate Emmons

Signature

Loureiro Engineering Associates, Inc.

FIELD SAMPLING RECORD
SOIL VAPOR SCREENING

LEA Comm. No.	**61SL902.003**	Page 14 of 14
Project	Vapor Intrusion-GW Investigation	Date 3/15/12
Location	Old Southington Landfill, Southington, CT	
Client	OSL Site Group	

Sample ID	Location ID	Time	Depth (ft)	High Reading	Low Reading	Flow Rate	PID/FID Reading	Probe #/ Comments
1253662	CE-SV-01				@1420			Can 3530 / Controller 5188
1253663	CE-SV-02	0900	NA	-29	-8	6 hr	NA	Can 2884 / Controller 3752
1253664	Southern	0930	NA	-29	-6@230	6 hr	NA	Can 3574 / Controller 5203
1253665	Northern	0930	NA	-29	-6@230	6 hr	NA	Can 4924 / Controller 3251

Not able to do today. Probe under pile of tires. JJ from C+E will call me when pile is moved. Maybe tomorrow.

Field Personnel	Luke Chmielecki	Alex Clarke	***Signature***
	Heather Grimm	Nate Emmons	

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: ~~LEA~~ Joe Trzoski	Field Sampler: LPC, AKC, NE	TAT Required (business days): standard 7 day	Lab PM/Contact:	COC Number: 21940
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page 1 of 2
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860-747-6181	WO #:			
Email:	Project #: 615L902.003	State Regulatory QC Criteria Requirements: CT RCPs	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL VIMP	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOCs 8260B									Comments
	1253650	3/15/12	0945	Aq	No				3				X									
	1253651		1020						3				X									
	1253652		1105						3				X									
	1253654		1340						3				X									
	1253655		1340						3				X									
	1253656		1432						3				X									
	1253657		1520						3				X									
	1253658		1530						3				X									
	1253660		1335						3				X									
	1253646	3/15/12	1340	Aq	No				3				X									

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/15/12 1606	LEA	[signature]	3/15/12 1606	TAcT
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: LPC AKC NE	TAT Required (business days): Standard 7 Day	Lab PM/Contact:	COC Number: 20610
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page 2 of 2
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860 747 6181	WO #:			
Email:	Project #: 615L902.003	State Regulatory QC Criteria Requirements: CT RCPs	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL VIMP	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOCs 8260 B									Comments
	1253647	3/15/12	0900	Aq	No				1				X									
	1253661	3/15/12	1530	Aq	No				3				X									

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/15/12 1600	LEA	[signature]	3/15/12 1600	TAC
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Comments:

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

APPENDIX C

Analytical Laboratory Reports

ANALYTICAL REPORT

Job Number: 220-15753-1

Job Description: UTC-Old Southington Landfill

For:
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trzaski

Approved for release.
Steve Hartmann
Service Center Manager
7/22/2014 4:47 PM

Designee for
Jill M Duhancik, Project Manager II
12 Progress Road, Shelton, CT, 06484
jill.duhancik@testamericainc.com
07/22/2014
Revision: 1

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Connecticut**	***Client:***	**Loureiro Engineering**
Project Location:	**OSL CT**	***Project Number:***	**220-15753-1**
Laboratory Sample ID (s):	**220-15753 1-14**	***Sampling Date (s):***	**6/15/11**
RCP Method:	**8260B**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6°C)?	Yes √	N/A	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes		No √
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes √		No
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes		No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes √		No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Doreen Nemeth Position: Quality Assurance Manager

Printed Name: **Doreen Nemeth** Date: June 23, 2011

The certification form has been electronically signed and approved.

Updated November 2007

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CTDEP PH-0497

ACCREDITED IN ACCORDANCE WITH nelac

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel:(203)929-8140

Revision I: Per client request, this report was revised on 7/22/2014 to update the following sample identifications: 220-15753-2 from 1230188a to 1246253, 220-15753-3 from 1230188b to 1230175, 220-15753-5 from 1230184a to 1246254, 220-15753-6 from 1230184b to 1230189, 220-15753-8 from 1230180a to 1246274, and 220-15753-9 from 1230180b to 1230194.

CASE NARRATIVE

Client: Loureiro Engineering Associates, P.C.

Project: UTC-Old Southington Landfill

Report Number: 220-15753-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All analyses listed in this report comply with the UTC, Analytical Minimum Standards for Laboratories- June 2008, Rev 4'.

RECEIPT

The samples were received on 06/15/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.1C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 220-15753-1 through 220-15753-14 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/17/2011.

Chloroethane (144%) failed the recovery criteria high for LCSD 220-52021/7.
The following samples were affected: (LCS 220-52021/2), (LCSD 220-52021/7), (MB 220-52021/3), 1230180 (220-15753-7), 1230180 a (220-15753-8), 1230180 b (220-15753-9), 1230181 (220-15753-11), 1230183 (220-15753-12), 1230184 (220-15753-4), 1230184 a (220-15753-5), 1230184 b (220-15753-6), 1230185 (220-15753-13), 1230188 (220-15753-1), 1230188 a (220-15753-2), 1230188 b (220-15753-3), 1230192 (220-15753-14), 1230193 (220-15753-10).

The initial calibration curve analyzed on instrument MSV on 06/15/11 was outside CTRCP acceptance criteria for 1,3,5-trimethylbenzene at 31.5%RSD, 1,2,4-trimethylbenzene at 30.6% RSD, sec-butylbenzene at 27.5%RSD, n-butylbenzene at 19.9%RSD, 4-isopropyltoluene at 31.7%RSD, tert-butylbenzene at 28.3%RSD, hexachlorobutadiene at 23.4%RSD, and xylene m&p at 28.5%RSD. The quadratic curve fit was used for chloroethane and n-propylbenzene.
The following samples were affected: (LCS 220-52021/2), (LCSD 220-52021/7), (MB 220-52021/3), 1230180 (220-15753-7), 1230180 a (220-15753-8), 1230180 b (220-15753-9), 1230181 (220-15753-11), 1230183 (220-15753-12), 1230184 (220-15753-4), 1230184 a (220-15753-5), 1230184 b (220-15753-6), 1230185 (220-15753-13), 1230188 (220-15753-1), 1230188 a (220-15753-2), 1230188 b (220-15753-3), 1230192 (220-15753-14), 1230193 (220-15753-10).

The continuing calibration verification (CCV) analyzed on instrument MSV on 05/17/11 recovered above the CTRCP upper control limit for dichlorodifluoromethane at -32.4%D. The following samples were affected: (LCS 220-52021/2), (LCSD 220-52021/7), (MB 220-52021/3), 1230180 (220-15753-7), 1230180 a (220-15753-8), 1230180 b (220-15753-9), 1230181 (220-15753-11), 1230183 (220-15753-12), 1230184 (220-15753-4), 1230184 a (220-15753-5), 1230184 b (220-15753-6), 1230185 (220-15753-13), 1230188 (220-15753-1), 1230188 a (220-15753-2), 1230188 b (220-15753-3), 1230192 (220-15753-14), 1230193 (220-15753-10).

Method 8260B Poor Performers: Acetone, Bromoform, Bromomethane, 1,2-Dibromo-3-chloropropane, Dichlorodifluoromethane, cis-1,3-Dichloropropene, 2-Hexanone, 2-Butanone (MEK), 4-Methyl-2-Pentanone (MIBK), Naphthalene, Styrene and 1,1,2,2-Tetrachloroethane.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

CTDEP RCP/RSR Laboratory Detection Limit Exceedances

CTRCP - Aqueous Volatile Low Detection Limit Exceedances

The following Connecticut Reasonable Confidence Protocol (CTRCP) aqueous Volatile method 8260 low detection limits could not be achieved using routine laboratory reporting limits (RLs): Acrylonitrile, Bromomethane, Chloroethane, Dichlorodifluoromethane, Hexachlorobutadiene, Methylene chloride.

Connecticut Remediation Standard Exceedances

The following Connecticut Remediation Standard Regulations (CTRSRs) detection limits could not be achieved using routine laboratory reporting limits (RLs):

Volatiles 8260

Groundwater / Surface Water – GWPC Volatile Organic Compounds: Acrolein*, Acrylonitrile, 1,4-Dichlorobutene, Ethylene dibromide, Hexachlorobutadiene**

Groundwater / Surface Water – Proposed RES GWVC Volatile Organic Compound: Ethylene dibromide.

Soil GB PMC: Acrolein*

* Note that Acrolein is not an analyte required under the CTRCP 8260 Analyte List, Table 1B
** Note that Hexachlorobutadiene is also a SVOA CTRCP target compound. The CTRSR limit for this compound can be achieved by the 8270 SemiVolatile SIM method.

SemiVolatile 8270

Groundwater / Surface Water – GWPC SemiVolatile Organic Compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Pentachloronitrobenzene, Pyridine, 1,2,4,5-Tetrachlorobenzene.

Groundwater / Surface Water – SWPC SemiVolatile Organic Compounds: Dibenzo(a,h)anthracene, Hexachlorobenzene, Phenanthrene.

Soil GA/GAA PMC: 2,4-Dinitrophenol

Soil GB PMC: Pyridine, Pentachloronitrobenzene

Pesticide 8081

Groundwater / Surface Water – GWPC Pesticides: Aldrin, BHC-beta, Chlordane, Dieldrin

Groundwater / Surface Water – SWPC Pesticides: Chlordane, Toxaphene.

PCB 8082

Soil GA/GAA PMC and GB PMC (TCLP Only): Total PCBs

128 Long Hill Cross Road Shelton, CT 06484 tel 203.929.8140 fax 203.929.8142 www.testamericainc.com

Metals 6010

Ground / Surface Water – GWPC: Antimony, Arsenic, Beryllium, Thallium

Groundwater / Surface Water – SWPC: Arsenic, Beryllium, Lead

Soil GA/GAA PMC (TCLP only): Antimony, Arsenic, Beryllium, Thallium

All other Connecticut Remediation Standard Regulation (CTRSRs) can be achieved by TestAmerica Connecticut. Elevated detection limits may occur as a result of sample specific dilutions, matrix interference, or dry weight correction for soil samples.

Client: Loureiro Engineering Associates

Job Number: 220-15753-1

Laboratory Chronicle

Lab ID: 220-15753-1 **Client ID:** 1230188

Sample Date/Time: 06/15/2011 11:10 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-C-1		220-52021		06/17/2011 19:19	1	TAL CT	BK
A:8260	220-15753-C-1		220-52021		06/17/2011 19:19	1	TAL CT	BK

Lab ID: 220-15753-2 **Client ID:** 1246253

Sample Date/Time: 06/15/2011 15:20 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-C-2		220-52021		06/17/2011 19:46	1	TAL CT	BK
A:8260	220-15753-C-2		220-52021		06/17/2011 19:46	1	TAL CT	BK

Lab ID: 220-15753-3 **Client ID:** 1230175

Sample Date/Time: 06/15/2011 15:25 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-C-3		220-52021		06/17/2011 20:14	1	TAL CT	BK
A:8260	220-15753-C-3		220-52021		06/17/2011 20:14	1	TAL CT	BK

Lab ID: 220-15753-4 **Client ID:** 1230184

Sample Date/Time: 06/15/2011 10:56 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-B-4		220-52021		06/17/2011 20:41	1	TAL CT	BK
A:8260	220-15753-B-4		220-52021		06/17/2011 20:41	1	TAL CT	BK

Lab ID: 220-15753-5 **Client ID:** 1246254

Sample Date/Time: 06/15/2011 15:30 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-B-5		220-52021		06/17/2011 15:13	1	TAL CT	BK
A:8260	220-15753-B-5		220-52021		06/17/2011 15:13	1	TAL CT	BK

Lab ID: 220-15753-6 **Client ID:** 1230189

Sample Date/Time: 06/15/2011 15:35 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-A-6		220-52021		06/17/2011 18:24	1	TAL CT	BK
A:8260	220-15753-A-6		220-52021		06/17/2011 18:24	1	TAL CT	BK

Client: Loureiro Engineering Associates

Job Number: 220-15753-1

Laboratory Chronicle

Lab ID: 220-15753-7 **Client ID:** 1230180

Sample Date/Time: 06/15/2011 11:30 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-B-7		220-52021		06/17/2011 17:56	1	TAL CT	BK
A:8260	220-15753-B-7		220-52021		06/17/2011 17:56	1	TAL CT	BK

Lab ID: 220-15753-8 **Client ID:** 1246274

Sample Date/Time: 06/15/2011 15:40 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-A-8		220-52021		06/17/2011 13:24	1	TAL CT	BK
A:8260	220-15753-A-8		220-52021		06/17/2011 13:24	1	TAL CT	BK

Lab ID: 220-15753-9 **Client ID:** 1230194

Sample Date/Time: 06/15/2011 15:45 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-B-9		220-52021		06/17/2011 13:51	1	TAL CT	BK
A:8260	220-15753-B-9		220-52021		06/17/2011 13:51	1	TAL CT	BK

Lab ID: 220-15753-10 **Client ID:** 1230193

Sample Date/Time: 06/15/2011 09:00 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-A-10		220-52021		06/17/2011 17:29	1	TAL CT	BK
A:8260	220-15753-A-10		220-52021		06/17/2011 17:29	1	TAL CT	BK

Lab ID: 220-15753-11 **Client ID:** 1230181

Sample Date/Time: 06/15/2011 15:10 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-B-11		220-52021		06/17/2011 14:18	1	TAL CT	BK
A:8260	220-15753-B-11		220-52021		06/17/2011 14:18	1	TAL CT	BK

Lab ID: 220-15753-12 **Client ID:** 1230183

Sample Date/Time: 06/15/2011 14:25 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-A-12		220-52021		06/17/2011 16:34	1	TAL CT	BK
A:8260	220-15753-A-12		220-52021		06/17/2011 16:34	1	TAL CT	BK

Client: Loureiro Engineering Associates

Job Number: 220-15753-1

Laboratory Chronicle

Lab ID: **220-15753-13** **Client ID:** **1230185**

Sample Date/Time: 06/15/2011 14:26 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-A-13		220-52021		06/17/2011 17:01	1	TAL CT	BK
A:8260	220-15753-A-13		220-52021		06/17/2011 17:01	1	TAL CT	BK

Lab ID: **220-15753-14** **Client ID:** **1230192**

Sample Date/Time: 06/15/2011 14:25 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15753-A-14		220-52021		06/17/2011 14:45	1	TAL CT	BK
A:8260	220-15753-A-14		220-52021		06/17/2011 14:45	1	TAL CT	BK

Lab ID: **MB** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 220-52021/3		220-52021		06/17/2011 12:56	1	TAL CT	BK
A:8260	MB 220-52021/3		220-52021		06/17/2011 12:56	1	TAL CT	BK

Lab ID: **LCS** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 220-52021/2		220-52021		06/17/2011 11:33	1	TAL CT	BK
A:8260	LCS 220-52021/2		220-52021		06/17/2011 11:33	1	TAL CT	BK

Lab ID: **LCSD** **Client ID:** **N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 220-52021/7		220-52021		06/17/2011 12:00	1	TAL CT	BK
A:8260	LCSD 220-52021/7		220-52021		06/17/2011 12:00	1	TAL CT	BK

Lab References:

TAL CT = TestAmerica Connecticut

METHOD SUMMARY

Client: Loureiro Engineering Associates

Job Number: 220-15753-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260	
Purge and Trap	TAL CT		SW846 5030B

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Method	Analyst	Analyst ID
SW846 8260	Kostrzewska, Barbara	BK

SAMPLE SUMMARY

Client: Loureiro Engineering Associates

Job Number: 220-15753-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-15753-1	1230188	Water	06/15/2011 1110	06/15/2011 1800
220-15753-2	1246253	Water	06/15/2011 1520	06/15/2011 1800
220-15753-3	1230175	Water	06/15/2011 1525	06/15/2011 1800
220-15753-4	1230184	Water	06/15/2011 1056	06/15/2011 1800
220-15753-5	1246254	Water	06/15/2011 1530	06/15/2011 1800
220-15753-6	1230189	Water	06/15/2011 1535	06/15/2011 1800
220-15753-7	1230180	Water	06/15/2011 1130	06/15/2011 1800
220-15753-8	1246274	Water	06/15/2011 1540	06/15/2011 1800
220-15753-9	1230194	Water	06/15/2011 1545	06/15/2011 1800
220-15753-10	1230193	Water	06/15/2011 0900	06/15/2011 1800
220-15753-11	1230181	Water	06/15/2011 1510	06/15/2011 1800
220-15753-12	1230183	Water	06/15/2011 1425	06/15/2011 1800
220-15753-13	1230185	Water	06/15/2011 1426	06/15/2011 1800
220-15753-14	1230192	Water	06/15/2011 1425	06/15/2011 1800

SAMPLE RESULTS

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230188**

Lab Sample ID: 220-15753-1
Client Matrix: Water

Date Sampled: 06/15/2011 1110
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1571.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1919			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1919				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	3.6		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230188**

Lab Sample ID: 220-15753-1
Client Matrix: Water

Date Sampled: 06/15/2011 1110
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1571.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1919			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1919				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene	86		70 - 130
Dibromofluoromethane	119		70 - 130
Toluene-d8 (Surr)	88		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1246253**

Lab Sample ID: 220-15753-2
Client Matrix: Water

Date Sampled: 06/15/2011 1520
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1572.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1946			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1946				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	6.5		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1246253**

Lab Sample ID: 220-15753-2
Client Matrix: Water

Date Sampled: 06/15/2011 1520
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1572.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1946			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1946				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	117		70 - 130
4-Bromofluorobenzene	84		70 - 130
Dibromofluoromethane	117		70 - 130
Toluene-d8 (Surr)	87		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230175**

Lab Sample ID: 220-15753-3
Client Matrix: Water

Date Sampled: 06/15/2011 1525
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1573.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 2014			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 2014				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	6.1		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230175**

Lab Sample ID: 220-15753-3
Client Matrix: Water

Date Sampled: 06/15/2011 1525
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1573.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 2014			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 2014				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	119		70 - 130
Toluene-d8 (Surr)	88		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230184**

Lab Sample ID: 220-15753-4
Client Matrix: Water

Date Sampled: 06/15/2011 1056
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1574.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 2041			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 2041				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230184**

Lab Sample ID: 220-15753-4
Client Matrix: Water

Date Sampled: 06/15/2011 1056
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1574.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 2041			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 2041				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene	83		70 - 130
Dibromofluoromethane	118		70 - 130
Toluene-d8 (Surr)	87		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1246254**

Lab Sample ID: 220-15753-5
Client Matrix: Water

Date Sampled: 06/15/2011 1530
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1562.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1513			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1513				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	12		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	1.0		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1246254**

Lab Sample ID: 220-15753-5
Client Matrix: Water

Date Sampled: 06/15/2011 1530
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1562.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1513			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1513				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene	86		70 - 130
Dibromofluoromethane	111		70 - 130
Toluene-d8 (Surr)	86		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230189**

Lab Sample ID: 220-15753-6
Client Matrix: Water

Date Sampled: 06/15/2011 1535
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1569.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1824			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1824				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	9.4		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230189**

Lab Sample ID: 220-15753-6
Client Matrix: Water

Date Sampled: 06/15/2011 1535
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1569.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1824			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1824				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	116		70 - 130
4-Bromofluorobenzene	88		70 - 130
Dibromofluoromethane	117		70 - 130
Toluene-d8 (Surr)	89		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230180**

Lab Sample ID: 220-15753-7
Client Matrix: Water

Date Sampled: 06/15/2011 1130
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1568.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1756			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1756				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	2.4		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230180**

Lab Sample ID: 220-15753-7
Client Matrix: Water

Date Sampled: 06/15/2011 1130
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1568.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1756			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1756				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene	88		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	88		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1246274**

Lab Sample ID: 220-15753-8
Client Matrix: Water

Date Sampled: 06/15/2011 1540
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1558.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1324			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1324				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	15		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1246274**

Lab Sample ID: 220-15753-8
Client Matrix: Water

Date Sampled: 06/15/2011 1540
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1558.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1324			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1324				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	104		70 - 130
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	105		70 - 130
Toluene-d8 (Surr)	87		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230194**

Lab Sample ID: 220-15753-9
Client Matrix: Water

Date Sampled: 06/15/2011 1545
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1559.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1351			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1351				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	3.9		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230194**

Lab Sample ID: 220-15753-9
Client Matrix: Water

Date Sampled: 06/15/2011 1545
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1559.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1351			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1351				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 130
4-Bromofluorobenzene	88		70 - 130
Dibromofluoromethane	107		70 - 130
Toluene-d8 (Surr)	87		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230193**

Lab Sample ID: 220-15753-10
Client Matrix: Water

Date Sampled: 06/15/2011 0900
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1567.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1729			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1729				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	3.9		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230193**

Lab Sample ID: 220-15753-10
Client Matrix: Water

Date Sampled: 06/15/2011 0900
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1567.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1729			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1729				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene	86		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	88		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230181**

Lab Sample ID: 220-15753-11
Client Matrix: Water

Date Sampled: 06/15/2011 1510
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1560.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1418				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	0.89		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	0.54		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230181**

Lab Sample ID: 220-15753-11
Client Matrix: Water

Date Sampled: 06/15/2011 1510
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1560.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1418			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1418				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	0.96		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	2.0		0.50
Xylenes, Total	2.0		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene	86		70 - 130
Dibromofluoromethane	109		70 - 130
Toluene-d8 (Surr)	90		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230183**

Lab Sample ID: 220-15753-12
Client Matrix: Water

Date Sampled: 06/15/2011 1425
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1565.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1634			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1634				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230183**

Lab Sample ID: 220-15753-12
Client Matrix: Water

Date Sampled: 06/15/2011 1425
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1565.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1634			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1634				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	108		70 - 130
4-Bromofluorobenzene	83		70 - 130
Dibromofluoromethane	110		70 - 130
Toluene-d8 (Surr)	87		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230185**

Lab Sample ID: 220-15753-13
Client Matrix: Water

Date Sampled: 06/15/2011 1426
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1566.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1701			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1701				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	0.68		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230185**

Lab Sample ID: 220-15753-13
Client Matrix: Water

Date Sampled: 06/15/2011 1426
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1566.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1701			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1701				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	0.51		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene	86		70 - 130
Dibromofluoromethane	111		70 - 130
Toluene-d8 (Surr)	87		70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230192**

Lab Sample ID: 220-15753-14
Client Matrix: Water

Date Sampled: 06/15/2011 1425
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1561.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1445			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1445				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND	*	1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Client Sample ID: **1230192**

Lab Sample ID: 220-15753-14
Client Matrix: Water

Date Sampled: 06/15/2011 1425
Date Received: 06/15/2011 1800

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	220-52021	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1561.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1445			Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1445				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene	88		70 - 130
Dibromofluoromethane	111		70 - 130
Toluene-d8 (Surr)	90		70 - 130

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-52021					
LCS 220-52021/2	Lab Control Sample	T	Water	8260	
LCSD 220-52021/7	Lab Control Sample Duplicate	T	Water	8260	
MB 220-52021/3	Method Blank	T	Water	8260	
220-15753-1	1230188	T	Water	8260	
220-15753-2	1246253	T	Water	8260	
220-15753-3	1230175	T	Water	8260	
220-15753-4	1230184	T	Water	8260	
220-15753-5	1246254	T	Water	8260	
220-15753-6	1230189	T	Water	8260	
220-15753-7	1230180	T	Water	8260	
220-15753-8	1246274	T	Water	8260	
220-15753-9	1230194	T	Water	8260	
220-15753-10	1230193	T	Water	8260	
220-15753-11	1230181	T	Water	8260	
220-15753-12	1230183	T	Water	8260	
220-15753-13	1230185	T	Water	8260	
220-15753-14	1230192	T	Water	8260	

Report Basis
T = Total

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Surrogate Recovery Report

8260 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
220-15753-1	1230188	116	86	119	88
220-15753-2	1246253	117	84	117	87
220-15753-3	1230175	116	87	119	88
220-15753-4	1230184	116	83	118	87
220-15753-5	1246254	109	86	111	86
220-15753-6	1230189	116	88	117	89
220-15753-7	1230180	111	88	112	88
220-15753-8	1246274	104	87	105	87
220-15753-9	1230194	105	88	107	87
220-15753-10	1230193	109	86	112	88
220-15753-11	1230181	108	86	109	90
220-15753-12	1230183	108	83	110	87
220-15753-13	1230185	110	86	111	87
220-15753-14	1230192	111	88	111	90
MB 220-52021/3		107	89	107	89
LCS 220-52021/2		87	82	91	94
LCSD 220-52021/7		89	84	91	96

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Method Blank - Batch: 220-52021

Method: 8260
Preparation: 5030B

Lab Sample ID:	MB 220-52021/3	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1557.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1256	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1256				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Method Blank - Batch: 220-52021

Method: 8260
Preparation: 5030B

Lab Sample ID:	MB 220-52021/3	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1557.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1256	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1256				
Leach Date:	N/A				

Analyte	Result	Qual	RL
4-Methyl-2-pentanone (MIBK)	ND		2.0
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107	70 - 130
4-Bromofluorobenzene	89	70 - 130
Dibromofluoromethane	107	70 - 130
Toluene-d8 (Surr)	89	70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-52021

Method: 8260
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-52021/2	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1554.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1133	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1133				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 220-52021/7	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1555.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1200	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1200				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	80	77	70 - 130	4	30		
Acrylonitrile	97	99	70 - 130	2	30		
Benzene	104	111	70 - 130	6	30		
Bromobenzene	91	96	70 - 130	4	30		
n-Butylbenzene	106	112	70 - 130	6	30		
sec-Butylbenzene	111	117	70 - 130	5	30		
tert-Butylbenzene	96	103	70 - 130	8	30		
Dichlorobromomethane	96	103	70 - 130	7	30		
Bromoform	93	98	70 - 130	6	30		
Bromomethane	99	118	70 - 130	17	30		
2-Butanone (MEK)	85	87	70 - 130	2	30		
Chlorobenzene	96	103	70 - 130	7	30		
Carbon disulfide	117	126	70 - 130	7	30		
Carbon tetrachloride	116	124	70 - 130	7	30		
Chloroethane	116	144	70 - 130	22	30		*
Chloroform	99	104	70 - 130	5	30		
Chloromethane	85	103	70 - 130	19	30		
2-Chlorotoluene	91	99	70 - 130	8	30		
4-Chlorotoluene	92	99	70 - 130	7	30		
Chlorodibromomethane	95	99	70 - 130	5	30		
1,2-Dibromo-3-Chloropropane	91	89	70 - 130	2	30		
Ethylene Dibromide	96	100	70 - 130	3	30		
Dibromomethane	92	98	70 - 130	6	30		
1,2-Dichlorobenzene	88	92	70 - 130	5	30		
1,3-Dichlorobenzene	95	100	70 - 130	5	30		
1,4-Dichlorobenzene	91	95	70 - 130	5	30		
trans-1,4-Dichloro-2-butene	96	101	70 - 130	4	30		
Dichlorodifluoromethane	81	95	70 - 130	16	30		
1,1-Dichloroethane	102	109	70 - 130	6	30		
1,2-Dichloroethane	100	104	70 - 130	4	30		
1,1-Dichloroethene	109	116	70 - 130	7	30		
cis-1,2-Dichloroethene	97	104	70 - 130	6	30		
trans-1,2-Dichloroethene	102	109	70 - 130	7	30		
1,2-Dichloropropane	94	101	70 - 130	6	30		
1,3-Dichloropropane	95	101	70 - 130	6	30		
2,2-Dichloropropane	106	112	70 - 130	5	30		

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-52021

Method: 8260
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-52021/2	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1554.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1133	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1133				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 220-52021/7	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1555.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1200	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1200				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloropropene	97	107	70 - 130	9	30		
cis-1,3-Dichloropropene	89	96	70 - 130	8	30		
trans-1,3-Dichloropropene	92	98	70 - 130	6	30		
Ethylbenzene	94	101	70 - 130	8	30		
Hexachlorobutadiene	88	88	70 - 130	0	30		
2-Hexanone	82	86	70 - 130	5	30		
Isopropylbenzene	78	85	70 - 130	8	30		
4-Isopropyltoluene	98	105	70 - 130	7	30		
Methylene Chloride	109	116	70 - 130	7	30		
4-Methyl-2-pentanone (MIBK)	88	90	70 - 130	2	30		
Methyl tert-butyl ether	93	98	70 - 130	6	30		
Naphthalene	72	71	70 - 130	1	30		
N-Propylbenzene	77	81	70 - 130	5	30		
Styrene	83	91	70 - 130	10	30		
1,1,1,2-Tetrachloroethane	100	103	70 - 130	3	30		
1,1,2,2-Tetrachloroethane	85	88	70 - 130	3	30		
Toluene	108	118	70 - 130	9	30		
Tetrachloroethene	107	111	70 - 130	3	30		
Tetrahydrofuran	85	87	70 - 130	1	30		
1,2,3-Trichlorobenzene	80	79	70 - 130	1	30		
1,2,4-Trichlorobenzene	78	78	70 - 130	0	30		
1,1,1-Trichloroethane	112	120	70 - 130	7	30		
1,1,2-Trichloroethane	97	100	70 - 130	4	30		
Trichloroethene	100	110	70 - 130	9	30		
Trichlorofluoromethane	107	130	70 - 130	20	30		
1,2,3-Trichloropropane	85	91	70 - 130	7	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	116	125	70 - 130	7	30		
1,2,4-Trimethylbenzene	100	107	70 - 130	7	30		
1,3,5-Trimethylbenzene	104	114	70 - 130	9	30		
Vinyl chloride	93	111	70 - 130	17	30		
m-Xylene & p-Xylene	106	116	70 - 130	9	30		
o-Xylene	83	88	70 - 130	6	30		
Xylenes, Total	98	107	70 - 130	8	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	89	70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	82	84	70 - 130
Dibromofluoromethane	91	91	70 - 130
Toluene-d8 (Surr)	94	96	70 - 130

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 220-52021

Method: 8260
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-52021/2	Units:	ug/L	LCSD Lab Sample ID:	LCSD 220-52021/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/17/2011 1133			Analysis Date:	06/17/2011 1200
Prep Date:	06/17/2011 1133			Prep Date:	06/17/2011 1200
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual	
Acetone	10.0	10.0	8.00	7.71	
Acrylonitrile	20.0	20.0	19.5	19.8	
Benzene	10.0	10.0	10.4	11.1	
Bromobenzene	10.0	10.0	9.14	9.55	
n-Butylbenzene	10.0	10.0	10.6	11.2	
sec-Butylbenzene	10.0	10.0	11.1	11.7	
tert-Butylbenzene	10.0	10.0	9.55	10.3	
Dichlorobromomethane	10.0	10.0	9.61	10.3	
Bromoform	10.0	10.0	9.26	9.80	
Bromomethane	10.0	10.0	9.90	11.8	
2-Butanone (MEK)	10.0	10.0	8.54	8.70	
Chlorobenzene	10.0	10.0	9.57	10.3	
Carbon disulfide	10.0	10.0	11.7	12.6	
Carbon tetrachloride	10.0	10.0	11.6	12.4	
Chloroethane	10.0	10.0	11.6	14.4	*
Chloroform	10.0	10.0	9.92	10.4	
Chloromethane	10.0	10.0	8.51	10.3	
2-Chlorotoluene	10.0	10.0	9.13	9.90	
4-Chlorotoluene	10.0	10.0	9.22	9.88	
Chlorodibromomethane	10.0	10.0	9.46	9.91	
1,2-Dibromo-3-Chloropropane	10.0	10.0	9.12	8.90	
Ethylene Dibromide	10.0	10.0	9.64	9.97	
Dibromomethane	10.0	10.0	9.22	9.81	
1,2-Dichlorobenzene	10.0	10.0	8.75	9.22	
1,3-Dichlorobenzene	10.0	10.0	9.47	10.0	
1,4-Dichlorobenzene	10.0	10.0	9.10	9.54	
trans-1,4-Dichloro-2-butene	20.0	20.0	19.3	20.1	
Dichlorodifluoromethane	10.0	10.0	8.10	9.47	
1,1-Dichloroethane	10.0	10.0	10.2	10.9	
1,2-Dichloroethane	10.0	10.0	9.97	10.4	
1,1-Dichloroethene	10.0	10.0	10.9	11.6	
cis-1,2-Dichloroethene	10.0	10.0	9.73	10.4	
trans-1,2-Dichloroethene	10.0	10.0	10.2	10.9	
1,2-Dichloropropane	10.0	10.0	9.44	10.1	
1,3-Dichloropropane	10.0	10.0	9.50	10.1	
2,2-Dichloropropane	10.0	10.0	10.6	11.2	
1,1-Dichloropropene	10.0	10.0	9.74	10.7	
cis-1,3-Dichloropropene	10.0	10.0	8.87	9.61	
trans-1,3-Dichloropropene	10.0	10.0	9.24	9.80	

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
Sdg Number:

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 220-52021

Method: 8260
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-52021/2	Units:	ug/L	LCSD Lab Sample ID:	LCSD 220-52021/7
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	06/17/2011 1133			Analysis Date:	06/17/2011 1200
Prep Date:	06/17/2011 1133			Prep Date:	06/17/2011 1200
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Ethylbenzene	10.0	10.0	9.37	10.1
Hexachlorobutadiene	10.0	10.0	8.80	8.81
2-Hexanone	10.0	10.0	8.16	8.59
Isopropylbenzene	10.0	10.0	7.84	8.50
4-Isopropyltoluene	10.0	10.0	9.77	10.5
Methylene Chloride	10.0	10.0	10.9	11.6
4-Methyl-2-pentanone (MIBK)	10.0	10.0	8.82	9.04
Methyl tert-butyl ether	10.0	10.0	9.26	9.80
Naphthalene	10.0	10.0	7.16	7.09
N-Propylbenzene	10.0	10.0	7.72	8.13
Styrene	10.0	10.0	8.29	9.14
1,1,1,2-Tetrachloroethane	10.0	10.0	9.99	10.3
1,1,2,2-Tetrachloroethane	10.0	10.0	8.53	8.83
Toluene	10.0	10.0	10.8	11.8
Tetrachloroethene	10.0	10.0	10.7	11.1
Tetrahydrofuran	20.0	20.0	17.1	17.3
1,2,3-Trichlorobenzene	10.0	10.0	7.99	7.88
1,2,4-Trichlorobenzene	10.0	10.0	7.81	7.82
1,1,1-Trichloroethane	10.0	10.0	11.2	12.0
1,1,2-Trichloroethane	10.0	10.0	9.67	10.0
Trichloroethene	10.0	10.0	10.0	11.0
Trichlorofluoromethane	10.0	10.0	10.7	13.0
1,2,3-Trichloropropane	10.0	10.0	8.53	9.13
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.0	11.6	12.5
1,2,4-Trimethylbenzene	10.0	10.0	9.98	10.7
1,3,5-Trimethylbenzene	10.0	10.0	10.4	11.4
Vinyl chloride	10.0	10.0	9.33	11.1
m-Xylene & p-Xylene	20.0	20.0	21.2	23.2
o-Xylene	10.0	10.0	8.26	8.79
Xylenes, Total	30.0	30.0	29.5	32.0

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15753-1
Sdg Number:

Method Blank - Batch: 220-52021

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 220-52021/3	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1557.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1256	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1256				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15753-1
Sdg Number:

Method Blank - Batch: 220-52021

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 220-52021/3	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1557.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1256	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1256				
Leach Date:	N/A				

Analyte	Result	Qual	RL
4-Methyl-2-pentanone (MIBK)	ND		2.0
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107	70 - 130
4-Bromofluorobenzene	89	70 - 130
Dibromofluoromethane	107	70 - 130
Toluene-d8 (Surr)	89	70 - 130

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15753-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-52021

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-52021/2	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1554.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1133	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1133				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 220-52021/7	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1555.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1200	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1200				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	80	77	70 - 130	4	30		
Acrylonitrile	97	99	70 - 130	2	30		
Benzene	104	111	70 - 130	6	30		
Bromobenzene	91	96	70 - 130	4	30		
n-Butylbenzene	106	112	70 - 130	6	30		
sec-Butylbenzene	111	117	70 - 130	5	30		
tert-Butylbenzene	96	103	70 - 130	8	30		
Dichlorobromomethane	96	103	70 - 130	7	30		
Bromoform	93	98	70 - 130	6	30		
Bromomethane	99	118	70 - 130	17	30		
2-Butanone (MEK)	85	87	70 - 130	2	30		
Chlorobenzene	96	103	70 - 130	7	30		
Carbon disulfide	117	126	70 - 130	7	30		
Carbon tetrachloride	116	124	70 - 130	7	30		
Chloroethane	116	144	70 - 130	22	30		*
Chloroform	99	104	70 - 130	5	30		
Chloromethane	85	103	70 - 130	19	30		
2-Chlorotoluene	91	99	70 - 130	8	30		
4-Chlorotoluene	92	99	70 - 130	7	30		
Chlorodibromomethane	95	99	70 - 130	5	30		
1,2-Dibromo-3-Chloropropane	91	89	70 - 130	2	30		
Ethylene Dibromide	96	100	70 - 130	3	30		
Dibromomethane	92	98	70 - 130	6	30		
1,2-Dichlorobenzene	88	92	70 - 130	5	30		
1,3-Dichlorobenzene	95	100	70 - 130	5	30		
1,4-Dichlorobenzene	91	95	70 - 130	5	30		
trans-1,4-Dichloro-2-butene	96	101	70 - 130	4	30		
Dichlorodifluoromethane	81	95	70 - 130	16	30		
1,1-Dichloroethane	102	109	70 - 130	6	30		
1,2-Dichloroethane	100	104	70 - 130	4	30		
1,1-Dichloroethene	109	116	70 - 130	7	30		
cis-1,2-Dichloroethene	97	104	70 - 130	6	30		
trans-1,2-Dichloroethene	102	109	70 - 130	7	30		
1,2-Dichloropropane	94	101	70 - 130	6	30		
1,3-Dichloropropane	95	101	70 - 130	6	30		

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15753-1
Sdg Number:

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-52021

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-52021/2	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1554.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1133	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1133				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 220-52021/7	Analysis Batch:	220-52021	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1555.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/17/2011 1200	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/17/2011 1200				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,2-Dichloropropane	106	112	70 - 130	5	30		
1,1-Dichloropropene	97	107	70 - 130	9	30		
cis-1,3-Dichloropropene	89	96	70 - 130	8	30		
trans-1,3-Dichloropropene	92	98	70 - 130	6	30		
Ethylbenzene	94	101	70 - 130	8	30		
Hexachlorobutadiene	88	88	70 - 130	0	30		
2-Hexanone	82	86	70 - 130	5	30		
Isopropylbenzene	78	85	70 - 130	8	30		
4-Isopropyltoluene	98	105	70 - 130	7	30		
Methylene Chloride	109	116	70 - 130	7	30		
4-Methyl-2-pentanone (MIBK)	88	90	70 - 130	2	30		
Methyl tert-butyl ether	93	98	70 - 130	6	30		
Naphthalene	72	71	70 - 130	1	30		
N-Propylbenzene	77	81	70 - 130	5	30		
Styrene	83	91	70 - 130	10	30		
1,1,1,2-Tetrachloroethane	100	103	70 - 130	3	30		
1,1,2,2-Tetrachloroethane	85	88	70 - 130	3	30		
Toluene	108	118	70 - 130	9	30		
Tetrachloroethene	107	111	70 - 130	3	30		
Tetrahydrofuran	85	87	70 - 130	1	30		
1,2,3-Trichlorobenzene	80	79	70 - 130	1	30		
1,2,4-Trichlorobenzene	78	78	70 - 130	0	30		
1,1,1-Trichloroethane	112	120	70 - 130	7	30		
1,1,2-Trichloroethane	97	100	70 - 130	4	30		
Trichloroethene	100	110	70 - 130	9	30		
Trichlorofluoromethane	107	130	70 - 130	20	30		
1,2,3-Trichloropropane	85	91	70 - 130	7	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	116	125	70 - 130	7	30		
1,2,4-Trimethylbenzene	100	107	70 - 130	7	30		
1,3,5-Trimethylbenzene	104	114	70 - 130	9	30		
Vinyl chloride	93	111	70 - 130	17	30		
m-Xylene & p-Xylene	106	116	70 - 130	9	30		
o-Xylene	83	88	70 - 130	6	30		
Xylenes, Total	98	107	70 - 130	8	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15753-1
Sdg Number:

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	89	70 - 130
4-Bromofluorobenzene	82	84	70 - 130
Dibromofluoromethane	91	91	70 - 130
Toluene-d8 (Surr)	94	96	70 - 130

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: LC, JM, JC	TAT Required (business days): Standard	Lab PM/Contact: Jill Duhancik	COC Number: 19857
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only): 15753	Page 1 of 2
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [✓] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only): Probe 0c/0c	
Phone: 860-747-6181	WO #:			
Email:	Project #: 61SL902.003	State Regulatory QC Criteria Requirements: CT RCPs + RSRs	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL, CT	SSOW#:			

Sample Identification - Client ID (Lab ID)

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	8260 RCP CT RCP Compound List								Comments
1	1230188	6/15/11	1110	Aq	No				3				X								
2	1230188a		1520						3				X								
3	1230188b		1525						3				X								
4	1230184		1056						3				X								
5	1230184a		1530						3				X								
6	1230184b		1535						3				X								
7	1230180		1130						3				X								
8	1230180a		1540						3				X								
9	1230180b		1545						3				X								
10	1230193	6/15/11	0900	Aq	No				3				X								

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/15/11 1622	LEA	[signature]	6/15/11 1622	TAC
[signature]	6/15/11 1757	TAC	[signature]	6-15-11 1800	

Comments: GA Area

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: LC, JM, JC	TAT Required (business days): Standard	Lab PM/Contact: Jill Duhareik	COC Number: 19858
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only): 15753	Page 2 of 2
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [✓] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only): Probed 0.1°C	
Phone: 860-747-6181	WO #:			
Email:	Project #: 615L902.003	State Regulatory QC Criteria Requirements: CT RCPs + RSRs	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL, CT	SSOW#:			

Samples shipped to TestAmerica within holding time? Y/N

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	8260 RCP CT RCP Compound List								Comments
1	1230181	6/15/11	1510	Aq	No				3				X								
2	1230183	↓	1425	↓	↓				3				X								
3	1230185	↓	1426	↓	↓				3				X								
4	1230192	6/15/11	1425	Aq	No				3				X								

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/15/11 1622	LEA	[signature]	6/15/11 1622	TACT
[signature]	6/15/11 1757	TACT	[signature]	6-15-11 1800	

Comments: GA Area

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 220-15753-1
SDG Number:

Login Number: 15753
List Number: 1
Creator: Teixeira, Maria L

List Source: TestAmerica Connecticut

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.1c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 220-15754-1

Job Description: UTC-Old Southington Landfill

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trazski

Approved for release.
Joan Widomski
Project Manager I
6/23/2011 3:26 PM

Designee for
Jill M Duhancik
Project Manager II
jill.duhancik@testamericainc.com
06/23/2011

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Burlington**	***Client:***	**Loureiro Engineering Assoc.**
Project Location:	**Old Southington Landfill**	***Project Number:***	**220-15754**
Laboratory Sample ID (s):	**220-15754-1 to 220-15754-4**	***Sampling Date (s):***	**6/15/11**
RCP Method:	**TO-15**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6℃)?	Yes	N/A √	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes √		No
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes √		No
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes		No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes		No √
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ Position: Project Manager

Printed Name: Don Dawicki Date: 6/23/11 0:00

The certification form has been electronically signed and approved.

Updated November 2007

CTDEP PH-0751

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Tel:(802)660-1990
Fax:(802)660-1919

Job Narrative
220-15754-1

Comments
No additional comments.

Receipt
All analyses listed in this report comply with the UTC, Analytical Minimum Standards for Laboratories- June 2008, Rev 4'.

All other samples were received in good condition within temperature requirements.

Air Toxics
Method(s) TO-15: The following sample(s) was diluted due to the abundance of non-target analytes: 1-chloro-1,1-difluoroethane. Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Laboratory Chronicle

Lab ID: 220-15754-1 **Client ID: 1230176**

Sample Date/Time: 06/15/2011 14:31 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	220-15754-A-1		200-19919		06/20/2011 20:26	20	TAL BUR	PAD
A:TO-15	220-15754-A-1		200-19919		06/20/2011 20:26	20	TAL BUR	PAD

Lab ID: 220-15754-2 **Client ID: 1230177**

Sample Date/Time: 06/15/2011 14:32 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	220-15754-A-2		200-19919		06/20/2011 21:18	10	TAL BUR	PAD
A:TO-15	220-15754-A-2		200-19919		06/20/2011 21:18	10	TAL BUR	PAD

Lab ID: 220-15754-3 **Client ID: 1230178**

Sample Date/Time: 06/15/2011 14:55 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	220-15754-A-3		200-19919		06/20/2011 22:10	1	TAL BUR	PAD
A:TO-15	220-15754-A-3		200-19919		06/20/2011 22:10	1	TAL BUR	PAD

Lab ID: 220-15754-4 **Client ID: 1230179**

Sample Date/Time: 06/15/2011 14:56 Received Date/Time: 06/15/2011 18:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	220-15754-A-4		200-19919		06/20/2011 23:03	1	TAL BUR	PAD
A:TO-15	220-15754-A-4		200-19919		06/20/2011 23:03	1	TAL BUR	PAD

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-19919/4		200-19919		06/20/2011 10:48	1	TAL BUR	PAD
A:TO-15	MB 200-19919/4		200-19919		06/20/2011 10:48	1	TAL BUR	PAD

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-19919/3		200-19919		06/20/2011 09:58	1	TAL BUR	PAD
A:TO-15	LCS 200-19919/3		200-19919		06/20/2011 09:58	1	TAL BUR	PAD

Lab References:
TAL BUR = TestAmerica Burlington

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Method	Analyst	Analyst ID
EPA TO-15	Daigle, Paul A	PAD

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-15754-1	1230176	Air	06/15/2011 1431	06/15/2011 1800
220-15754-2	1230177	Air	06/15/2011 1432	06/15/2011 1800
220-15754-3	1230178	Air	06/15/2011 1455	06/15/2011 1800
220-15754-4	1230179	Air	06/15/2011 1456	06/15/2011 1800

SAMPLE RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230176

Lab Sample ID: 220-15754-1 Date Sampled: 06/15/2011 1431
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq015.d
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	06/20/2011 2026			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2026			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Acetone	100	U	100
Benzene	4.0	U	4.0
Bromodichloromethane	4.0	U	4.0
Bromoform	4.0	U	4.0
Carbon tetrachloride	4.0	U	4.0
Chlorobenzene	4.0	U	4.0
Chloroethane	10	U	10
Chloroform	4.0	U	4.0
Chloromethane	10	U	10
cis-1,2-Dichloroethene	4.0	U	4.0
cis-1,3-Dichloropropene	4.0	U	4.0
Isopropylbenzene	4.0	U	4.0
1,2-Dibromoethane	4.0	U	4.0
1,2-Dichlorobenzene	4.0	U	4.0
1,3-Dichlorobenzene	4.0	U	4.0
1,4-Dichlorobenzene	4.0	U	4.0
Dichlorodifluoromethane	10	U	10
1,1-Dichloroethane	4.0	U	4.0
1,2-Dichloroethane	4.0	U	4.0
1,1-Dichloroethene	4.0	U	4.0
1,2-Dichloropropane	4.0	U	4.0
Ethylbenzene	4.0	U	4.0
4-Isopropyltoluene	4.0	U	4.0
Methylene Chloride	10	U	10
2-Butanone (MEK)	10	U	10
4-Methyl-2-pentanone (MIBK)	10	U	10
Methyl tert-butyl ether	4.0	U	4.0
m,p-Xylene	10	U	10
n-Butylbenzene	4.0	U	4.0
sec-Butylbenzene	4.0	U	4.0
Styrene	4.0	U	4.0
1,1,2,2-Tetrachloroethane	4.0	U	4.0
Tetrachloroethene	4.0	U	4.0
Toluene	6.9		4.0
trans-1,2-Dichloroethene	4.0	U	4.0
trans-1,3-Dichloropropene	4.0	U	4.0
1,1,1-Trichloroethane	4.0	U	4.0
1,1,2-Trichloroethane	4.0	U	4.0
Trichloroethene	4.0	U	4.0
Trichlorofluoromethane	5.5		4.0
1,2,4-Trimethylbenzene	4.0	U	4.0
1,3,5-Trimethylbenzene	4.0	U	4.0
Vinyl chloride	4.0	U	4.0
o-Xylene	4.0	U	4.0
Xylene (total)	7.0		4.0
Dibromochloromethane	4.0	U	4.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230176

Lab Sample ID: 220-15754-1 Date Sampled: 06/15/2011 1431
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq015.d
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	06/20/2011 2026			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2026			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Acetone	240	U	240
Benzene	13	U	13
Bromodichloromethane	27	U	27
Bromoform	41	U	41
Carbon tetrachloride	25	U	25
Chlorobenzene	18	U	18
Chloroethane	26	U	26
Chloroform	20	U	20
Chloromethane	21	U	21
cis-1,2-Dichloroethene	16	U	16
cis-1,3-Dichloropropene	18	U	18
Isopropylbenzene	20	U	20
1,2-Dibromoethane	31	U	31
1,2-Dichlorobenzene	24	U	24
1,3-Dichlorobenzene	24	U	24
1,4-Dichlorobenzene	24	U	24
Dichlorodifluoromethane	49	U	49
1,1-Dichloroethane	16	U	16
1,2-Dichloroethane	16	U	16
1,1-Dichloroethene	16	U	16
1,2-Dichloropropane	18	U	18
Ethylbenzene	17	U	17
4-Isopropyltoluene	22	U	22
Methylene Chloride	35	U	35
2-Butanone (MEK)	29	U	29
4-Methyl-2-pentanone (MIBK)	41	U	41
Methyl tert-butyl ether	14	U	14
m,p-Xylene	43	U	43
n-Butylbenzene	22	U	22
sec-Butylbenzene	22	U	22
Styrene	17	U	17
1,1,2,2-Tetrachloroethane	27	U	27
Tetrachloroethene	27	U	27
Toluene	26		15
trans-1,2-Dichloroethene	16	U	16
trans-1,3-Dichloropropene	18	U	18
1,1,1-Trichloroethane	22	U	22
1,1,2-Trichloroethane	22	U	22
Trichloroethene	21	U	21
Trichlorofluoromethane	31		22
1,2,4-Trimethylbenzene	20	U	20
1,3,5-Trimethylbenzene	20	U	20
Vinyl chloride	10	U	10
o-Xylene	17	U	17
Xylene (total)	31		17
Dibromochloromethane	34	U	34

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: **1230176**

Lab Sample ID: 220-15754-1 Date Sampled: 06/15/2011 1431
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq015.d
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	06/20/2011 2026			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2026			Injection Volume:	200 mL

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: **1230176**

Lab Sample ID: 220-15754-1 Date Sampled: 06/15/2011 1431
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq015.d
Dilution:	20			Initial Weight/Volume:	10 mL
Analysis Date:	06/20/2011 2026			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2026			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: **1230177**

Lab Sample ID: 220-15754-2 Date Sampled: 06/15/2011 1432
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq016.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	06/20/2011 2118			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2118			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Acetone	50	U	50
Benzene	2.0	U	2.0
Bromodichloromethane	2.0	U	2.0
Bromoform	2.0	U	2.0
Carbon tetrachloride	2.0	U	2.0
Chlorobenzene	2.0	U	2.0
Chloroethane	5.0	U	5.0
Chloroform	2.0	U	2.0
Chloromethane	5.0	U	5.0
cis-1,2-Dichloroethene	2.0	U	2.0
cis-1,3-Dichloropropene	2.0	U	2.0
Isopropylbenzene	2.0	U	2.0
1,2-Dibromoethane	2.0	U	2.0
1,2-Dichlorobenzene	2.0	U	2.0
1,3-Dichlorobenzene	2.0	U	2.0
1,4-Dichlorobenzene	3.5		2.0
Dichlorodifluoromethane	5.0	U	5.0
1,1-Dichloroethane	2.5		2.0
1,2-Dichloroethane	2.0	U	2.0
1,1-Dichloroethene	2.0	U	2.0
1,2-Dichloropropane	2.0	U	2.0
Ethylbenzene	2.0	U	2.0
4-Isopropyltoluene	2.0	U	2.0
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	5.0	U	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Methyl tert-butyl ether	2.0	U	2.0
m,p-Xylene	5.0	U	5.0
n-Butylbenzene	2.0	U	2.0
sec-Butylbenzene	2.0	U	2.0
Styrene	2.0	U	2.0
1,1,2,2-Tetrachloroethane	2.0	U	2.0
Tetrachloroethene	2.9		2.0
Toluene	4.8		2.0
trans-1,2-Dichloroethene	2.0	U	2.0
trans-1,3-Dichloropropene	2.0	U	2.0
1,1,1-Trichloroethane	9.1		2.0
1,1,2-Trichloroethane	2.0	U	2.0
Trichloroethene	2.0	U	2.0
Trichlorofluoromethane	6.2		2.0
1,2,4-Trimethylbenzene	2.5		2.0
1,3,5-Trimethylbenzene	2.0	U	2.0
Vinyl chloride	2.0	U	2.0
o-Xylene	2.0	U	2.0
Xylene (total)	5.4		2.0
Dibromochloromethane	2.0	U	2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230177

Lab Sample ID: 220-15754-2 Date Sampled: 06/15/2011 1432
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq016.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	06/20/2011 2118			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2118			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Acetone	120	U	120
Benzene	6.4	U	6.4
Bromodichloromethane	13	U	13
Bromoform	21	U	21
Carbon tetrachloride	13	U	13
Chlorobenzene	9.2	U	9.2
Chloroethane	13	U	13
Chloroform	9.8	U	9.8
Chloromethane	10	U	10
cis-1,2-Dichloroethene	7.9	U	7.9
cis-1,3-Dichloropropene	9.1	U	9.1
Isopropylbenzene	9.8	U	9.8
1,2-Dibromoethane	15	U	15
1,2-Dichlorobenzene	12	U	12
1,3-Dichlorobenzene	12	U	12
1,4-Dichlorobenzene	21		12
Dichlorodifluoromethane	25	U	25
1,1-Dichloroethane	10		8.1
1,2-Dichloroethane	8.1	U	8.1
1,1-Dichloroethene	7.9	U	7.9
1,2-Dichloropropane	9.2	U	9.2
Ethylbenzene	8.7	U	8.7
4-Isopropyltoluene	11	U	11
Methylene Chloride	17	U	17
2-Butanone (MEK)	15	U	15
4-Methyl-2-pentanone (MIBK)	20	U	20
Methyl tert-butyl ether	7.2	U	7.2
m,p-Xylene	22	U	22
n-Butylbenzene	11	U	11
sec-Butylbenzene	11	U	11
Styrene	8.5	U	8.5
1,1,2,2-Tetrachloroethane	14	U	14
Tetrachloroethene	20		14
Toluene	18		7.5
trans-1,2-Dichloroethene	7.9	U	7.9
trans-1,3-Dichloropropene	9.1	U	9.1
1,1,1-Trichloroethane	50		11
1,1,2-Trichloroethane	11	U	11
Trichloroethene	11	U	11
Trichlorofluoromethane	35		11
1,2,4-Trimethylbenzene	12		9.8
1,3,5-Trimethylbenzene	9.8	U	9.8
Vinyl chloride	5.1	U	5.1
o-Xylene	8.7	U	8.7
Xylene (total)	23		8.7
Dibromochloromethane	17	U	17

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230177

Lab Sample ID: 220-15754-2 Date Sampled: 06/15/2011 1432
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq016.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	06/20/2011 2118			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2118			Injection Volume:	200 mL

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: **1230177**

Lab Sample ID: 220-15754-2 Date Sampled: 06/15/2011 1432
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq016.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	06/20/2011 2118			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2118			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230178

Lab Sample ID: 220-15754-3 Date Sampled: 06/15/2011 1455
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 2210			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2210			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Acetone	12		5.0
Benzene	0.28		0.20
Bromodichloromethane	0.20	U	0.20
Bromoform	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Chloroethane	0.50	U	0.50
Chloroform	0.20	U	0.20
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
Isopropylbenzene	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.92		0.20
1,4-Dichlorobenzene	5.8		0.20
Dichlorodifluoromethane	0.72		0.50
1,1-Dichloroethane	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Ethylbenzene	0.87		0.20
4-Isopropyltoluene	0.20	U	0.20
Methylene Chloride	0.50	U	0.50
2-Butanone (MEK)	1.0		0.50
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
m,p-Xylene	3.2		0.50
n-Butylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
Styrene	0.26		0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Toluene	4.0		0.20
trans-1,2-Dichloroethene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Trichloroethene	1.0		0.20
Trichlorofluoromethane	0.33		0.20
1,2,4-Trimethylbenzene	1.5		0.20
1,3,5-Trimethylbenzene	0.39		0.20
Vinyl chloride	0.20	U	0.20
o-Xylene	1.0		0.20
Xylene (total)	4.2		0.20
Dibromochloromethane	0.20	U	0.20

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230178

Lab Sample ID: 220-15754-3 Date Sampled: 06/15/2011 1455
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 2210			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2210			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Acetone	29		12
Benzene	0.90		0.64
Bromodichloromethane	1.3	U	1.3
Bromoform	2.1	U	2.1
Carbon tetrachloride	1.3	U	1.3
Chlorobenzene	0.92	U	0.92
Chloroethane	1.3	U	1.3
Chloroform	0.98	U	0.98
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	0.79	U	0.79
cis-1,3-Dichloropropene	0.91	U	0.91
Isopropylbenzene	0.98	U	0.98
1,2-Dibromoethane	1.5	U	1.5
1,2-Dichlorobenzene	1.2	U	1.2
1,3-Dichlorobenzene	5.6		1.2
1,4-Dichlorobenzene	35		1.2
Dichlorodifluoromethane	3.6		2.5
1,1-Dichloroethane	0.81	U	0.81
1,2-Dichloroethane	0.81	U	0.81
1,1-Dichloroethene	0.79	U	0.79
1,2-Dichloropropane	0.92	U	0.92
Ethylbenzene	3.8		0.87
4-Isopropyltoluene	1.1	U	1.1
Methylene Chloride	1.7	U	1.7
2-Butanone (MEK)	3.0		1.5
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0
Methyl tert-butyl ether	0.72	U	0.72
m,p-Xylene	14		2.2
n-Butylbenzene	1.1	U	1.1
sec-Butylbenzene	1.1	U	1.1
Styrene	1.1		0.85
1,1,2,2-Tetrachloroethane	1.4	U	1.4
Tetrachloroethene	1.4	U	1.4
Toluene	15		0.75
trans-1,2-Dichloroethene	0.79	U	0.79
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,1-Trichloroethane	1.1	U	1.1
1,1,2-Trichloroethane	1.1	U	1.1
Trichloroethene	5.4		1.1
Trichlorofluoromethane	1.9		1.1
1,2,4-Trimethylbenzene	7.2		0.98
1,3,5-Trimethylbenzene	1.9		0.98
Vinyl chloride	0.51	U	0.51
o-Xylene	4.5		0.87
Xylene (total)	18		0.87
Dibromochloromethane	1.7	U	1.7

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230178

Lab Sample ID: 220-15754-3 Date Sampled: 06/15/2011 1455
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 2210			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2210			Injection Volume:	200 mL

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: **1230178**

Lab Sample ID: 220-15754-3 Date Sampled: 06/15/2011 1455
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 2210			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2210			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230179

Lab Sample ID: 220-15754-4 Date Sampled: 06/15/2011 1456
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq018.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 2303			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2303			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Acetone	8.3		5.0
Benzene	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
Bromoform	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Chloroethane	0.50	U	0.50
Chloroform	0.20	U	0.20
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
Isopropylbenzene	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.61		0.20
1,4-Dichlorobenzene	4.0		0.20
Dichlorodifluoromethane	0.67		0.50
1,1-Dichloroethane	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Ethylbenzene	0.37		0.20
4-Isopropyltoluene	0.20	U	0.20
Methylene Chloride	0.50	U	0.50
2-Butanone (MEK)	0.76		0.50
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
m,p-Xylene	1.4		0.50
n-Butylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
Styrene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Toluene	1.4		0.20
trans-1,2-Dichloroethene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
Trichlorofluoromethane	0.31		0.20
1,2,4-Trimethylbenzene	0.79		0.20
1,3,5-Trimethylbenzene	0.20		0.20
Vinyl chloride	0.20	U	0.20
o-Xylene	0.44		0.20
Xylene (total)	1.8		0.20
Dibromochloromethane	0.20	U	0.20

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: **1230179**

Lab Sample ID: 220-15754-4 Date Sampled: 06/15/2011 1456
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq018.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 2303			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2303			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Acetone	20		12
Benzene	0.64	U	0.64
Bromodichloromethane	1.3	U	1.3
Bromoform	2.1	U	2.1
Carbon tetrachloride	1.3	U	1.3
Chlorobenzene	0.92	U	0.92
Chloroethane	1.3	U	1.3
Chloroform	0.98	U	0.98
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	0.79	U	0.79
cis-1,3-Dichloropropene	0.91	U	0.91
Isopropylbenzene	0.98	U	0.98
1,2-Dibromoethane	1.5	U	1.5
1,2-Dichlorobenzene	1.2	U	1.2
1,3-Dichlorobenzene	3.7		1.2
1,4-Dichlorobenzene	24		1.2
Dichlorodifluoromethane	3.3		2.5
1,1-Dichloroethane	0.81	U	0.81
1,2-Dichloroethane	0.81	U	0.81
1,1-Dichloroethene	0.79	U	0.79
1,2-Dichloropropane	0.92	U	0.92
Ethylbenzene	1.6		0.87
4-Isopropyltoluene	1.1	U	1.1
Methylene Chloride	1.7	U	1.7
2-Butanone (MEK)	2.3		1.5
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0
Methyl tert-butyl ether	0.72	U	0.72
m,p-Xylene	6.0		2.2
n-Butylbenzene	1.1	U	1.1
sec-Butylbenzene	1.1	U	1.1
Styrene	0.85	U	0.85
1,1,2,2-Tetrachloroethane	1.4	U	1.4
Tetrachloroethene	1.4	U	1.4
Toluene	5.2		0.75
trans-1,2-Dichloroethene	0.79	U	0.79
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,1-Trichloroethane	1.1	U	1.1
1,1,2-Trichloroethane	1.1	U	1.1
Trichloroethene	1.1	U	1.1
Trichlorofluoromethane	1.8		1.1
1,2,4-Trimethylbenzene	3.9		0.98
1,3,5-Trimethylbenzene	1.0		0.98
Vinyl chloride	0.51	U	0.51
o-Xylene	1.9		0.87
Xylene (total)	7.9		0.87
Dibromochloromethane	1.7	U	1.7

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230179

Lab Sample ID: 220-15754-4 Date Sampled: 06/15/2011 1456
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq018.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 2303			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2303			Injection Volume:	200 mL

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Client Sample ID: 1230179

Lab Sample ID: 220-15754-4 Date Sampled: 06/15/2011 1456
Client Matrix: Air Date Received: 06/15/2011 1800

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-19919	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkcq018.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 2303			Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 2303			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-19919					
LCS 200-19919/3	Lab Control Sample	T	Air	TO-15	
MB 200-19919/4	Method Blank	T	Air	TO-15	
220-15754-1	1230176	T	Air	TO-15	
220-15754-2	1230177	T	Air	TO-15	
220-15754-3	1230178	T	Air	TO-15	
220-15754-4	1230179	T	Air	TO-15	

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Method Blank - Batch: 200-19919

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-19919/4	Analysis Batch:	200-19919	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkcq004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 1048	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 1048			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Acetone	5.0	U	5.0
Benzene	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
Bromoform	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Chloroethane	0.50	U	0.50
Chloroform	0.20	U	0.20
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
Isopropylbenzene	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Dichlorodifluoromethane	0.50	U	0.50
1,1-Dichloroethane	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
Methylene Chloride	0.50	U	0.50
2-Butanone (MEK)	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
n-Butylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
Styrene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Toluene	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
Trichlorofluoromethane	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
Vinyl chloride	0.20	U	0.20
o-Xylene	0.20	U	0.20
Xylene (total)	0.20	U	0.20

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15754-1

Method Blank - Batch: 200-19919

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-19919/4	Analysis Batch:	200-19919	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkcq004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 1048	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 1048			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dibromochloromethane	0.20	U	0.20

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Method Blank - Batch: 200-19919

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-19919/4	Analysis Batch:	200-19919	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkcq004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 1048	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 1048			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Acetone	12	U	12
Benzene	0.64	U	0.64
Bromodichloromethane	1.3	U	1.3
Bromoform	2.1	U	2.1
Carbon tetrachloride	1.3	U	1.3
Chlorobenzene	0.92	U	0.92
Chloroethane	1.3	U	1.3
Chloroform	0.98	U	0.98
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	0.79	U	0.79
cis-1,3-Dichloropropene	0.91	U	0.91
Isopropylbenzene	0.98	U	0.98
1,2-Dibromoethane	1.5	U	1.5
1,2-Dichlorobenzene	1.2	U	1.2
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Dichlorodifluoromethane	2.5	U	2.5
1,1-Dichloroethane	0.81	U	0.81
1,2-Dichloroethane	0.81	U	0.81
1,1-Dichloroethene	0.79	U	0.79
1,2-Dichloropropane	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
4-Isopropyltoluene	1.1	U	1.1
Methylene Chloride	1.7	U	1.7
2-Butanone (MEK)	1.5	U	1.5
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0
Methyl tert-butyl ether	0.72	U	0.72
m,p-Xylene	2.2	U	2.2
n-Butylbenzene	1.1	U	1.1
sec-Butylbenzene	1.1	U	1.1
Styrene	0.85	U	0.85
1,1,2,2-Tetrachloroethane	1.4	U	1.4
Tetrachloroethene	1.4	U	1.4
Toluene	0.75	U	0.75
trans-1,2-Dichloroethene	0.79	U	0.79
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,1-Trichloroethane	1.1	U	1.1
1,1,2-Trichloroethane	1.1	U	1.1
Trichloroethene	1.1	U	1.1
Trichlorofluoromethane	1.1	U	1.1
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
Vinyl chloride	0.51	U	0.51
o-Xylene	0.87	U	0.87
Xylene (total)	0.87	U	0.87

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15754-1

Method Blank - Batch: 200-19919

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-19919/4	Analysis Batch:	200-19919	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkcq004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 1048	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 1048			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dibromochloromethane	1.7	U	1.7

Method Blank TICs- Batch: 200-19919

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Lab Control Sample - Batch: 200-19919

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-19919/3	Analysis Batch:	200-19919	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkcq003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 0958	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 0958			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	10.0	11.9	119	70 - 130	
Benzene	10.0	10.8	108	70 - 130	
Bromodichloromethane	10.0	11.4	114	70 - 130	
Bromoform	10.0	11.7	117	70 - 130	
Carbon tetrachloride	10.0	10.9	109	70 - 130	
Chlorobenzene	10.0	10.3	103	70 - 130	
Chloroethane	10.0	10.9	109	70 - 130	
Chloroform	10.0	10.6	107	70 - 130	
Chloromethane	10.0	10.7	107	70 - 130	
cis-1,2-Dichloroethene	10.0	11.0	110	70 - 130	
cis-1,3-Dichloropropene	10.0	11.3	113	70 - 130	
Isopropylbenzene	10.0	11.2	112	70 - 130	
1,2-Dibromoethane	10.0	10.7	107	70 - 130	
1,2-Dichlorobenzene	10.0	9.96	100	70 - 130	
1,3-Dichlorobenzene	10.0	10.3	103	70 - 130	
1,4-Dichlorobenzene	10.0	10.6	106	70 - 130	
Dichlorodifluoromethane	10.0	10.8	108	70 - 130	
1,1-Dichloroethane	10.0	10.7	107	70 - 130	
1,2-Dichloroethane	10.0	11.2	112	70 - 130	
1,1-Dichloroethene	10.0	11.8	118	70 - 130	
1,2-Dichloropropane	10.0	10.9	109	70 - 130	
Ethylbenzene	10.0	10.7	107	70 - 130	
4-Isopropyltoluene	10.0	11.3	113	70 - 130	
Methylene Chloride	10.0	11.7	117	70 - 130	
2-Butanone (MEK)	10.0	10.8	108	70 - 130	
4-Methyl-2-pentanone (MIBK)	10.0	12.0	120	70 - 130	
Methyl tert-butyl ether	10.0	11.1	111	70 - 130	
m,p-Xylene	20.0	21.9	109	70 - 130	
n-Butylbenzene	10.0	11.2	112	70 - 130	
sec-Butylbenzene	10.0	10.9	109	70 - 130	
Styrene	10.0	11.1	111	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	10.3	103	70 - 130	
Tetrachloroethene	10.0	10.7	107	70 - 130	
Toluene	10.0	10.8	108	70 - 130	
trans-1,2-Dichloroethene	10.0	11.1	111	70 - 130	
trans-1,3-Dichloropropene	10.0	11.2	112	70 - 130	
1,1,1-Trichloroethane	10.0	11.0	110	70 - 130	
1,1,2-Trichloroethane	10.0	10.3	103	70 - 130	
Trichloroethene	10.0	10.9	109	70 - 130	
Trichlorofluoromethane	10.0	10.5	105	70 - 130	
1,2,4-Trimethylbenzene	10.0	10.6	106	70 - 130	

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15754-1

Lab Control Sample - Batch: 200-19919

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-19919/3	Analysis Batch:	200-19919	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkcq003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	06/20/2011 0958	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	06/20/2011 0958			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3,5-Trimethylbenzene	10.0	10.7	107	70 - 130	
Vinyl chloride	10.0	10.8	108	70 - 130	
o-Xylene	10.0	10.8	108	70 - 130	
Dibromochloromethane	10.0	11.6	116	70 - 130	

Post-Sampling Air Canister Pressure Check Record

Client ID	Job	Date	Time (Military)	Lab BP ("Hg)	Lab Temp (°C)	Pressure Gague ID	Analyst
Loureiro	220-15754	6/20/11	0851	29.5	22	G5	WND

Sampling Information and Return Equipment Check	Yes	No	Comments
(1) Is a Field Test Data Sheet (FTDS) or similar sampling documentation present?	✓		
(2) Is the flow controller ID used for each canister recorded?	✓		
(3) Is visible sign of damage to canister and/or flow controller (FC) present?		✓	
If damage observed, list equipment IDs and describe condition:			

Post-Sampling Return Pressure Check

Lab ID	Canister ID	Pressure[1] ("Hg)	Anomaly[2] (Y/N)	FC ID[3]	FC Return (Y/N)	Can Cert Batch ID	Comments
1	4369	-6.2	N	3175	Y	3090 CJUL	6 in FC.
2	4443	-5.0	|	3479	|	3266 GFIR	|
3	3225	-9.3	|	5182	|	4067 BKCL	|
4	5043	-9.4	|	5184	|	4942 CJUL	|

[1] Criteria: Return Pressure should be between -1 and -10 ("Hg)

[2] If return pressure is not within criteria, initiate anomaly report.

[3] Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

Internal Use Only: Flow Controller Date and Page # 45/67

BR-FAI033.08.04.10:6
06/23/2011
TestAmerica

GC/MS INSTRUMENT RUN LOG

Sequence			Standard Traceability	Instrument Information
Batch ID: BKC	Start Date: 5/17/11	Time: 1346	ISTD Lot #: 84580	Instrument ID: B
Test Method: TO15	End Date: 5/18/11	Time: 1346	CAL STD Lot # see comments	Instrument: 5973
ICAL Date: 5/17/11			ICV / LCS Lot # See comments	Column Type: RTX-624

	Manager	Analyst	Analyst	Analyst	Analyst
Name/Initial					
Signature					

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
1346	BKC 001	N/A	BFB	N/A	—	—	PAD	N/A	✓	PAD	
1436	002	4635	VI BLK		1	200		✓	✓		
1528	003	5292	Level 1		2			N/A	✓		132519
1620	004	2969	Level 2		3				✓		132518
1713	005	3503	Level 3		4				✓		132508
1805	006	5015	Level 4		5				✓		132423
1858	007	3155	Level 5		6				✓		132422
1950	008	2575	Level 6		7				✓		132406
2042	009	2961	Level 7		8				✓		132405
2135	010	4635	VI BLK		1			✓	✓		
2227	011		VI BLK		1			✓	✓		
2319	012	2572	ICV		9			✓	✓		139388 AG
0012	013	4635	VI BLK		1			✓	✓		
0104	014	2572	N/A		9			✓	✓		not needed
0157	015	4635	VI BLK		1			✓	✓		

PAD 5/18/11

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

06/23/2011

GC/MS INSTRUMENT RUN LOG

Sequence				Standard Traceability		Instrument Information
Batch ID:	BKCQ	Start Date: 6/20/11	Time: 0815	ISTD Lot #:	84580	Instrument ID: B
Test Method:	TO15	End Date: 6/21/11	Time: 0815	CAL STD Lot #	132423	Instrument: 5973
ICAL Date:	5/12/11			ICV / LCS Lot #	139323	Column Type: RTX-624

	Manager	Analyst	Analyst	Analyst	Analyst
Name/Initial					
Signature					

Sequence Information								Individual Sample Review			
Injection Time	TALS ID / File Name	Summa Can ID	ETR	Dilution Factor	Inlet #	Volume (mL)	Operator	Internal Std.	Result Conc.	Primary Anal.	Comments / Standard Traceability
0815	BKCQ001	N/A	BFB	NA	NA	NA	WRD	NA	NA	WRD	
0906	002	5015	CCV		1	200		NA	✓		AG
0958	003	2703	LCS		2			✓	✓		AG
1048	004	4633	MB		3			✓	✓		
1141	005	2852	5568-1	19.6	4	46		✓	✓		CDF 4.51 C
1233	006	3038	-2	1	5	200		✓	✓		C
1326	007	2620	-3		6			✓	✓		C
1418	008	4546	5569-1	23.8	7	52		✓	✓		CDF ~~4.51~~ 19.19 C
1511	009	5122	-2	1	8	200		✓	✓		C
1603	010	3790	-3		9	1		✓	✓	PAD	C
1656	011	2956	5570-1	1	10	200		✓	✓		C
1748	012	5091	-2	1	11			✓	✓		C
1841	013	3313	-3	1	12			✓	✓		C PAD 6/21/11
1933	014	3277	-4	10	13	20		✓	✓		C ~~↑ T.C.'s NCM~~
2026	015	4869	15754-1	20	14	10		✓	✓		C ↑ T.C.'s NCM
2118	016	4443	-2	10	15	20		✓	✓		C " NCM
2210	017	3225	-3	1	16	200		✓	✓		C
2303	018	5043	-4	1	1	1		✓	✓		C
0003	019	3421	5577-2	0.2	2	1000		✓	✓		
0103	020	4782	5579-9	0.2	3	1000		✓	✓		
0155	021	4959	TS8T01	1	4	200		✓			
0248	022	4963	02		5			✓			
0341	023	3691	03		6			✓			
0433	024	4850	04		7			✓			
0525	025	3329	05		8			✓			
0618	026	4390	06		9			✓			
				PAD	6/21/11						

Legend: C=Complete ▪ R=Reanalyze ▪ ↑ = High ▪ ↓= Low ▪ ✓=Reviewed and Acceptable

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

15754

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: David Fiereck	Samples Collected By: LPC	1 of 1 COCs
Company: LEA	Phone:		
Address: 100 Northwest Dr.	Email:		
City/State/Zip Plainville CT 06062			
Phone: 860-747-6181	Site Contact: Joe Trzask:		
FAX:	TA Contact: Jill Duhancik		
Project Name: OSL	**Analysis Turnaround Time**		
Site:	Standard (Specify) 7 Day		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1230176 (1)	6-15-11	0841	1431	-30	-8	3175	4369	X											
1230177 (2)	↓	0842	1432	-30	-8	3479	4443	X											
1230178 (3)	↓	0955	1455	-30	-10	5182	1650	X											
1230179 (4)	6-15-11	0956	1456	-30	-10	5184	6532	X											

Temperature (Fahrenheit)	Interior	Ambient
Start		
Stop		

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by:	Date/Time: 6-15-11 1622	Received by: Albert Gramaty
Relinquished by: Albert Gramaty	Date/Time: 6/15/11 1757	Received by: 6-15-11 1800

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

06/23/2011

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15754-1

Login Number: 15754 **List Source: TestAmerica Connecticut**
List Number: 1
Creator: Teixeira, Maria L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15754-1

Login Number: 15754
List Number: 1
Creator: Marion, Greg T

List Source: TestAmerica Burlington
List Creation: 06/17/11 06:31 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO SEAL NUMBERS
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	Check done at department level as required.

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Duhancik, Jill M	Carrier Tracking No(s):	COC No: 220-8721.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jill.duhancik@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 220-15754-1

Analysis Requested

Address: 30 Community Drive, Suite 11,	Due Date Requested: 6/23/2011
City: South Burlington	TAT Requested (days):
State, Zip: VT, 05403	
Phone: 802-660-1990(Tel)	PO #:
Email:	WO #:
Project Name: UTC-Old Southington Landfill	Project #: 22003928
Site:	SSOW#:

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 - Client ID (Lab ID)	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)	TO15/Air_Summa_Can (MOD) Subset of OLIN.sub												Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
1230176 (220-15754-1)	6/15/11	14:31 Eastern		Air			X												1	
1230177 (220-15754-2)	6/15/11	14:32 Eastern		Air			X												1	
1230178 (220-15754-3)	6/15/11	14:55 Eastern		Air			X												1	
1230179 (220-15754-4)	6/15/11	14:56 Eastern		Air			X												1	

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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
[signature]	6-16-11 1720		[signature]	6/17/11 1020	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.: N/A	Cooler Temperature(s) °C and Other Remarks: AIR

06/20/2011

ANALYTICAL REPORT

Job Number: 220-15779-1

Job Description: UTC-Old Southington Landfill

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trazski

Approved for release.
Cheryl Cascella
Project Manager I
6/24/2011 10:07 AM

Designee for
Jill M Duhancik
Project Manager II
jill.duhancik@testamericainc.com
06/24/2011

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Connecticut**	***Client:***	**LEA**
Project Location:	**UTC Old Southington LF**	***Project Number:***	**220-15779-1**
Laboratory Sample ID (s):	**1-5**	***Sampling Date (s):***	**6/16/11**
RCP Method:	**8260B**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6°C)?	Yes √	N/A	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes		No √
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes √		No
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes		No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes √		No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Doreen Nemeth Position: Quality Assurance Manager

Printed Name: **Doreen Nemeth** Date: June 24, 2011

The certification form has been electronically signed and approved.

Updated November 2007

CTDEP PH-0497

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Tel:(203)929-8140
Fax:(203)929-8142

Client: Loureiro Engineering Associates, P.C.

Project: UTC-Old Southington Landfill

Report Number: 220-15779-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

As per the State of Connecticut Reasonable Confidence Protocol (CTRCP), a Laboratory Analysis QA/QC Certification Form has been provided with this report.

See the attached template for CTRSR Exceedances.

All analyses listed in this report comply with the UTC, Analytical Minimum Standards for Laboratories- June 2008, Rev 4'.

RECEIPT

The samples were received on 06/16/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt. (See Sample Receipt Checklist)

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 220-15779-1 through 220-15779-5 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/21/2011.

1,1,1-Trichloroethane (134%), 1,1,2-Trichloro-1,2,2-trifluoroethane (136%), Carbon disulfide (138%) and Carbon tetrachloride (140%) failed the recovery criteria high for LCS 220-52079/2.
Naphthalene (63%) failed the recovery criteria low for LCSD 220-52079/3.
The following samples were affected: (LCS 220-52079/2), (LCSD 220-52079/3), (MB 220-52079/4), 1230182 (220-15779-1), 1230186 (220-15779-4), 1230187 (220-15779-5), 1230190 (220-15779-3), 1230191 (220-15779-2).

The initial calibration curve analyzed on instrument MSV on 06/15/11 was outside CTRCP acceptance criteria for 1,3,5-trimethylbenzene at 31.5%RSD, 1,2,4-trimethylbenzene at 30.6% RSD, sec-butylbenzene at 27.5%RSD, n-butylbenzene at 19.9%RSD, 4-isopropyltoluene at 31.7%RSD, tert-butylbenzene at 28.3%RSD, hexachlorobutadiene at 23.4%RSD, and xylene-m&p at 28.5%RSD. The quadratic curve fit was used for chloroethane, and n-propylbenzene.
The following samples were affected: (LCS 220-52079/2), (LCSD 220-52079/3), (MB 220-52079/4), 1230182 (220-15779-1), 1230186 (220-15779-4), 1230187 (220-15779-5), 1230190 (220-15779-3), 1230191 (220-15779-2).
The continuing calibration verification (CCV) analyzed on instrument MSV on 06/21/11 recovered above the CTRCP upper control limit for trichlorofluoromethane at 32.1%D, and chloroethane at 61.5%D. The following samples were affected: (LCS 220-52079/2), (LCSD 220-52079/3), (MB 220-52079/4), 1230182 (220-15779-1), 1230186 (220-15779-4), 1230187 (220-15779-5), 1230190 (220-15779-3), 1230191 (220-15779-2).

Method 8260B Poor Performers: Acetone, Bromoform, Bromomethane, 1,2-Dibromo-3-chloropropane, Dichlorodifluoromethane, cis-1,3-Dichloropropene, 2-Hexanone, 2-Butanone (MEK), 4-Methyl-2-Pentanone (MIBK), Naphthalene, Styrene and 1,1,2,2-Tetrachloroethane.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

CTDEP RCP/RSR Laboratory Detection Limit Exceedances

CTRCP - Aqueous Volatile Low Detection Limit Exceedances

The following Connecticut Reasonable Confidence Protocol (CTRCP) aqueous Volatile method 8260 low detection limits could not be achieved using routine laboratory reporting limits (RLs): Acrylonitrile, Bromomethane, Chloroethane, Dichlorodifluoromethane, Hexachlorobutadiene, Methylene chloride.

Connecticut Remediation Standard Exceedances

The following Connecticut Remediation Standard Regulations (CTRSRs) detection limits could not be achieved using routine laboratory reporting limits (RLs):

Volatiles 8260

Groundwater / Surface Water – GWPC Volatile Organic Compounds: Acrolein*, Acrylonitrile, 1,4-Dichlorobutene, Ethylene dibromide, Hexachlorobutadiene**

Groundwater / Surface Water – Proposed RES GWVC Volatile Organic Compound: Ethylene dibromide.

Soil GB PMC: Acrolein*

* Note that Acrolein is not an analyte required under the CTRCP 8260 Analyte List, Table 1B
** Note that Hexachlorobutadiene is also a SVOA CTRCP target compound. The CTRSR limit for this compound can be achieved by the 8270 SemiVolatile SIM method.

SemiVolatile 8270

Groundwater / Surface Water – GWPC SemiVolatile Organic Compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Pentachloronitrobenzene, Pyridine, 1,2,4,5-Tetrachlorobenzene.

Groundwater / Surface Water – SWPC SemiVolatile Organic Compounds: Dibenzo(a,h)anthracene, Hexachlorobenzene, Phenanthrene.

Soil GA/GAA PMC: 2,4-Dinitrophenol

Soil GB PMC: Pyridine, Pentachloronitrobenzene

Pesticide 8081

Groundwater / Surface Water – GWPC Pesticides: Aldrin, BHC-beta, Chlordane, Dieldrin

Groundwater / Surface Water – SWPC Pesticides: Chlordane, Toxaphene.

PCB 8082

Soil GA/GAA PMC and GB PMC (TCLP Only): Total PCBs

128 Long Hill Cross Road Shelton, CT 06484 tel 203.929.8140 fax 203.929.8142 www.testamericainc.com

Metals 6010

Ground / Surface Water – GWPC: Antimony, Arsenic, Beryllium, Thallium

Groundwater / Surface Water – SWPC: Arsenic, Beryllium, Lead

Soil GA/GAA PMC (TCLP only): Antimony, Arsenic, Beryllium, Thallium

All other Connecticut Remediation Standard Regulation (CTRSRs) can be achieved by TestAmerica Connecticut. Elevated detection limits may occur as a result of sample specific dilutions, matrix interference, or dry weight correction for soil samples.

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Laboratory Chronicle

Lab ID: 220-15779-1 **Client ID: 1230182**

Sample Date/Time: 06/16/2011 10:15 Received Date/Time: 06/16/2011 18:16

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15779-C-1		220-52079		06/21/2011 14:05	1	TAL CT	BK
A:8260B	220-15779-C-1		220-52079		06/21/2011 14:05	1	TAL CT	BK

Lab ID: 220-15779-2 **Client ID: 1230191**

Sample Date/Time: 06/16/2011 09:00 Received Date/Time: 06/16/2011 18:16

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15779-C-2		220-52079		06/21/2011 14:32	1	TAL CT	BK
A:8260B	220-15779-C-2		220-52079		06/21/2011 14:32	1	TAL CT	BK

Lab ID: 220-15779-3 **Client ID: 1230190**

Sample Date/Time: 06/16/2011 12:00 Received Date/Time: 06/16/2011 18:16

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15779-B-3		220-52079		06/21/2011 15:00	1	TAL CT	BK
A:8260B	220-15779-B-3		220-52079		06/21/2011 15:00	1	TAL CT	BK

Lab ID: 220-15779-4 **Client ID: 1230186**

Sample Date/Time: 06/16/2011 11:45 Received Date/Time: 06/16/2011 18:16

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15779-A-4		220-52079		06/21/2011 15:27	1	TAL CT	BK
A:8260B	220-15779-A-4		220-52079		06/21/2011 15:27	1	TAL CT	BK

Lab ID: 220-15779-5 **Client ID: 1230187**

Sample Date/Time: 06/16/2011 13:00 Received Date/Time: 06/16/2011 18:16

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-15779-B-5		220-52079		06/21/2011 15:54	1	TAL CT	BK
A:8260B	220-15779-B-5		220-52079		06/21/2011 15:54	1	TAL CT	BK

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 220-52079/4		220-52079		06/21/2011 12:44	1	TAL CT	BK
A:8260B	MB 220-52079/4		220-52079		06/21/2011 12:44	1	TAL CT	BK

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 220-52079/2		220-52079		06/21/2011 11:22	1	TAL CT	BK
A:8260B	LCS 220-52079/2		220-52079		06/21/2011 11:22	1	TAL CT	BK

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 220-52079/3		220-52079		06/21/2011 11:49	1	TAL CT	BK
A:8260B	LCSD 220-52079/3		220-52079		06/21/2011 11:49	1	TAL CT	BK

Lab References:
TAL CT = TestAmerica Connecticut

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Method	Analyst	Analyst ID
SW846 8260B	Kostrzewska, Barbara	BK

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-15779-1	1230182	Water	06/16/2011 1015	06/16/2011 1816
220-15779-2	1230191	Water	06/16/2011 0900	06/16/2011 1816
220-15779-3	1230190	Water	06/16/2011 1200	06/16/2011 1816
220-15779-4	1230186	Water	06/16/2011 1145	06/16/2011 1816
220-15779-5	1230187	Water	06/16/2011 1300	06/16/2011 1816

SAMPLE RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: **1230182**

Lab Sample ID: 220-15779-1 Date Sampled: 06/16/2011 1015
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1644.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1405			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1405				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND	*	0.50
Carbon tetrachloride	ND	*	0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: 1230182

Lab Sample ID: 220-15779-1 Date Sampled: 06/16/2011 1015
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1644.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1405			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1405				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND	*	0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene	89		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	83		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: **1230191**

Lab Sample ID: 220-15779-2 Date Sampled: 06/16/2011 0900
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1645.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1432			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1432				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND	*	0.50
Carbon tetrachloride	ND	*	0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: 1230191

Lab Sample ID: 220-15779-2 Date Sampled: 06/16/2011 0900
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1645.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1432			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1432				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND	*	0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107		70 - 130
4-Bromofluorobenzene	86		70 - 130
Dibromofluoromethane	110		70 - 130
Toluene-d8 (Surr)	81		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: **1230190**

Lab Sample ID: 220-15779-3 Date Sampled: 06/16/2011 1200
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1646.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1500			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1500				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND	*	0.50
Carbon tetrachloride	ND	*	0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: 1230190

Lab Sample ID: 220-15779-3 Date Sampled: 06/16/2011 1200
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1646.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1500			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1500				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND	*	0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	111		70 - 130
4-Bromofluorobenzene	88		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	81		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: **1230186**

Lab Sample ID: 220-15779-4 Date Sampled: 06/16/2011 1145
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1647.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1527			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1527				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND	*	0.50
Carbon tetrachloride	ND	*	0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: 1230186

Lab Sample ID: 220-15779-4 Date Sampled: 06/16/2011 1145
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1647.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1527			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1527				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	1.1	*	0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
4-Bromofluorobenzene	87		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	80		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: **1230187**

Lab Sample ID: 220-15779-5 Date Sampled: 06/16/2011 1300
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1648.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1554			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1554				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND	*	0.50
Carbon tetrachloride	ND	*	0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Client Sample ID: 1230187

Lab Sample ID: 220-15779-5 Date Sampled: 06/16/2011 1300
Client Matrix: Water Date Received: 06/16/2011 1816

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-52079	Instrument ID:	MSV
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V1648.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1554			Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1554				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND	*	0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	*	0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	120		70 - 130
4-Bromofluorobenzene	86		70 - 130
Dibromofluoromethane	120		70 - 130
Toluene-d8 (Surr)	85		70 - 130

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Lab Section	Qualifier	Description
GC/MS VOA		
	*	LCS or LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-52079					
LCS 220-52079/2	Lab Control Sample	T	Water	8260B	
LCSD 220-52079/3	Lab Control Sample Duplicate	T	Water	8260B	
MB 220-52079/4	Method Blank	T	Water	8260B	
220-15779-1	1230182	T	Water	8260B	
220-15779-2	1230191	T	Water	8260B	
220-15779-3	1230190	T	Water	8260B	
220-15779-4	1230186	T	Water	8260B	
220-15779-5	1230187	T	Water	8260B	

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
220-15779-1	1230182	110	89	112	83
220-15779-2	1230191	107	86	110	81
220-15779-3	1230190	111	88	112	81
220-15779-4	1230186	113	87	112	80
220-15779-5	1230187	120	86	120	85
MB 220-52079/4		106	90	109	84
LCS 220-52079/2		86	83	89	88
LCSD 220-52079/3		86	85	87	88

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Method Blank - Batch: 220-52079

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 220-52079/4	Analysis Batch:	220-52079	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1641.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1244	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1244				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Method Blank - Batch: 220-52079 **Method: 8260B**
Preparation: 5030B

Lab Sample ID:	MB 220-52079/4	Analysis Batch:	220-52079	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1641.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1244	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1244				
Leach Date:	N/A				

Analyte	Result	Qual	RL
4-Methyl-2-pentanone (MIBK)	ND		2.0
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	70 - 130
4-Bromofluorobenzene	90	70 - 130
Dibromofluoromethane	109	70 - 130
Toluene-d8 (Surr)	84	70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-52079

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-52079/2	Analysis Batch:	220-52079	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1638.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1122	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1122				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 220-52079/3	Analysis Batch:	220-52079	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1639.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1149	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1149				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	79	73	70 - 130	8	30		
Acrylonitrile	106	98	70 - 130	8	30		
Benzene	120	108	70 - 130	10	30		
Bromobenzene	101	93	70 - 130	8	30		
n-Butylbenzene	121	107	70 - 130	12	30		
sec-Butylbenzene	124	111	70 - 130	11	30		
tert-Butylbenzene	105	95	70 - 130	10	30		
Dichlorobromomethane	115	105	70 - 130	10	30		
Bromoform	105	99	70 - 130	6	30		
Bromomethane	107	103	70 - 130	4	30		
2-Butanone (MEK)	83	80	70 - 130	4	30		
Chlorobenzene	109	100	70 - 130	9	30		
Carbon disulfide	138	124	70 - 130	11	30	*	
Carbon tetrachloride	140	125	70 - 130	11	30	*	
Chloroethane	129	125	70 - 130	3	30		
Chloroform	116	105	70 - 130	10	30		
Chloromethane	89	89	70 - 130	0	30		
2-Chlorotoluene	106	95	70 - 130	10	30		
4-Chlorotoluene	105	96	70 - 130	9	30		
Chlorodibromomethane	106	103	70 - 130	4	30		
1,2-Dibromo-3-Chloropropane	89	85	70 - 130	5	30		
Ethylene Dibromide	105	96	70 - 130	9	30		
Dibromomethane	111	101	70 - 130	10	30		
1,2-Dichlorobenzene	98	90	70 - 130	9	30		
1,3-Dichlorobenzene	109	97	70 - 130	11	30		
1,4-Dichlorobenzene	103	95	70 - 130	8	30		
trans-1,4-Dichloro-2-butene	102	97	70 - 130	5	30		
Dichlorodifluoromethane	84	87	70 - 130	4	30		
1,1-Dichloroethane	120	110	70 - 130	9	30		
1,2-Dichloroethane	120	107	70 - 130	11	30		
1,1-Dichloroethene	127	117	70 - 130	8	30		
cis-1,2-Dichloroethene	111	102	70 - 130	8	30		
trans-1,2-Dichloroethene	119	106	70 - 130	11	30		
1,2-Dichloropropane	108	95	70 - 130	12	30		
1,3-Dichloropropane	104	97	70 - 130	7	30		

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-52079

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-52079/2	Analysis Batch:	220-52079	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1638.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1122	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1122				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 220-52079/3	Analysis Batch:	220-52079	Instrument ID:	MSV
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V1639.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	06/21/2011 1149	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	06/21/2011 1149				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
2,2-Dichloropropane	128	113	70 - 130	13	30		
1,1-Dichloropropene	110	101	70 - 130	9	30		
cis-1,3-Dichloropropene	98	90	70 - 130	9	30		
trans-1,3-Dichloropropene	104	93	70 - 130	11	30		
Ethylbenzene	110	99	70 - 130	10	30		
Hexachlorobutadiene	96	86	70 - 130	11	30		
2-Hexanone	81	81	70 - 130	0	30		
Isopropylbenzene	86	79	70 - 130	8	30		
4-Isopropyltoluene	110	99	70 - 130	10	30		
Methylene Chloride	127	113	70 - 130	12	30		
4-Methyl-2-pentanone (MIBK)	89	85	70 - 130	5	30		
Methyl tert-butyl ether	101	94	70 - 130	7	30		
Naphthalene	70	63	70 - 130	9	30		*
N-Propylbenzene	84	77	70 - 130	9	30		
Styrene	94	83	70 - 130	12	30		
1,1,1,2-Tetrachloroethane	120	107	70 - 130	11	30		
1,1,2,2-Tetrachloroethane	92	88	70 - 130	4	30		
Toluene	123	113	70 - 130	8	30		
Tetrachloroethene	121	110	70 - 130	10	30		
Tetrahydrofuran	83	85	70 - 130	3	30		
1,2,3-Trichlorobenzene	82	73	70 - 130	11	30		
1,2,4-Trichlorobenzene	80	74	70 - 130	8	30		
1,1,1-Trichloroethane	134	120	70 - 130	11	30	*	
1,1,2-Trichloroethane	109	102	70 - 130	6	30		
Trichloroethene	119	109	70 - 130	9	30		
Trichlorofluoromethane	116	119	70 - 130	2	30		
1,2,3-Trichloropropane	92	88	70 - 130	4	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	136	126	70 - 130	7	30	*	
1,2,4-Trimethylbenzene	113	101	70 - 130	11	30		
1,3,5-Trimethylbenzene	119	107	70 - 130	10	30		
Vinyl chloride	95	95	70 - 130	0	30		
m-Xylene & p-Xylene	124	111	70 - 130	11	30		
o-Xylene	92	84	70 - 130	9	30		
Xylenes, Total	113	102	70 - 130	10	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits

Client: Loureiro Engineering Associates, P.C. Job Number: 220-15779-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	86	86	70 - 130
4-Bromofluorobenzene	83	85	70 - 130
Dibromofluoromethane	89	87	70 - 130
Toluene-d8 (Surr)	88	88	70 - 130

3090

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: LPC	TAT Required (business days): 7 Day	Lab PM/Contact: Jill Dohanoik
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only): 15779
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [✓] Yes [ ] No
City, State, Zip: Plainville, CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only): Probe -1.0°C
Phone: 860-747-6181	WO #:		
Email:	Project #: 61SL902		
Project Name/Site Location (State): OSL, CT	SSOW#:	State Regulatory QC Criteria Requirements: CT RCPs + RSRs	

COC Number: 19594
Page 1 of 1
Carrier Tracking Notes:

Sample Summary Notes: [illegible] to TestAmerica terms and conditions

TAG#	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	8260 RCP CT RCP Compound List	Comments
	(1) 1230182	6/16/11	1015	Aq	No				3				X	
	(2) 1230191	↓	0900	↓	↓				3				X	
	(3) 1230190	(2)	1200	(2)	(2)				3				X	
	(4) 1230186	↓	1145	↓	↓				3				X	
	(5) 1230187	6/16/11	1300	Aq	No				3				X	

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	6/15/11	LEA	[signature]	6/16/11 1450	TACT
[signature]	6/16/11 1816	TACT	[signature]	6-16-11 1816	

Comments: GA Area

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

06/24/2011

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-15779-1

Login Number: 15779
List Number: 1
Creator: Teixeira, Maria L

List Source: TestAmerica Connecticut

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-1.0c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 220-16485-1

Job Description: UTC-Old Southington Landfill

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trazski

Approved for release.
Cheryl Cascella
Project Manager I
9/20/2011 3:24 PM

Designee for
Jill M Duhancik
Project Manager II
jill.duhancik@testamericainc.com
09/20/2011

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
TestAmerica Connecticut 128 Long Hill Cross Road, Shelton, CT 06484
Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

Job Number: 220-16485-1

Job Description: UTC-Old Southington Landfill

I certify that this data package is in compliance with United Technologies Corporation Environmental Laboratory Program, Chem_03: Analytical Minimum Standards for Laboratories - June 2008, Rev. 4. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Project Manager or his/her designee, as verified by the following signature.

Approved for release.
Cheryl Cascella
Project Manager I
9/20/2011 3:24 PM

Designee for
Jill M Duhancik

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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Connecticut**	***Client:***	**LEA**
Project Location:	**UTC Old Southington LF**	***Project Number:***	**220-16485-1**
Laboratory Sample ID (s):	**1-10**	***Sampling Date (s):***	**9/13/11**
RCP Method:	**8260B**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6°C)?	Yes √	N/A	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes		No √
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes √		No
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes		No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes		No √
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Doreen Nemeth Position: Quality Assurance Manager

Printed Name: **Doreen Nemeth** Date: September 20, 2011

The certification form has been electronically signed and approved.

Updated November 2007

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

CTDEP PH-0497

TestAmerica Connecticut
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Shelton, CT 06484
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CASE NARRATIVE

Client: Loureiro Engineering Associates, P.C.

Project: UTC-Old Southington Landfill

Report Number: 220-16485-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

As per the State of Connecticut Reasonable Confidence Protocol (CTRCP), a Laboratory Analysis QA/QC Certification Form has been provided with this report.

See the attached template for CTRSR Exceedances.

All analyses listed in this report comply with the UTC, Analytical Minimum Standards for Laboratories- June 2008, Rev 4'.

RECEIPT
The samples were received on 09/13/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 4.9 C.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples 220-16485-1 through 220-16485-5 and 220-16485-7 through 220-16485-10 were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/14/2011.
Sample 220-16485-6 was analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/14/2011.

Methylene Chloride was detected in method blank MB 220-54809/3 at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged. Refer to the QC report for details.

1,2,4-Trichlorobenzene (68%), Acetone (69%), Hexachlorobutadiene (58%) and Naphthalene (66%) failed the recovery criteria low for LCS 220-54809/2.
1,2,3-Trichlorobenzene (63%), 1,2,4-Trichlorobenzene (61%), Hexachlorobutadiene (52%) and Naphthalene (63%) failed the recovery criteria low for LCSD 220-54809/9.
The following samples were affected: (LCS 220-54809/2), (LCSD 220-54809/9), (MB 220-54809/3), 1239898 (220-16485-1), 1239899 (220-16485-8), 1239900 (220-16485-7), 1239901 (220-16485-2), 1239902 (220-16485-10), 1239905 (220-16485-9), 1239906 (220-16485-6), 1239908 (220-16485-5), 1239909 (220-16485-4), 1239910 (220-16485-3).

The initial calibration curve analyzed on instrument MSW on 08/30//11 was outside CTRCP acceptance criteria for methylene chloride at 39.5 %RSD, hexachlorobutadiene 39.7%RSD, acetone at 23.4%D, 1,3,5-trimethylbenzene at 18.4%RSD, 1,2,3-trichlorobenzene at 17.4%RSD, styrene at 16.3%RSD, and tetrachloroethene at 21.2%RSD
The following samples were affected: (LCS 220-54809/2), (LCSD 220-54809/9), (MB 220-54809/3), 1239898 (220-16485-1), 1239899 (220-16485-8), 1239900 (220-16485-7), 1239901 (220-16485-2), 1239902 (220-16485-10), 1239905 (220-16485-9), 1239906 (220-16485-6), 1239908 (220-16485-5), 1239909 (220-16485-4), 1239910 (220-16485-3).
The continuing calibration verification (CCV) analyzed on instrument MSW on 09/14/11 recovered above the CTRCP upper control limit for hexachlorobutadiene at -47.0%D, trichlorofluoromethane at -30.6%D, and 1,2,3-trichlorobenzene at -31.5%D.

The following samples were affected: (LCS 220-54809/2), (LCSD 220-54809/9), (MB 220-54809/3), 1239898 (220-16485-1), 1239899 (220-16485-8), 1239900 (220-16485-7), 1239901 (220-16485-2), 1239902 (220-16485-10), 1239905 (220-16485-9), 1239906 (220-16485-6), 1239908 (220-16485-5), 1239909 (220-16485-4), 1239910 (220-16485-3).

Method 8260B Poor Performers: Acetone, Bromoform, Bromomethane, 1,2-Dibromo-3-chloropropane, Dichlorodifluoromethane, cis-1,3-Dichloropropene, 2-Hexanone, 2-Butanone (MEK), 4-Methyl-2-Pentanone (MIBK), Naphthalene, Styrene and 1,1,2,2-Tetrachloroethane.

No other difficulties were encountered during the volatiles analyses.

All other quality control parameters were within the acceptance limits.

CTDEP RCP/RSR Laboratory Detection Limit Exceedances

CTRCP - Aqueous Volatile Low Detection Limit Exceedances

The following Connecticut Reasonable Confidence Protocol (CTRCP) aqueous Volatile method 8260 low detection limits could not be achieved using routine laboratory reporting limits (RLs): Acrylonitrile, Bromomethane, Chloroethane, Dichlorodifluoromethane, Hexachlorobutadiene, Methylene chloride.

Connecticut Remediation Standard Exceedances

The following Connecticut Remediation Standard Regulations (CTRSRs) detection limits could not be achieved using routine laboratory reporting limits (RLs):

Volatiles 8260

Groundwater / Surface Water – GWPC Volatile Organic Compounds: Acrolein*, Acrylonitrile, 1,4-Dichlorobutene, Ethylene dibromide, Hexachlorobutadiene**

Groundwater / Surface Water – Proposed RES GWVC Volatile Organic Compound: Ethylene dibromide.

Soil GB PMC: Acrolein*

* Note that Acrolein is not an analyte required under the CTRCP 8260 Analyte List, Table 1B
** Note that Hexachlorobutadiene is also a SVOA CTRCP target compound. The CTRSR limit for this compound can be achieved by the 8270 SemiVolatile SIM method.

SemiVolatile 8270

Groundwater / Surface Water – GWPC SemiVolatile Organic Compounds: Benzo(a)anthracene, Benzo(b)fluoranthene, Pentachloronitrobenzene, Pyridine, 1,2,4,5-Tetrachlorobenzene.

Groundwater / Surface Water – SWPC SemiVolatile Organic Compounds: Dibenzo(a,h)anthracene, Hexachlorobenzene, Phenanthrene.

Soil GA/GAA PMC: 2,4-Dinitrophenol

Soil GB PMC: Pyridine, Pentachloronitrobenzene

Pesticide 8081

Groundwater / Surface Water – GWPC Pesticides: Aldrin, BHC-beta, Chlordane, Dieldrin

Groundwater / Surface Water – SWPC Pesticides: Chlordane, Toxaphene.

PCB 8082

Soil GA/GAA PMC and GB PMC (TCLP Only): Total PCBs

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Metals 6010

Ground / Surface Water – GWPC: Antimony, Arsenic, Beryllium, Thallium

Groundwater / Surface Water – SWPC: Arsenic, Beryllium, Lead

Soil GA/GAA PMC (TCLP only): Antimony, Arsenic, Beryllium, Thallium

All other Connecticut Remediation Standard Regulation (CTRSRs) can be achieved by TestAmerica Connecticut. Elevated detection limits may occur as a result of sample specific dilutions, matrix interference, or dry weight correction for soil samples.

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Laboratory Chronicle

Lab ID: 220-16485-1 **Client ID: 1239898**

Sample Date/Time: 09/13/2011 10:21 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-1		220-54809		09/14/2011 14:19	1	TAL CT	BK
A:8260B	220-16485-A-1		220-54809		09/14/2011 14:19	1	TAL CT	BK

Lab ID: 220-16485-2 **Client ID: 1239901**

Sample Date/Time: 09/13/2011 13:26 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-2		220-54809		09/14/2011 14:44	1	TAL CT	BK
A:8260B	220-16485-A-2		220-54809		09/14/2011 14:44	1	TAL CT	BK

Lab ID: 220-16485-3 **Client ID: 1239910**

Sample Date/Time: 09/13/2011 13:26 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-3		220-54809		09/14/2011 18:03	1	TAL CT	BK
A:8260B	220-16485-A-3		220-54809		09/14/2011 18:03	1	TAL CT	BK

Lab ID: 220-16485-4 **Client ID: 1239909**

Sample Date/Time: 09/13/2011 08:30 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-4		220-54809		09/14/2011 15:09	1	TAL CT	BK
A:8260B	220-16485-A-4		220-54809		09/14/2011 15:09	1	TAL CT	BK

Lab ID: 220-16485-5 **Client ID: 1239908**

Sample Date/Time: 09/13/2011 15:00 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-5		220-54809		09/14/2011 15:34	1	TAL CT	BK
A:8260B	220-16485-A-5		220-54809		09/14/2011 15:34	1	TAL CT	BK

Lab ID: 220-16485-6 **Client ID: 1239906**

Sample Date/Time: 09/13/2011 13:45 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-6		220-54809		09/14/2011 15:58	1	TAL CT	BK
A:8260B	220-16485-A-6		220-54809		09/14/2011 15:58	1	TAL CT	BK

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Laboratory Chronicle

Lab ID: 220-16485-7 **Client ID: 1239900**

Sample Date/Time: 09/13/2011 13:45 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-7		220-54809		09/14/2011 16:23	1	TAL CT	BK
A:8260B	220-16485-A-7		220-54809		09/14/2011 16:23	1	TAL CT	BK

Lab ID: 220-16485-8 **Client ID: 1239899**

Sample Date/Time: 09/13/2011 10:21 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-8		220-54809		09/14/2011 16:48	1	TAL CT	BK
A:8260B	220-16485-A-8		220-54809		09/14/2011 16:48	1	TAL CT	BK

Lab ID: 220-16485-9 **Client ID: 1239905**

Sample Date/Time: 09/13/2011 15:21 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-9		220-54809		09/14/2011 17:13	1	TAL CT	BK
A:8260B	220-16485-A-9		220-54809		09/14/2011 17:13	1	TAL CT	BK

Lab ID: 220-16485-10 **Client ID: 1239902**

Sample Date/Time: 09/13/2011 15:46 Received Date/Time: 09/13/2011 19:15

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	220-16485-A-10		220-54809		09/14/2011 17:38	1	TAL CT	BK
A:8260B	220-16485-A-10		220-54809		09/14/2011 17:38	1	TAL CT	BK

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 220-54809/3		220-54809		09/14/2011 12:15	1	TAL CT	BK
A:8260B	MB 220-54809/3		220-54809		09/14/2011 12:15	1	TAL CT	BK

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 220-54809/2		220-54809		09/14/2011 11:00	1	TAL CT	BK
A:8260B	LCS 220-54809/2		220-54809		09/14/2011 11:00	1	TAL CT	BK

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Laboratory Chronicle

Lab ID: LCSD **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 220-54809/9		220-54809		09/14/2011 11:25	1	TAL CT	BK
A:8260B	LCSD 220-54809/9		220-54809		09/14/2011 11:25	1	TAL CT	BK

Lab References:
TAL CT = TestAmerica Connecticut

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Volatile Organic Compounds (GC/MS)	TAL CT	SW846 8260B	
Purge and Trap	TAL CT		SW846 5030B
Sample Filtration, Field			FIELD_FLTRD

Lab References:

TAL CT = TestAmerica Connecticut

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Method	Analyst	Analyst ID
SW846 8260B	Kostrzewska, Barbara	BK

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-16485-1	1239898	Water	09/13/2011 1021	09/13/2011 1915
220-16485-2	1239901	Water	09/13/2011 1326	09/13/2011 1915
220-16485-3	1239910	Water	09/13/2011 1326	09/13/2011 1915
220-16485-4	1239909	Water	09/13/2011 0830	09/13/2011 1915
220-16485-5	1239908	Water	09/13/2011 1500	09/13/2011 1915
220-16485-6	1239906	Water	09/13/2011 1345	09/13/2011 1915
220-16485-7	1239900	Water	09/13/2011 1345	09/13/2011 1915
220-16485-8	1239899	Water	09/13/2011 1021	09/13/2011 1915
220-16485-9	1239905	Water	09/13/2011 1521	09/13/2011 1915
220-16485-10	1239902	Water	09/13/2011 1546	09/13/2011 1915

SAMPLE RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: **1239898**

Lab Sample ID: 220-16485-1 Date Sampled: 09/13/2011 1021
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4832.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1419			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1419				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239898

Lab Sample ID: 220-16485-1 Date Sampled: 09/13/2011 1021
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4832.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1419			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1419				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene	75		70 - 130
Dibromofluoromethane	116		70 - 130
Toluene-d8 (Surr)	88		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239901

Lab Sample ID: 220-16485-2 Date Sampled: 09/13/2011 1326
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4833.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1444			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1444				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239901

Lab Sample ID: 220-16485-2 Date Sampled: 09/13/2011 1326
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4833.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1444			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1444				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	1.3		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
4-Bromofluorobenzene	77		70 - 130
Dibromofluoromethane	117		70 - 130
Toluene-d8 (Surr)	88		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239910

Lab Sample ID: 220-16485-3 Date Sampled: 09/13/2011 1326
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4841.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1803			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1803				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	2.6	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239910

Lab Sample ID: 220-16485-3 Date Sampled: 09/13/2011 1326
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4841.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1803			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1803				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	1.3		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
4-Bromofluorobenzene	78		70 - 130
Dibromofluoromethane	119		70 - 130
Toluene-d8 (Surr)	90		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: **1239909**

Lab Sample ID: 220-16485-4 Date Sampled: 09/13/2011 0830
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4834.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1509			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1509				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	3.0	B	2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: **1239909**

Lab Sample ID: 220-16485-4 Date Sampled: 09/13/2011 0830
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4834.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1509			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1509				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene	80		70 - 130
Dibromofluoromethane	117		70 - 130
Toluene-d8 (Surr)	89		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: **1239908**

Lab Sample ID: 220-16485-5 Date Sampled: 09/13/2011 1500
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4835.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1534			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1534				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	10		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239908

Lab Sample ID: 220-16485-5 Date Sampled: 09/13/2011 1500
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4835.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1534			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1534				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
4-Bromofluorobenzene	79		70 - 130
Dibromofluoromethane	114		70 - 130
Toluene-d8 (Surr)	87		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239906

Lab Sample ID: 220-16485-6 Date Sampled: 09/13/2011 1345
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)-Dissolved

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4836.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1558			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1558				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	2.0	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239906

Lab Sample ID: 220-16485-6 Date Sampled: 09/13/2011 1345
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)-Dissolved

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4836.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1558			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1558				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	110		70 - 130
4-Bromofluorobenzene	78		70 - 130
Dibromofluoromethane	114		70 - 130
Toluene-d8 (Surr)	87		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: **1239900**

Lab Sample ID: 220-16485-7 Date Sampled: 09/13/2011 1345
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4837.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1623			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1623				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	38	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: **1239900**

Lab Sample ID: 220-16485-7 Date Sampled: 09/13/2011 1345
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4837.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1623			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1623				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
4-Bromofluorobenzene	78		70 - 130
Dibromofluoromethane	117		70 - 130
Toluene-d8 (Surr)	92		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239899

Lab Sample ID: 220-16485-8 Date Sampled: 09/13/2011 1021
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4838.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1648			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1648				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239899

Lab Sample ID: 220-16485-8 Date Sampled: 09/13/2011 1021
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4838.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1648			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1648				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	113		70 - 130
4-Bromofluorobenzene	75		70 - 130
Dibromofluoromethane	123		70 - 130
Toluene-d8 (Surr)	86		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: **1239905**

Lab Sample ID: 220-16485-9 Date Sampled: 09/13/2011 1521
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4839.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1713			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1713				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND	*	2.0
Acrylonitrile	ND		2.0
Benzene	0.95		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	0.51		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239905

Lab Sample ID: 220-16485-9 Date Sampled: 09/13/2011 1521
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4839.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1713			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1713				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	0.65		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	3.7		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 130
4-Bromofluorobenzene	77		70 - 130
Dibromofluoromethane	113		70 - 130
Toluene-d8 (Surr)	88		70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: **1239902**

Lab Sample ID: 220-16485-10 Date Sampled: 09/13/2011 1546
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4840.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1738			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1738				

Analyte	Result (ug/L)	Qualifier	RL
Acetone	ND	*	2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND	*	0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	ND		2.0
4-Methyl-2-pentanone (MIBK)	ND		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Client Sample ID: 1239902

Lab Sample ID: 220-16485-10 Date Sampled: 09/13/2011 1546
Client Matrix: Water Date Received: 09/13/2011 1915

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	220-54809	Instrument ID:	MSW
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	W4840.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1738			Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1738				

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND	*	0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND	*	0.50
1,2,4-Trichlorobenzene	ND	*	0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	114		70 - 130
4-Bromofluorobenzene	79		70 - 130
Dibromofluoromethane	118		70 - 130
Toluene-d8 (Surr)	90		70 - 130

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Lab Section	Qualifier	Description
GC/MS VOA		
	B	Compound was found in the blank and sample.
	*	LCS or LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:220-54809					
LCS 220-54809/2	Lab Control Sample	T	Water	8260B	
LCSD 220-54809/9	Lab Control Sample Duplicate	T	Water	8260B	
MB 220-54809/3	Method Blank	T	Water	8260B	
220-16485-1	1239898	T	Water	8260B	
220-16485-2	1239901	T	Water	8260B	
220-16485-3	1239910	T	Water	8260B	
220-16485-4	1239909	T	Water	8260B	
220-16485-5	1239908	T	Water	8260B	
220-16485-6	1239906	D	Water	8260B	
220-16485-7	1239900	T	Water	8260B	
220-16485-8	1239899	T	Water	8260B	
220-16485-9	1239905	T	Water	8260B	
220-16485-10	1239902	T	Water	8260B	

Report Basis
D = Dissolved
T = Total

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
220-16485-1	1239898	110	75	116	88
220-16485-2	1239901	113	77	117	88
220-16485-3	1239910	114	78	119	90
220-16485-4	1239909	109	80	117	89
220-16485-5	1239908	114	79	114	87
220-16485-7	1239900	113	78	117	92
220-16485-8	1239899	113	75	123	86
220-16485-9	1239905	109	77	113	88
220-16485-10	1239902	114	79	118	90
MB 220-54809/3		107	76	115	88
LCS 220-54809/2		107	82	113	96
LCSD 220-54809/9		104	79	113	91

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-16485-1

Surrogate Recovery Report

8260B Volatile Organic Compounds (GC/MS)

Client Matrix: Water Dissolved

Lab Sample ID	Client Sample ID	DCA %Rec	BFB %Rec	DBFM %Rec	TOL %Rec
220-16485-6	1239906	110	78	114	87

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	70-130
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Method Blank - Batch: 220-54809

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 220-54809/3	Analysis Batch:	220-54809	Instrument ID:	MSW
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	W4827.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1215	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1215				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Acetone	ND		2.0
Acrylonitrile	ND		2.0
Benzene	ND		0.50
Bromobenzene	ND		0.50
n-Butylbenzene	ND		0.50
sec-Butylbenzene	ND		0.50
tert-Butylbenzene	ND		1.0
Dichlorobromomethane	ND		0.50
Bromoform	ND		0.50
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		2.0
Chlorobenzene	ND		0.50
Carbon disulfide	ND		0.50
Carbon tetrachloride	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		0.50
Chloromethane	ND		0.50
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		0.50
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
trans-1,4-Dichloro-2-butene	ND		1.0
Dichlorodifluoromethane	ND		1.0
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
1,3-Dichloropropane	ND		0.50
2,2-Dichloropropane	ND		0.50
1,1-Dichloropropene	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		0.50
2-Hexanone	ND		2.0
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		0.50
Methylene Chloride	2.21		2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Method Blank - Batch: 220-54809

Method: 8260B
Preparation: 5030B

Lab Sample ID:	MB 220-54809/3	Analysis Batch:	220-54809	Instrument ID:	MSW
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	W4827.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1215	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1215				
Leach Date:	N/A				

Analyte	Result	Qual	RL
4-Methyl-2-pentanone (MIBK)	ND		2.0
Methyl tert-butyl ether	ND		0.50
Naphthalene	ND		0.50
N-Propylbenzene	ND		0.50
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Toluene	ND		0.50
Tetrachloroethene	ND		0.50
Tetrahydrofuran	ND		2.0
1,2,3-Trichlorobenzene	ND		0.50
1,2,4-Trichlorobenzene	ND		0.50
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		0.50
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl chloride	ND		0.50
m-Xylene & p-Xylene	ND		1.0
o-Xylene	ND		0.50
Xylenes, Total	ND		1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107	70 - 130
4-Bromofluorobenzene	76	70 - 130
Dibromofluoromethane	115	70 - 130
Toluene-d8 (Surr)	88	70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-54809

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-54809/2	Analysis Batch:	220-54809	Instrument ID:	MSW
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	W4823.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1100	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1100				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 220-54809/9	Analysis Batch:	220-54809	Instrument ID:	MSW
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	W4825.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1125	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1125				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Acetone	69	84	70 - 130	18	30	*	
Acrylonitrile	102	103	70 - 130	2	30		
Benzene	117	104	70 - 130	11	30		
Bromobenzene	82	78	70 - 130	6	30		
n-Butylbenzene	86	75	70 - 130	13	30		
sec-Butylbenzene	89	78	70 - 130	14	30		
tert-Butylbenzene	87	80	70 - 130	8	30		
Dichlorobromomethane	109	100	70 - 130	9	30		
Bromoform	86	84	70 - 130	3	30		
Bromomethane	120	124	70 - 130	3	30		
2-Butanone (MEK)	82	100	70 - 130	20	30		
Chlorobenzene	91	79	70 - 130	14	30		
Carbon disulfide	113	100	70 - 130	13	30		
Carbon tetrachloride	120	108	70 - 130	10	30		
Chloroethane	121	118	70 - 130	2	30		
Chloroform	112	96	70 - 130	15	30		
Chloromethane	115	118	70 - 130	3	30		
2-Chlorotoluene	88	79	70 - 130	11	30		
4-Chlorotoluene	93	80	70 - 130	14	30		
Chlorodibromomethane	84	76	70 - 130	9	30		
1,2-Dibromo-3-Chloropropane	73	71	70 - 130	2	30		
Ethylene Dibromide	91	84	70 - 130	8	30		
Dibromomethane	108	101	70 - 130	6	30		
1,2-Dichlorobenzene	81	70	70 - 130	15	30		
1,3-Dichlorobenzene	82	75	70 - 130	10	30		
1,4-Dichlorobenzene	81	75	70 - 130	7	30		
trans-1,4-Dichloro-2-butene	86	79	70 - 130	9	30		
Dichlorodifluoromethane	116	106	70 - 130	8	30		
1,1-Dichloroethane	120	105	70 - 130	14	30		
1,2-Dichloroethane	104	95	70 - 130	9	30		
1,1-Dichloroethene	125	106	70 - 130	17	30		
cis-1,2-Dichloroethene	109	100	70 - 130	9	30		
trans-1,2-Dichloroethene	115	108	70 - 130	6	30		
1,2-Dichloropropane	115	103	70 - 130	11	30		
1,3-Dichloropropane	91	85	70 - 130	6	30		
2,2-Dichloropropane	123	109	70 - 130	12	30		

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 220-54809

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-54809/2	Analysis Batch:	220-54809	Instrument ID:	MSW
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	W4823.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1100	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1100				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 220-54809/9	Analysis Batch:	220-54809	Instrument ID:	MSW
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	W4825.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	09/14/2011 1125	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	09/14/2011 1125				
Leach Date:	N/A				

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1-Dichloropropene	116	103	70 - 130	11	30		
cis-1,3-Dichloropropene	108	96	70 - 130	11	30		
trans-1,3-Dichloropropene	103	93	70 - 130	10	30		
Ethylbenzene	97	87	70 - 130	11	30		
Hexachlorobutadiene	58	52	70 - 130	11	30	*	*
2-Hexanone	84	79	70 - 130	6	30		
Isopropylbenzene	91	81	70 - 130	11	30		
4-Isopropyltoluene	86	77	70 - 130	11	30		
Methylene Chloride	99	91	70 - 130	8	30		
4-Methyl-2-pentanone (MIBK)	91	88	70 - 130	4	30		
Methyl tert-butyl ether	102	100	70 - 130	2	30		
Naphthalene	66	63	70 - 130	5	30	*	*
N-Propylbenzene	90	80	70 - 130	12	30		
Styrene	93	78	70 - 130	18	30		
1,1,1,2-Tetrachloroethane	92	82	70 - 130	11	30		
1,1,2,2-Tetrachloroethane	88	81	70 - 130	8	30		
Toluene	104	84	70 - 130	21	30		
Tetrachloroethene	101	90	70 - 130	11	30		
Tetrahydrofuran	98	101	70 - 130	3	30		
1,2,3-Trichlorobenzene	70	63	70 - 130	11	30		*
1,2,4-Trichlorobenzene	68	61	70 - 130	12	30	*	*
1,1,1-Trichloroethane	120	113	70 - 130	6	30		
1,1,2-Trichloroethane	112	99	70 - 130	12	30		
Trichloroethene	118	102	70 - 130	15	30		
Trichlorofluoromethane	104	104	70 - 130	1	30		
1,2,3-Trichloropropane	76	85	70 - 130	11	30		
1,1,2-Trichloro-1,2,2-trifluoroethane	125	101	70 - 130	22	30		
1,2,4-Trimethylbenzene	84	78	70 - 130	7	30		
1,3,5-Trimethylbenzene	88	78	70 - 130	12	30		
Vinyl chloride	120	122	70 - 130	2	30		
m-Xylene & p-Xylene	98	81	70 - 130	18	30		
o-Xylene	95	81	70 - 130	16	30		
Xylenes, Total	97	81	70 - 130	18	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	107	104	70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	82	79	70 - 130
Dibromofluoromethane	113	113	70 - 130
Toluene-d8 (Surr)	96	91	70 - 130

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 220-54809

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-54809/2	Units: ug/L	LCSD Lab Sample ID:	LCSD 220-54809/9
Client Matrix:	Water		Client Matrix:	Water
Dilution:	1.0		Dilution:	1.0
Analysis Date:	09/14/2011 1100		Analysis Date:	09/14/2011 1125
Prep Date:	09/14/2011 1100		Prep Date:	09/14/2011 1125
Leach Date:	N/A		Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual
Acetone	10.0	10.0	6.95	*	8.36
Acrylonitrile	20.0	20.0	20.3		20.7
Benzene	10.0	10.0	11.7		10.4
Bromobenzene	10.0	10.0	8.24		7.75
n-Butylbenzene	10.0	10.0	8.55		7.48
sec-Butylbenzene	10.0	10.0	8.93		7.77
tert-Butylbenzene	10.0	10.0	8.70		8.01
Dichlorobromomethane	10.0	10.0	10.9		9.97
Bromoform	10.0	10.0	8.62		8.40
Bromomethane	10.0	10.0	12.0		12.4
2-Butanone (MEK)	10.0	10.0	8.20		10.0
Chlorobenzene	10.0	10.0	9.12		7.91
Carbon disulfide	10.0	10.0	11.3		9.96
Carbon tetrachloride	10.0	10.0	12.0		10.8
Chloroethane	10.0	10.0	12.1		11.8
Chloroform	10.0	10.0	11.2		9.64
Chloromethane	10.0	10.0	11.5		11.8
2-Chlorotoluene	10.0	10.0	8.80		7.90
4-Chlorotoluene	10.0	10.0	9.27		8.03
Chlorodibromomethane	10.0	10.0	8.40		7.65
1,2-Dibromo-3-Chloropropane	10.0	10.0	7.27		7.12
Ethylene Dibromide	10.0	10.0	9.11		8.43
Dibromomethane	10.0	10.0	10.8		10.1
1,2-Dichlorobenzene	10.0	10.0	8.10		6.99
1,3-Dichlorobenzene	10.0	10.0	8.21		7.46
1,4-Dichlorobenzene	10.0	10.0	8.06		7.51
trans-1,4-Dichloro-2-butene	20.0	20.0	17.3		15.8
Dichlorodifluoromethane	10.0	10.0	11.6		10.6
1,1-Dichloroethane	10.0	10.0	12.0		10.5
1,2-Dichloroethane	10.0	10.0	10.4		9.51
1,1-Dichloroethene	10.0	10.0	12.5		10.6
cis-1,2-Dichloroethene	10.0	10.0	10.9		10.0
trans-1,2-Dichloroethene	10.0	10.0	11.5		10.8
1,2-Dichloropropane	10.0	10.0	11.5		10.3
1,3-Dichloropropane	10.0	10.0	9.08		8.53
2,2-Dichloropropane	10.0	10.0	12.3		10.9
1,1-Dichloropropene	10.0	10.0	11.6		10.3
cis-1,3-Dichloropropene	10.0	10.0	10.8		9.64
trans-1,3-Dichloropropene	10.0	10.0	10.3		9.26

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16485-1

Laboratory Control/
Laboratory Duplicate Data Report - Batch: 220-54809

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID:	LCS 220-54809/2	Units: ug/L		LCSD Lab Sample ID:	LCSD 220-54809/9
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	09/14/2011 1100			Analysis Date:	09/14/2011 1125
Prep Date:	09/14/2011 1100			Prep Date:	09/14/2011 1125
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual		LCSD Result/Qual	
Ethylbenzene	10.0	10.0	9.71		8.71	
Hexachlorobutadiene	10.0	10.0	5.79	*	5.20	*
2-Hexanone	10.0	10.0	8.42		7.95	
Isopropylbenzene	10.0	10.0	9.06		8.15	
4-Isopropyltoluene	10.0	10.0	8.60		7.70	
Methylene Chloride	10.0	10.0	9.92		9.14	
4-Methyl-2-pentanone (MIBK)	10.0	10.0	9.14		8.76	
Methyl tert-butyl ether	10.0	10.0	10.2		10.0	
Naphthalene	10.0	10.0	6.65	*	6.30	*
N-Propylbenzene	10.0	10.0	9.02		8.00	
Styrene	10.0	10.0	9.34		7.83	
1,1,1,2-Tetrachloroethane	10.0	10.0	9.18		8.22	
1,1,2,2-Tetrachloroethane	10.0	10.0	8.76		8.08	
Toluene	10.0	10.0	10.4		8.39	
Tetrachloroethene	10.0	10.0	10.1		9.02	
Tetrahydrofuran	20.0	20.0	19.6		20.2	
1,2,3-Trichlorobenzene	10.0	10.0	7.01		6.30	*
1,2,4-Trichlorobenzene	10.0	10.0	6.83	*	6.08	*
1,1,1-Trichloroethane	10.0	10.0	12.0		11.3	
1,1,2-Trichloroethane	10.0	10.0	11.2		9.86	
Trichloroethene	10.0	10.0	11.8		10.2	
Trichlorofluoromethane	10.0	10.0	10.4		10.4	
1,2,3-Trichloropropane	10.0	10.0	7.61		8.51	
1,1,2-Trichloro-1,2,2-trifluoroethane	10.0	10.0	12.5		10.1	
1,2,4-Trimethylbenzene	10.0	10.0	8.40		7.84	
1,3,5-Trimethylbenzene	10.0	10.0	8.83		7.82	
Vinyl chloride	10.0	10.0	12.0		12.2	
m-Xylene & p-Xylene	20.0	20.0	19.5		16.2	
o-Xylene	10.0	10.0	9.46		8.08	
Xylenes, Total	30.0	30.0	29.0		24.3	

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: Jeremy C. / Sam R.	TAT Required (business days): Standarts	Lab PM/Contact: Jill D	COC Number: 21116
Company: LEA	Mobile/Field Number: 860-250-5910		Lab Job Number (Lab Use Only): 220-16485	Page ___ of ___
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [✓] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville CT, 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only): Gun 4 4.9oc	
Phone: 860-747-6181	WO #:			
Email:	Project #: 515L902.003	State Regulatory QC Criteria Requirements:	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL Southington CT	SSOW#:			

Samples shipped to TestAmerica Worksheet # TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOCs 8260B								Comments
1	1239898	9/13/11	10:21	Aq	NO				3				X								
2	1239901	9/13/11	1326	Aq	NO				3				X								
3	1239910	9/13/11	1326	Aq	NO				3				X								
4	1239909	9/13/11	8:30	Aq	NO				3				X								
5	1239908	9/13/11	15:00	Aq	NO				3				X								
6	1239906	9/13/11	13:45	Aq	NO				3				X								Field Filtered
7	1239900	9/13/11	1345	Aq	NO				3				X								
8	1239899	9/13/11	10:21	Aq	NO				3				X								
9	1239905	9/13/11	15:21	Aq	NO				3				X								
10	1239902	9/13/11	1546	Aq	NO				3				X								

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	9/13/11 16:09	LEA	[signature]	9/13/11 1601	TACT
[signature]	9/13/11 1813	TACT	[signature]	9/13/11 1915	TACT

Comments: CT RCP Report GA Residential

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-16485-1

Login Number: 16485
List Number: 1
Creator: Hall, Scott R

List Source: TestAmerica Connecticut

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.9C IR#4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

Historical Internal Chain of Custody

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O	ICOC ID	ICOC Date
220-16485	1	1239898	Water	220-661780	220-16485-A-1	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	1	1239898	Water	220-661781	220-16485-B-1	Voa Vial 40ml - Hydrochloric Acid					
220-16485	1	1239898	Water	220-661782	220-16485-C-1	Voa Vial 40ml - Hydrochloric Acid					
220-16485	2	1239901	Water	220-661783	220-16485-A-2	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	2	1239901	Water	220-661784	220-16485-B-2	Voa Vial 40ml - Hydrochloric Acid					
220-16485	2	1239901	Water	220-661785	220-16485-C-2	Voa Vial 40ml - Hydrochloric Acid					
220-16485	3	1239910	Water	220-661786	220-16485-A-3	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	3	1239910	Water	220-661787	220-16485-B-3	Voa Vial 40ml - Hydrochloric Acid					
220-16485	3	1239910	Water	220-661788	220-16485-C-3	Voa Vial 40ml - Hydrochloric Acid					
220-16485	4	1239909	Water	220-661789	220-16485-A-4	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	4	1239909	Water	220-661790	220-16485-B-4	Voa Vial 40ml - Hydrochloric Acid					
220-16485	4	1239909	Water	220-661791	220-16485-C-4	Voa Vial 40ml - Hydrochloric Acid					
220-16485	5	1239908	Water	220-661792	220-16485-A-5	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	5	1239908	Water	220-661793	220-16485-B-5	Voa Vial 40ml - Hydrochloric Acid					
220-16485	5	1239908	Water	220-661794	220-16485-C-5	Voa Vial 40ml - Hydrochloric Acid					
220-16485	6	1239906	Water	220-661795	220-16485-A-6	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	6	1239906	Water	220-661796	220-16485-B-6	Voa Vial 40ml - Hydrochloric Acid					
220-16485	6	1239906	Water	220-661797	220-16485-C-6	Voa Vial 40ml - Hydrochloric Acid					
220-16485	7	1239900	Water	220-661798	220-16485-A-7	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	7	1239900	Water	220-661799	220-16485-B-7	Voa Vial 40ml - Hydrochloric Acid					
220-16485	7	1239900	Water	220-661800	220-16485-C-7	Voa Vial 40ml - Hydrochloric Acid					
220-16485	8	1239899	Water	220-661801	220-16485-A-8	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	8	1239899	Water	220-661802	220-16485-B-8	Voa Vial 40ml - Hydrochloric Acid					
220-16485	8	1239899	Water	220-661803	220-16485-C-8	Voa Vial 40ml - Hydrochloric Acid					
220-16485	9	1239905	Water	220-661804	220-16485-A-9	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	9	1239905	Water	220-661805	220-16485-B-9	Voa Vial 40ml - Hydrochloric Acid					
220-16485	9	1239905	Water	220-661806	220-16485-C-9	Voa Vial 40ml - Hydrochloric Acid					
220-16485	10	1239902	Water	220-661807	220-16485-A-10	Voa Vial 40ml - Hydrochloric Acid	VOA lab	Kostrzewska,	I	220-10248	09/14/11 11:19
220-16485	10	1239902	Water	220-661808	220-16485-B-10	Voa Vial 40ml - Hydrochloric Acid					
220-16485	10	1239902	Water	220-661809	220-16485-C-10	Voa Vial 40ml - Hydrochloric Acid					

ANALYTICAL REPORT

Job Number: 220-16510-1

Job Description: UTC-Old Southington Landfill

For:
Loureiro Engineering Associates, P.C.
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trazski

Approved for release.
Joan Widomski
Project Manager I
9/26/2011 4:31 PM

Designee for
Jill M Duhancik
Project Manager II
jill.duhancik@testamericainc.com
09/26/2011

cc: Ms. Heather Grimm

The test results in this report meet all NELAP requirements unless specified within the case narrative. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Project Manager.

TestAmerica Connecticut Certifications and Approvals: CTDOH PH-047, MADEP CT023, RIDOH A43, NYDOH 10602, NY NELAP 10602, NHDES 2528, NJDEP CT410, ME DOH CT023, UT DOH 2032614458

TestAmerica Laboratories, Inc.
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Tel (203) 929-8140 Fax (203) 929-8142 www.testamericainc.com

Job Number: 220-16510-1

Job Description: UTC-Old Southington Landfill

I certify that this data package is in compliance with United Technologies Corporation Environmental Laboratory Program, Chem_03: Analytical Minimum Standards for Laboratories - June 2008, Rev. 4. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Project Manager or his/her designee, as verified by the following signature.

Approved for release.
Joan Widomski
Project Manager I
9/26/2011 4:31 PM

Designee for
Jill M Duhancik

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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Burlington**	***Client:***	**Loureiro Engineering Asst.**
Project Location:	**Southington, CT**	***Project Number:***	**22003928**
Laboratory Sample ID (s):	**220-16510-1 through 220-16510-4**	***Sampling Date (s):***	**09/13/11 and 09/14/11**
RCP Method:	**TO-15**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6℃)?	Yes	N/A √	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes √		No
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes		No √
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes		No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes		No √
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Sara Goff Position: Project Manager

Printed Name: Sara Goff Date: September 26, 2011

The certification form has been electronically signed and approved.

Updated November 2007

CTDEP PH-0751

TestAmerica Burlington
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CASE NARRATIVE

Client: Loureiro Engineering Associates, P.C.

Project: UTC-Old Southington Landfill

Report Number: 220-16510-1

This case narrative is in the form of an exception report, where only the anomalies related to this report, method specific performance and/or QA/QC issues are discussed. If there are no issues to report, this narrative will include a statement that documents that there are no relevant data issues.

It should be noted that samples with elevated Reporting Limits (RLs) as a result of a dilution may not be able to satisfy customer reporting limits in some cases. Such increases in the RLs are unavoidable but acceptable consequence of sample dilution that enables quantification of target analytes or interferences which exceed the calibration range of the instrument.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

As per the State of Connecticut Reasonable Confidence Protocol (CTRCP), a Laboratory Analysis QA/QC Certification Form has been provided with this report.

RECEIPT
The samples were received on 09/14/2011; the samples arrived in good condition.

Note: All samples which require thermal preservation are considered acceptable if the arrival temperature is within 2C of the required temperature or method specified range. For samples with a specified temperature of 4C, samples with a temperature ranging from just above freezing temperature of water to 6C shall be acceptable. Samples that are hand delivered immediately following collection may not meet these criteria, however they will be deemed acceptable according to NELAC standards, if there is evidence that the chilling process has begun, such as arrival on ice, etc.

VOLATILE ORGANIC COMPOUNDS IN AMBIENT AIR
Samples 220-16510-1 through 220-16510-4 were analyzed for Volatile Organic Compounds in Ambient Air in accordance with TO-15 Volatile Organic Compounds in Ambient Air. The samples were analyzed on 09/22/2011 and 09/23/2011.

The volatile organics analyses for the samples in this delivery group were accomplished at dilution based on screen analyses, to ensure quantitation of all target constituents within the range of calibrated instrument response. Results from the additional more concentrated analyses have been presented if performed.

The samples referenced above were analyzed for the compounds referenced in the CT RCP TO-15 method. Acrylonitrile, 1,3 Dichloropropane, and 1,1,1,2 - Tetrachloroethane were evaluated as TICs in the samples, as these compounds are not part of the laboratory's TO-15 calibration.

Samples 220-16510-3 and 220-16510-4(10X) required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the TO15 analyses.

All quality control parameters were within the acceptance limits.

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Laboratory Chronicle

Lab ID: 220-16510-1 **Client ID: 1238362**

Sample Date/Time: 09/13/2011 10:00 Received Date/Time: 09/14/2011 18:13

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	220-16510-A-1		200-25738		09/23/2011 08:58	1	TAL BUR	DPD
A:TO-15	220-16510-A-1		200-25738		09/23/2011 08:58	1	TAL BUR	DPD

Lab ID: 220-16510-2 **Client ID: 1238363**

Sample Date/Time: 09/13/2011 10:06 Received Date/Time: 09/14/2011 18:13

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	220-16510-A-2		200-25738		09/23/2011 09:50	1	TAL BUR	DPD
A:TO-15	220-16510-A-2		200-25738		09/23/2011 09:50	1	TAL BUR	DPD

Lab ID: 220-16510-3 **Client ID: 1238364**

Sample Date/Time: 09/14/2011 09:55 Received Date/Time: 09/14/2011 18:13

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	220-16510-A-3		200-25738		09/22/2011 17:14	10	TAL BUR	DPD
A:TO-15	220-16510-A-3		200-25738		09/22/2011 17:14	10	TAL BUR	DPD

Lab ID: 220-16510-4 **Client ID: 1238365**

Sample Date/Time: 09/14/2011 10:28 Received Date/Time: 09/14/2011 18:13

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	220-16510-A-4		200-25738		09/22/2011 18:07	10	TAL BUR	DPD
A:TO-15	220-16510-A-4		200-25738		09/22/2011 18:07	10	TAL BUR	DPD

Lab ID: MB **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	MB 200-25738/4		200-25738		09/22/2011 14:37	1	TAL BUR	DPD
A:TO-15	MB 200-25738/4		200-25738		09/22/2011 14:37	1	TAL BUR	DPD

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Laboratory Chronicle

Lab ID: LCS **Client ID: N/A**

Sample Date/Time: N/A Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:Summa Canister	LCS 200-25738/3		200-25738		09/22/2011 13:44	1	TAL BUR	DPD
A:TO-15	LCS 200-25738/3		200-25738		09/22/2011 13:44	1	TAL BUR	DPD

Lab References:
TAL BUR = TestAmerica Burlington

METHOD SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Method	Analyst	Analyst ID
EPA TO-15	Downing, David P	DPD

SAMPLE SUMMARY

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
220-16510-1	1238362	Air	09/13/2011 1000	09/14/2011 1813
220-16510-2	1238363	Air	09/13/2011 1006	09/14/2011 1813
220-16510-3	1238364	Air	09/14/2011 0955	09/14/2011 1813
220-16510-4	1238365	Air	09/14/2011 1028	09/14/2011 1813

SAMPLE RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238362**

Lab Sample ID: 220-16510-1 Date Sampled: 09/13/2011 1000
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf025.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/23/2011 0858			Final Weight/Volume:	200 mL
Prep Date:	09/23/2011 0858			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Acetone	20		5.0
Benzene	0.51		0.20
Bromodichloromethane	0.20	U	0.20
Bromoform	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Chloroethane	0.50	U	0.50
Chloroform	0.20	U	0.20
Chloromethane	0.84		0.50
cis-1,2-Dichloroethene	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
Isopropylbenzene	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Dichlorodifluoromethane	0.88		0.50
1,1-Dichloroethane	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Ethylbenzene	0.43		0.20
4-Isopropyltoluene	0.20		0.20
Methylene Chloride	0.50	U	0.50
2-Butanone (MEK)	1.7		0.50
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
m,p-Xylene	1.2		0.50
n-Butylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
Styrene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Toluene	3.2		0.20
trans-1,2-Dichloroethene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
Trichlorofluoromethane	0.30		0.20
1,2,4-Trimethylbenzene	0.44		0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
Vinyl chloride	0.20	U	0.20
o-Xylene	0.42		0.20
Xylene (total)	1.7		0.20
Dibromochloromethane	0.20	U	0.20

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238362**

Lab Sample ID: 220-16510-1 Date Sampled: 09/13/2011 1000
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf025.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/23/2011 0858			Final Weight/Volume:	200 mL
Prep Date:	09/23/2011 0858			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Acetone	48		12
Benzene	1.6		0.64
Bromodichloromethane	1.3	U	1.3
Bromoform	2.1	U	2.1
Carbon tetrachloride	1.3	U	1.3
Chlorobenzene	0.92	U	0.92
Chloroethane	1.3	U	1.3
Chloroform	0.98	U	0.98
Chloromethane	1.7		1.0
cis-1,2-Dichloroethene	0.79	U	0.79
cis-1,3-Dichloropropene	0.91	U	0.91
Isopropylbenzene	0.98	U	0.98
1,2-Dibromoethane	1.5	U	1.5
1,2-Dichlorobenzene	1.2	U	1.2
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Dichlorodifluoromethane	4.4		2.5
1,1-Dichloroethane	0.81	U	0.81
1,2-Dichloroethane	0.81	U	0.81
1,1-Dichloroethene	0.79	U	0.79
1,2-Dichloropropane	0.92	U	0.92
Ethylbenzene	1.8		0.87
4-Isopropyltoluene	1.1		1.1
Methylene Chloride	1.7	U	1.7
2-Butanone (MEK)	4.9		1.5
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0
Methyl tert-butyl ether	0.72	U	0.72
m,p-Xylene	5.4		2.2
n-Butylbenzene	1.1	U	1.1
sec-Butylbenzene	1.1	U	1.1
Styrene	0.85	U	0.85
1,1,2,2-Tetrachloroethane	1.4	U	1.4
Tetrachloroethene	1.4	U	1.4
Toluene	12		0.75
trans-1,2-Dichloroethene	0.79	U	0.79
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,1-Trichloroethane	1.1	U	1.1
1,1,2-Trichloroethane	1.1	U	1.1
Trichloroethene	1.1	U	1.1
Trichlorofluoromethane	1.7		1.1
1,2,4-Trimethylbenzene	2.2		0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
Vinyl chloride	0.51	U	0.51
o-Xylene	1.8		0.87
Xylene (total)	7.2		0.87
Dibromochloromethane	1.7	U	1.7

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: 1238362

Lab Sample ID: 220-16510-1 Date Sampled: 09/13/2011 1000
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf025.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/23/2011 0858			Final Weight/Volume:	200 mL
Prep Date:	09/23/2011 0858			Injection Volume:	200 mL

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238362**

Lab Sample ID: 220-16510-1 Date Sampled: 09/13/2011 1000
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf025.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/23/2011 0858			Final Weight/Volume:	200 mL
Prep Date:	09/23/2011 0858			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238363**

Lab Sample ID: 220-16510-2 Date Sampled: 09/13/2011 1006
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf026.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/23/2011 0950			Final Weight/Volume:	200 mL
Prep Date:	09/23/2011 0950			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Acetone	11		5.0
Benzene	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
Bromoform	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Chloroethane	0.50	U	0.50
Chloroform	0.20	U	0.20
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
Isopropylbenzene	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Dichlorodifluoromethane	0.77		0.50
1,1-Dichloroethane	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Ethylbenzene	0.26		0.20
4-Isopropyltoluene	0.21		0.20
Methylene Chloride	0.50	U	0.50
2-Butanone (MEK)	0.92		0.50
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
m,p-Xylene	0.77		0.50
n-Butylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
Styrene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Toluene	1.8		0.20
trans-1,2-Dichloroethene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Trichloroethene	0.61		0.20
Trichlorofluoromethane	0.29		0.20
1,2,4-Trimethylbenzene	0.42		0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
Vinyl chloride	0.20	U	0.20
o-Xylene	0.27		0.20
Xylene (total)	1.0		0.20
Dibromochloromethane	0.20	U	0.20

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238363**

Lab Sample ID: 220-16510-2 Date Sampled: 09/13/2011 1006
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf026.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/23/2011 0950			Final Weight/Volume:	200 mL
Prep Date:	09/23/2011 0950			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Acetone	27		12
Benzene	0.64	U	0.64
Bromodichloromethane	1.3	U	1.3
Bromoform	2.1	U	2.1
Carbon tetrachloride	1.3	U	1.3
Chlorobenzene	0.92	U	0.92
Chloroethane	1.3	U	1.3
Chloroform	0.98	U	0.98
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	0.79	U	0.79
cis-1,3-Dichloropropene	0.91	U	0.91
Isopropylbenzene	0.98	U	0.98
1,2-Dibromoethane	1.5	U	1.5
1,2-Dichlorobenzene	1.2	U	1.2
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Dichlorodifluoromethane	3.8		2.5
1,1-Dichloroethane	0.81	U	0.81
1,2-Dichloroethane	0.81	U	0.81
1,1-Dichloroethene	0.79	U	0.79
1,2-Dichloropropane	0.92	U	0.92
Ethylbenzene	1.1		0.87
4-Isopropyltoluene	1.1		1.1
Methylene Chloride	1.7	U	1.7
2-Butanone (MEK)	2.7		1.5
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0
Methyl tert-butyl ether	0.72	U	0.72
m,p-Xylene	3.4		2.2
n-Butylbenzene	1.1	U	1.1
sec-Butylbenzene	1.1	U	1.1
Styrene	0.85	U	0.85
1,1,2,2-Tetrachloroethane	1.4	U	1.4
Tetrachloroethene	1.4	U	1.4
Toluene	6.7		0.75
trans-1,2-Dichloroethene	0.79	U	0.79
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,1-Trichloroethane	1.1	U	1.1
1,1,2-Trichloroethane	1.1	U	1.1
Trichloroethene	3.3		1.1
Trichlorofluoromethane	1.6		1.1
1,2,4-Trimethylbenzene	2.0		0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
Vinyl chloride	0.51	U	0.51
o-Xylene	1.2		0.87
Xylene (total)	4.5		0.87
Dibromochloromethane	1.7	U	1.7

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238363**

Lab Sample ID: 220-16510-2 Date Sampled: 09/13/2011 1006
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf026.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/23/2011 0950			Final Weight/Volume:	200 mL
Prep Date:	09/23/2011 0950			Injection Volume:	200 mL

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238363**

Lab Sample ID: 220-16510-2 Date Sampled: 09/13/2011 1006
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf026.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	09/23/2011 0950			Final Weight/Volume:	200 mL
Prep Date:	09/23/2011 0950			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238364**

Lab Sample ID: 220-16510-3 Date Sampled: 09/14/2011 0955
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf007.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 1714			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1714			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Acetone	50	U	50
Benzene	3.9		2.0
Bromodichloromethane	2.0	U	2.0
Bromoform	2.0	U	2.0
Carbon tetrachloride	2.0	U	2.0
Chlorobenzene	2.0	U	2.0
Chloroethane	5.0	U	5.0
Chloroform	2.0	U	2.0
Chloromethane	5.0	U	5.0
cis-1,2-Dichloroethene	2.0	U	2.0
cis-1,3-Dichloropropene	2.0	U	2.0
Isopropylbenzene	2.0	U	2.0
1,2-Dibromoethane	2.0	U	2.0
1,2-Dichlorobenzene	2.0	U	2.0
1,3-Dichlorobenzene	2.0	U	2.0
1,4-Dichlorobenzene	2.0	U	2.0
Dichlorodifluoromethane	5.0	U	5.0
1,1-Dichloroethane	2.0	U	2.0
1,2-Dichloroethane	2.0	U	2.0
1,1-Dichloroethene	2.0	U	2.0
1,2-Dichloropropane	2.0	U	2.0
Ethylbenzene	4.7		2.0
4-Isopropyltoluene	2.0	U	2.0
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	5.0	U	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Methyl tert-butyl ether	2.0	U	2.0
m,p-Xylene	16		5.0
n-Butylbenzene	2.0	U	2.0
sec-Butylbenzene	2.0	U	2.0
Styrene	2.0	U	2.0
1,1,2,2-Tetrachloroethane	2.0	U	2.0
Tetrachloroethene	2.0	U	2.0
Toluene	26		2.0
trans-1,2-Dichloroethene	2.0	U	2.0
trans-1,3-Dichloropropene	2.0	U	2.0
1,1,1-Trichloroethane	2.0	U	2.0
1,1,2-Trichloroethane	2.0	U	2.0
Trichloroethene	2.0	U	2.0
Trichlorofluoromethane	5.4		2.0
1,2,4-Trimethylbenzene	7.3		2.0
1,3,5-Trimethylbenzene	2.1		2.0
Vinyl chloride	2.0	U	2.0
o-Xylene	5.7		2.0
Xylene (total)	21		2.0
Dibromochloromethane	2.0	U	2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238364**

Lab Sample ID: 220-16510-3 Date Sampled: 09/14/2011 0955
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf007.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 1714			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1714			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Acetone	120	U	120
Benzene	12		6.4
Bromodichloromethane	13	U	13
Bromoform	21	U	21
Carbon tetrachloride	13	U	13
Chlorobenzene	9.2	U	9.2
Chloroethane	13	U	13
Chloroform	9.8	U	9.8
Chloromethane	10	U	10
cis-1,2-Dichloroethene	7.9	U	7.9
cis-1,3-Dichloropropene	9.1	U	9.1
Isopropylbenzene	9.8	U	9.8
1,2-Dibromoethane	15	U	15
1,2-Dichlorobenzene	12	U	12
1,3-Dichlorobenzene	12	U	12
1,4-Dichlorobenzene	12	U	12
Dichlorodifluoromethane	25	U	25
1,1-Dichloroethane	8.1	U	8.1
1,2-Dichloroethane	8.1	U	8.1
1,1-Dichloroethene	7.9	U	7.9
1,2-Dichloropropane	9.2	U	9.2
Ethylbenzene	20		8.7
4-Isopropyltoluene	11	U	11
Methylene Chloride	17	U	17
2-Butanone (MEK)	15	U	15
4-Methyl-2-pentanone (MIBK)	20	U	20
Methyl tert-butyl ether	7.2	U	7.2
m,p-Xylene	69		22
n-Butylbenzene	11	U	11
sec-Butylbenzene	11	U	11
Styrene	8.5	U	8.5
1,1,2,2-Tetrachloroethane	14	U	14
Tetrachloroethene	14	U	14
Toluene	99		7.5
trans-1,2-Dichloroethene	7.9	U	7.9
trans-1,3-Dichloropropene	9.1	U	9.1
1,1,1-Trichloroethane	11	U	11
1,1,2-Trichloroethane	11	U	11
Trichloroethene	11	U	11
Trichlorofluoromethane	30		11
1,2,4-Trimethylbenzene	36		9.8
1,3,5-Trimethylbenzene	10		9.8
Vinyl chloride	5.1	U	5.1
o-Xylene	25		8.7
Xylene (total)	93		8.7
Dibromochloromethane	17	U	17

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: 1238364

Lab Sample ID: 220-16510-3 Date Sampled: 09/14/2011 0955
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf007.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 1714			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1714			Injection Volume:	200 mL

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238364**

Lab Sample ID: 220-16510-3 Date Sampled: 09/14/2011 0955
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf007.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 1714			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1714			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: 1238365

Lab Sample ID: 220-16510-4 Date Sampled: 09/14/2011 1028
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf008.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 1807			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1807			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Acetone	66		50
Benzene	2.0	U	2.0
Bromodichloromethane	2.0	U	2.0
Bromoform	2.0	U	2.0
Carbon tetrachloride	2.0	U	2.0
Chlorobenzene	2.0	U	2.0
Chloroethane	5.0	U	5.0
Chloroform	2.0	U	2.0
Chloromethane	5.0	U	5.0
cis-1,2-Dichloroethene	2.0	U	2.0
cis-1,3-Dichloropropene	2.0	U	2.0
Isopropylbenzene	2.0	U	2.0
1,2-Dibromoethane	2.0	U	2.0
1,2-Dichlorobenzene	2.0	U	2.0
1,3-Dichlorobenzene	2.0	U	2.0
1,4-Dichlorobenzene	2.0	U	2.0
Dichlorodifluoromethane	5.0	U	5.0
1,1-Dichloroethane	2.0	U	2.0
1,2-Dichloroethane	2.0	U	2.0
1,1-Dichloroethene	2.0	U	2.0
1,2-Dichloropropane	2.0	U	2.0
Ethylbenzene	5.1		2.0
4-Isopropyltoluene	2.0	U	2.0
Methylene Chloride	5.0	U	5.0
2-Butanone (MEK)	5.0	U	5.0
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Methyl tert-butyl ether	2.0	U	2.0
m,p-Xylene	15		5.0
n-Butylbenzene	2.0	U	2.0
sec-Butylbenzene	2.0	U	2.0
Styrene	2.0	U	2.0
1,1,2,2-Tetrachloroethane	2.0	U	2.0
Tetrachloroethene	5.8		2.0
Toluene	15		2.0
trans-1,2-Dichloroethene	2.0	U	2.0
trans-1,3-Dichloropropene	2.0	U	2.0
1,1,1-Trichloroethane	6.3		2.0
1,1,2-Trichloroethane	2.0	U	2.0
Trichloroethene	2.0	U	2.0
Trichlorofluoromethane	7.4		2.0
1,2,4-Trimethylbenzene	7.7		2.0
1,3,5-Trimethylbenzene	2.3		2.0
Vinyl chloride	2.0	U	2.0
o-Xylene	5.3		2.0
Xylene (total)	20		2.0
Dibromochloromethane	2.0	U	2.0

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238365**

Lab Sample ID: 220-16510-4 Date Sampled: 09/14/2011 1028
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf008.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 1807			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1807			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Acetone	160		120
Benzene	6.4	U	6.4
Bromodichloromethane	13	U	13
Bromoform	21	U	21
Carbon tetrachloride	13	U	13
Chlorobenzene	9.2	U	9.2
Chloroethane	13	U	13
Chloroform	9.8	U	9.8
Chloromethane	10	U	10
cis-1,2-Dichloroethene	7.9	U	7.9
cis-1,3-Dichloropropene	9.1	U	9.1
Isopropylbenzene	9.8	U	9.8
1,2-Dibromoethane	15	U	15
1,2-Dichlorobenzene	12	U	12
1,3-Dichlorobenzene	12	U	12
1,4-Dichlorobenzene	12	U	12
Dichlorodifluoromethane	25	U	25
1,1-Dichloroethane	8.1	U	8.1
1,2-Dichloroethane	8.1	U	8.1
1,1-Dichloroethene	7.9	U	7.9
1,2-Dichloropropane	9.2	U	9.2
Ethylbenzene	22		8.7
4-Isopropyltoluene	11	U	11
Methylene Chloride	17	U	17
2-Butanone (MEK)	15	U	15
4-Methyl-2-pentanone (MIBK)	20	U	20
Methyl tert-butyl ether	7.2	U	7.2
m,p-Xylene	63		22
n-Butylbenzene	11	U	11
sec-Butylbenzene	11	U	11
Styrene	8.5	U	8.5
1,1,2,2-Tetrachloroethane	14	U	14
Tetrachloroethene	40		14
Toluene	56		7.5
trans-1,2-Dichloroethene	7.9	U	7.9
trans-1,3-Dichloropropene	9.1	U	9.1
1,1,1-Trichloroethane	34		11
1,1,2-Trichloroethane	11	U	11
Trichloroethene	11	U	11
Trichlorofluoromethane	42		11
1,2,4-Trimethylbenzene	38		9.8
1,3,5-Trimethylbenzene	11		9.8
Vinyl chloride	5.1	U	5.1
o-Xylene	23		8.7
Xylene (total)	87		8.7
Dibromochloromethane	17	U	17

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: 1238365

Lab Sample ID: 220-16510-4 Date Sampled: 09/14/2011 1028
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf008.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 1807			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1807			Injection Volume:	200 mL

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Client Sample ID: **1238365**

Lab Sample ID: 220-16510-4 Date Sampled: 09/14/2011 1028
Client Matrix: Air Date Received: 09/14/2011 1813

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-25738	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkhf008.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	09/22/2011 1807			Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1807			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found: 0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-25738					
LCS 200-25738/3	Lab Control Sample	T	Air	TO-15	
MB 200-25738/4	Method Blank	T	Air	TO-15	
220-16510-1	1238362	T	Air	TO-15	
220-16510-2	1238363	T	Air	TO-15	
220-16510-3	1238364	T	Air	TO-15	
220-16510-4	1238365	T	Air	TO-15	

Report Basis
T = Total

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Method Blank - Batch: 200-25738

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-25738/4	Analysis Batch:	200-25738	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhf004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/22/2011 1437	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1437			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Acetone	5.0	U	5.0
Benzene	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
Bromoform	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Chloroethane	0.50	U	0.50
Chloroform	0.20	U	0.20
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
Isopropylbenzene	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
Dichlorodifluoromethane	0.50	U	0.50
1,1-Dichloroethane	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
Methylene Chloride	0.50	U	0.50
2-Butanone (MEK)	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
n-Butylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
Styrene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Toluene	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
Trichlorofluoromethane	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
Vinyl chloride	0.20	U	0.20
o-Xylene	0.20	U	0.20
Xylene (total)	0.20	U	0.20

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-16510-1

Method Blank - Batch: 200-25738

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-25738/4	Analysis Batch:	200-25738	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhf004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/22/2011 1437	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1437			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dibromochloromethane	0.20	U	0.20

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Method Blank - Batch: 200-25738

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-25738/4	Analysis Batch:	200-25738	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhf004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/22/2011 1437	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1437			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Acetone	12	U	12
Benzene	0.64	U	0.64
Bromodichloromethane	1.3	U	1.3
Bromoform	2.1	U	2.1
Carbon tetrachloride	1.3	U	1.3
Chlorobenzene	0.92	U	0.92
Chloroethane	1.3	U	1.3
Chloroform	0.98	U	0.98
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	0.79	U	0.79
cis-1,3-Dichloropropene	0.91	U	0.91
Isopropylbenzene	0.98	U	0.98
1,2-Dibromoethane	1.5	U	1.5
1,2-Dichlorobenzene	1.2	U	1.2
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
Dichlorodifluoromethane	2.5	U	2.5
1,1-Dichloroethane	0.81	U	0.81
1,2-Dichloroethane	0.81	U	0.81
1,1-Dichloroethene	0.79	U	0.79
1,2-Dichloropropane	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
4-Isopropyltoluene	1.1	U	1.1
Methylene Chloride	1.7	U	1.7
2-Butanone (MEK)	1.5	U	1.5
4-Methyl-2-pentanone (MIBK)	2.0	U	2.0
Methyl tert-butyl ether	0.72	U	0.72
m,p-Xylene	2.2	U	2.2
n-Butylbenzene	1.1	U	1.1
sec-Butylbenzene	1.1	U	1.1
Styrene	0.85	U	0.85
1,1,2,2-Tetrachloroethane	1.4	U	1.4
Tetrachloroethene	1.4	U	1.4
Toluene	0.75	U	0.75
trans-1,2-Dichloroethene	0.79	U	0.79
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,1-Trichloroethane	1.1	U	1.1
1,1,2-Trichloroethane	1.1	U	1.1
Trichloroethene	1.1	U	1.1
Trichlorofluoromethane	1.1	U	1.1
1,2,4-Trimethylbenzene	0.98	U	0.98
1,3,5-Trimethylbenzene	0.98	U	0.98
Vinyl chloride	0.51	U	0.51
o-Xylene	0.87	U	0.87
Xylene (total)	0.87	U	0.87

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-16510-1

Method Blank - Batch: 200-25738

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-25738/4	Analysis Batch:	200-25738	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhf004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/22/2011 1437	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1437			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dibromochloromethane	1.7	U	1.7

Method Blank TICs- Batch: 200-25738

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Lab Control Sample - Batch: 200-25738

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-25738/3	Analysis Batch:	200-25738	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkhf003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	09/22/2011 1344	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	09/22/2011 1344			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Acetone	10.0	10.6	106	70 - 130	
Benzene	10.0	9.91	99	70 - 130	
Bromodichloromethane	10.0	10.4	104	70 - 130	
Bromoform	10.0	11.0	110	70 - 130	
Carbon tetrachloride	10.0	10.0	100	70 - 130	
Chlorobenzene	10.0	9.66	97	70 - 130	
Chloroethane	10.0	10.3	103	70 - 130	
Chloroform	10.0	10.1	101	70 - 130	
Chloromethane	10.0	10.1	101	70 - 130	
cis-1,2-Dichloroethene	10.0	10.5	105	70 - 130	
cis-1,3-Dichloropropene	10.0	9.91	99	70 - 130	
Isopropylbenzene	10.0	9.97	100	70 - 130	
1,2-Dibromoethane	10.0	10.1	101	70 - 130	
1,2-Dichlorobenzene	10.0	9.22	92	70 - 130	
1,3-Dichlorobenzene	10.0	9.60	96	70 - 130	
1,4-Dichlorobenzene	10.0	9.55	96	70 - 130	
Dichlorodifluoromethane	10.0	10.7	107	70 - 130	
1,1-Dichloroethane	10.0	10.1	101	70 - 130	
1,2-Dichloroethane	10.0	9.74	97	70 - 130	
1,1-Dichloroethene	10.0	11.1	111	70 - 130	
1,2-Dichloropropane	10.0	9.79	98	70 - 130	
Ethylbenzene	10.0	9.80	98	70 - 130	
4-Isopropyltoluene	10.0	10.3	103	70 - 130	
Methylene Chloride	10.0	10.7	107	70 - 130	
2-Butanone (MEK)	10.0	9.50	95	70 - 130	
4-Methyl-2-pentanone (MIBK)	10.0	10.2	102	70 - 130	
Methyl tert-butyl ether	10.0	10.1	101	70 - 130	
m,p-Xylene	20.0	20.0	100	70 - 130	
n-Butylbenzene	10.0	10.4	104	70 - 130	
sec-Butylbenzene	10.0	9.90	99	70 - 130	
Styrene	10.0	10.1	101	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.74	97	70 - 130	
Tetrachloroethene	10.0	9.76	98	70 - 130	
Toluene	10.0	9.79	98	70 - 130	
trans-1,2-Dichloroethene	10.0	10.1	101	70 - 130	
trans-1,3-Dichloropropene	10.0	9.87	99	70 - 130	
1,1,1-Trichloroethane	10.0	9.94	99	70 - 130	
1,1,2-Trichloroethane	10.0	9.64	96	70 - 130	
Trichloroethene	10.0	9.95	100	70 - 130	
Trichlorofluoromethane	10.0	10.3	103	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.71	97	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.88	99	70 - 130	
Vinyl chloride	10.0	10.1	101	70 - 130	
o-Xylene	10.0	9.73	97	70 - 130	
Dibromochloromethane	10.0	10.7	107	70 - 130	

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

16510

Client Contact Information	Project Manager: David Fiereck	Samples Collected By: Luke Chmielecki	1 of 1 COCs
Company: LEA	Phone: 860-747-6181		
Address: 100 Northwest Dr	Email:		
City/State/Zip Plainville CT 06062			
Phone: 860-747-6181	Site Contact: Joe Trzask		
FAX:	TA Contact: Jill Duhancik		
Project Name: 61SL902.003	**Analysis Turnaround Time**		
Site: Old Southington Landfill	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1238362 (1)	9-13-11	1000	1450	-30	-10	5198	5086	X											
1238363 (2)	9-13-11	1006	1451	-30	-10	3737	4467	X											
1238364 (3)	9-14-11	9:55	16:01	-30	-8	3168	3081	X											
1238365 (4)	9-14-11	10:28	16:22	-30	-9	3946	4469	X											

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by:	Date/Time: 9-13-11 1630	Received by:
Relinquished by:	Date/Time: 9/14/11 1813	Received by: 9-14-11 1813

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates, P.C. Job Number: 220-16510-1

Login Number: 16510 **List Source: TestAmerica Connecticut**
List Number: 1
Creator: Teixeira, Maria L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
Samples were received on ice.	N/A	
Cooler Temperature is acceptable.	N/A	
Cooler Temperature is recorded.	N/A	
COC is present.	N/A	
COC is filled out in ink and legible.	N/A	
COC is filled out with all pertinent information.	N/A	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the sample IDs on the containers and the COC.	N/A	
Samples are received within Holding Time.	N/A	
Sample containers have legible labels.	N/A	
Containers are not broken or leaking.	N/A	
Sample collection date/times are provided.	N/A	
Appropriate sample containers are used.	N/A	
Sample bottles are completely filled.	N/A	
Sample Preservation Verified	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
If necessary, staff have been informed of any short hold time or quick TAT needs	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates, P.C.

Job Number: 220-16510-1

Login Number: 16510
List Number: 1
Creator: Keeton, Jamie

List Source: TestAmerica Burlington
List Creation: 09/16/11 05:00 PM

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	NO CUSTODY SEAL NUMBERS
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Duhancik, Jill M	Carrier Tracking No(s):	COC No: 220-10268.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jill.duhancik@testamericainc.com		Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.				Job #: 220-16510-1
Address: 30 Community Drive, Suite 11,	Due Date Requested: 9/22/2011			
City: South Burlington	TAT Requested (days):			
State, Zip: VT, 05403				
Phone: 802-660-1990(Tel)	PO #:			
Email:	WO #:			
Project Name: UTC-Old Southington Landfill (AIRS)	Project #: 22003928			
Site:	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 - Client ID (Lab ID)	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)	TO15/Air_Summa_Can (MOD) Subset of OLIN.sub	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
1238362 (220-16510-1)	9/13/11	10:00 Eastern		Air			X	1	
1238363 (220-16510-2)	9/13/11	10:06 Eastern		Air			X	1	
1238364 (220-16510-3)	9/14/11	09:55 Eastern		Air			X	1	
1238365 (220-16510-4)	9/14/11	10:28 Eastern		Air			X	1	

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: BLOM	Date/Time: 9/15/11 1450	Company: TA CT	Received by:		Date/Time: 09/16/11 1020	Company: THBUR
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.: N/A	Cooler Temperature(s) °C and Other Remarks: AMBIENT

Historical Internal Chain of Custody

Login	Smp	Customer Sample ID	Matrix	Container ID	Lab Sample ID	Container Type	Location	Custody User	I/O	ICOC ID	ICOC Date
220-16510	1	1238362	Air	220-662726	220-16510-A-1	Summa Canister 6L	Air-Storage	Keeton, Jamie	I	200-4575	09/16/11 17:01
220-16510	1	1238362	Air	220-662726	220-16510-A-1	Summa Canister 6L	Shared Samples In-Transi	Blocker, Kristina	O	220-10268	09/15/11 14:49
220-16510	2	1238363	Air	220-662727	220-16510-A-2	Summa Canister 6L	Air-Storage	Keeton, Jamie	I	200-4575	09/16/11 17:01
220-16510	2	1238363	Air	220-662727	220-16510-A-2	Summa Canister 6L	Shared Samples In-Transi	Blocker, Kristina	O	220-10268	09/15/11 14:49
220-16510	3	1238364	Air	220-662728	220-16510-A-3	Summa Canister 6L	Air-Storage	Keeton, Jamie	I	200-4575	09/16/11 17:01
220-16510	3	1238364	Air	220-662728	220-16510-A-3	Summa Canister 6L	Shared Samples In-Transi	Blocker, Kristina	O	220-10268	09/15/11 14:49
220-16510	4	1238365	Air	220-662729	220-16510-A-4	Summa Canister 6L	Air-Storage	Keeton, Jamie	I	200-4575	09/16/11 17:01
220-16510	4	1238365	Air	220-662729	220-16510-A-4	Summa Canister 6L	Shared Samples In-Transi	Blocker, Kristina	O	220-10268	09/15/11 14:49

ANALYTICAL REPORT

Job Number: 360-38116-1

Job Description: Old Southington Landfill Groundwater

For:
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trzaski

Approved for release.
Steve Hartmann
Service Center Manager
7/22/2014 12:37 PM

Designee for
Aaron Benoit, Project Manager I
Westfield Executive Park, Westfield, MA, 01085
aaron.benoit@testamericainc.com
07/22/2014
Revision: 3

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NELAP NH DES 2539, NELAP NY 10843, NY ELAP 10843, North Carolina 647. Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	TestAmerica Westfield	***Client:***	**LEA**
Project Location:	**Old Southington Landfill**	***Project Number:***	**360-38116-1**
Laboratory Sample ID (s):	**360-38116-1 [1-15]**	***Sampling Date (s):***	**12/12/11**
Method:	**SW 846 8260B**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6°C)?	Yes √	N/A	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes		No √
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes √		No
	b) Were these reporting limits met?	Yes	N/A	No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes √		No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence. This form may not be altered and all questions must be answered.

This Certification form is to be used for RCP methods only

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Laboratory Director

Printed Name: Steve Hartmann Date: 12/19/11 14:22

The certification form has been electronically signed and approved. Updated Nov 2007

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

WI-QA-038

Revision III: Per client request, this report was revised on 7/22/2014 to update the additional sample identifications: 360-38116-3 from 1246260F to 1246255, 360-38116-8 from 1246264F to 1246256, 360-38116-9 from 1246258F to 1246257, and 360-38116-15 from 1246269 (1 vile) to 1246269 (1 vial).

Revision II: This report was revised on 12/28/2011 to update sample 360-38116-12's ID from 1246466 to 1246266.

Revision I: Report was revised on 12/28/2011 to provide lower reporting limits (RLs) for several compounds per client request. This final report replaces the final report generated on 12/19/2011.

CASE NARRATIVE

Client: Loureiro Engineering Associates

Project: Old Southington Landfill Groundwater

Report Number: 360-38116-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Regarding questions 5a and 5b on the CT RCP certification form, the laboratory has evaluated reporting limits against the most stringent class criteria in the absence of a specified class on the chain-of-custody.

RECEIPT

The samples were received on 12/12/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 4.2 C.

Note: All samples that require thermal preservation are considered acceptable if the arrival temperature is within the method's specified temperature range or for general analysis, ranging from 6°C to just above the freezing temperature of water. Samples that are hand delivered, immediately following collection, may not meet these criteria; however, they will be considered acceptable according to NELAC and State standards, if there is evidence that the chilling process has begun, such as stored and transported to the laboratory on ice.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples 1246261 (360-38116-1), 1246260 (360-38116-2), 1246255 (360-38116-3), 1246259 (360-38116-4), 1246258 (360-38116-5), 1246258F (360-38116-6), 1246264 (360-38116-7), 1246256 (360-38116-8), 1246257 (360-38116-9), 1246265 (360-38116-10), 1246263 (360-38116-11), 1246266 (360-38116-12), 1246268 (360-38116-13), 1246267 (360-38116-14) and 1246269 (1 vial) (360-38116-15) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B (RCP). The samples were analyzed on 12/14/2011.

The continuing calibration verification (CCV) for analytical batch 84793 exceeded control criteria for Carbon Tetrachloride (high), trans-1,4-dichloro-2butene (low).

The LCS Duplicate (LCSD) on this method is only reported for general QA/QC purposes. The LCSD is not part of the CT-RCP program and any outliers associated with this standard have not been evaluated against question (4) on the RCP Laboratory Analysis QA/QC Certification form.

trans-1,4-Dichloro-2-butene failed the recovery criteria low for LCS 360-84793/3. Carbon disulfide and Carbon tetrachloride failed the recovery criteria high. Refer to the QC report for details.

Due to the limited volume provided, the following sample(s) were run at dilutions: 1246269 (1 vial) (360-38116-15) [2x]. Elevated reporting limits (RLs) are provided.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
360-38116-3	**1246255**					
Toluene		2.7		0.50	ug/L	8260
360-38116-6	**1246258F**					
Toluene		3.4		0.50	ug/L	8260
360-38116-7	**1246264**					
cis-1,2-Dichloroethene		5.1		0.50	ug/L	8260
Methyl tert-butyl ether		2.0		0.50	ug/L	8260
Vinyl chloride		1.8		0.50	ug/L	8260
360-38116-8	**1246256**					
cis-1,2-Dichloroethene		1.1		0.50	ug/L	8260
Methyl tert-butyl ether		1.9		0.50	ug/L	8260
Toluene		2.4		0.50	ug/L	8260
360-38116-11	**1246263**					
1,1-Dichloroethane		0.56		0.50	ug/L	8260
cis-1,2-Dichloroethene		0.55		0.50	ug/L	8260
Methyl tert-butyl ether		0.53		0.50	ug/L	8260
Vinyl chloride		3.8		0.50	ug/L	8260
360-38116-12	**1246266**					
cis-1,2-Dichloroethene		0.54		0.50	ug/L	8260
Methyl tert-butyl ether		0.53		0.50	ug/L	8260
Vinyl chloride		3.5		0.50	ug/L	8260
360-38116-14	**1246267**					
2-Butanone (MEK)		7.8		5.0	ug/L	8260
Toluene		0.56		0.50	ug/L	8260

METHOD SUMMARY

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL WFD	SW846 8260	
Purge and Trap	TAL WFD		SW846 5030B

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Method	Analyst	Analyst ID
SW846 8260	Hartmann, Tam	TH

SAMPLE SUMMARY

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-38116-1	1246261	Water	12/12/2011 1556	12/12/2011 1805
360-38116-2	1246260	Water	12/12/2011 1442	12/12/2011 1805
360-38116-3	1246255	Water	12/12/2011 1442	12/12/2011 1805
360-38116-4	1246259	Water	12/12/2011 1226	12/12/2011 1805
360-38116-5	1246258	Water	12/12/2011 1052	12/12/2011 1805
360-38116-6	1246258F	Water	12/12/2011 1052	12/12/2011 1805
360-38116-7	1246264	Water	12/12/2011 1316	12/12/2011 1805
360-38116-8	1246256	Water	12/12/2011 1316	12/12/2011 1805
360-38116-9	1246257	Water	12/12/2011 1036	12/12/2011 1805
360-38116-10	1246265	Water	12/12/2011 1601	12/12/2011 1805
360-38116-11	1246263	Water	12/12/2011 1236	12/12/2011 1805
360-38116-12	1246266	Water	12/12/2011 1236	12/12/2011 1805
360-38116-13	1246268	Water	12/12/2011 1200	12/12/2011 1805
360-38116-14	1246267	Water	12/12/2011 1500	12/12/2011 1805
360-38116-15	1246269 (1 vial)	Water	12/12/2011 0845	12/12/2011 1805

SAMPLE RESULTS

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246261**

Lab Sample ID: 360-38116-1

Client Matrix: Water

Date Sampled: 12/12/2011 1556

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23020.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1634			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1634				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246261**

Lab Sample ID: 360-38116-1

Client Matrix: Water

Date Sampled: 12/12/2011 1556

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23020.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1634			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1634				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246260**

Lab Sample ID: 360-38116-2

Client Matrix: Water

Date Sampled: 12/12/2011 1442

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23021.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1656			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1656				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246260**

Lab Sample ID: 360-38116-2

Client Matrix: Water

Date Sampled: 12/12/2011 1442

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23021.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1656			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1656				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	110		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246255**

Lab Sample ID: 360-38116-3

Client Matrix: Water

Date Sampled: 12/12/2011 1442

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23022.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1718			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1718				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246255**

Lab Sample ID: 360-38116-3

Client Matrix: Water

Date Sampled: 12/12/2011 1442

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23022.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1718			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1718				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	2.7		0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	113		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246259**

Lab Sample ID: 360-38116-4

Client Matrix: Water

Date Sampled: 12/12/2011 1226

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23023.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1739			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1739				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246259**

Lab Sample ID: 360-38116-4

Client Matrix: Water

Date Sampled: 12/12/2011 1226

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23023.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1739			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1739				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	110		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246258**

Lab Sample ID: 360-38116-5

Client Matrix: Water

Date Sampled: 12/12/2011 1052

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23024.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1801			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1801				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246258**

Lab Sample ID: 360-38116-5

Client Matrix: Water

Date Sampled: 12/12/2011 1052

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23024.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1801			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1801				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	113		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246258F**

Lab Sample ID: 360-38116-6

Client Matrix: Water

Date Sampled: 12/12/2011 1052

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23025.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1823			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1823				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246258F**

Lab Sample ID: 360-38116-6

Client Matrix: Water

Date Sampled: 12/12/2011 1052

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23025.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1823			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1823				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	3.4		0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246264**

Lab Sample ID: 360-38116-7

Client Matrix: Water

Date Sampled: 12/12/2011 1316

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23026.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1845			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1845				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	5.1		0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246264**

Lab Sample ID: 360-38116-7

Client Matrix: Water

Date Sampled: 12/12/2011 1316

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23026.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1845			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1845				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	2.0		0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	1.8		0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	113		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246256**

Lab Sample ID: 360-38116-8

Client Matrix: Water

Date Sampled: 12/12/2011 1316

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23027.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1906			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1906				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	1.1		0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246256**

Lab Sample ID: 360-38116-8

Client Matrix: Water

Date Sampled: 12/12/2011 1316

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23027.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1906			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1906				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	1.9		0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	2.4		0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	110		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246257**

Lab Sample ID: 360-38116-9

Client Matrix: Water

Date Sampled: 12/12/2011 1036

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23028.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1928			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1928				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246257**

Lab Sample ID: 360-38116-9

Client Matrix: Water

Date Sampled: 12/12/2011 1036

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23028.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1928			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1928				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	97		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246265**

Lab Sample ID: 360-38116-10

Client Matrix: Water

Date Sampled: 12/12/2011 1601

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23029.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1950			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1950				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246265**

Lab Sample ID: 360-38116-10

Client Matrix: Water

Date Sampled: 12/12/2011 1601

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23029.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1950			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1950				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	111		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246263**

Lab Sample ID: 360-38116-11

Client Matrix: Water

Date Sampled: 12/12/2011 1236

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23030.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2012			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2012				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.56		0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.55		0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246263**

Lab Sample ID: 360-38116-11

Client Matrix: Water

Date Sampled: 12/12/2011 1236

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23030.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2012			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2012				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.53		0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	3.8		0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	96		70 - 130
Dibromofluoromethane	113		70 - 130
Toluene-d8 (Surr)	101		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246266**

Lab Sample ID: 360-38116-12

Client Matrix: Water

Date Sampled: 12/12/2011 1236

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23031.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2033			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2033				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.54		0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246266**

Lab Sample ID: 360-38116-12

Client Matrix: Water

Date Sampled: 12/12/2011 1236

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23031.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2033			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2033				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.53		0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	3.5		0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	98		70 - 130
Dibromofluoromethane	113		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246268**

Lab Sample ID: 360-38116-13

Client Matrix: Water

Date Sampled: 12/12/2011 1200

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23032.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2055			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2055				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246268**

Lab Sample ID: 360-38116-13

Client Matrix: Water

Date Sampled: 12/12/2011 1200

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23032.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2055			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2055				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	111		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246267**

Lab Sample ID: 360-38116-14

Client Matrix: Water

Date Sampled: 12/12/2011 1500

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23033.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2117			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2117				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	7.8		5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U *	0.50
Carbon tetrachloride	0.50	U *	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246267**

Lab Sample ID: 360-38116-14

Client Matrix: Water

Date Sampled: 12/12/2011 1500

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23033.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2117			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2117				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.56		0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U *	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	95		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246269 (1 vial)**

Lab Sample ID: 360-38116-15

Client Matrix: Water

Date Sampled: 12/12/2011 0845

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23034.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2139			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2139				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,1-Dichloropropene	1.0	U	1.0
1,2,3-Trichlorobenzene	2.0	U	2.0
1,2,3-Trichloropropane	1.0	U	1.0
1,2,4-Trichlorobenzene	2.0	U	2.0
1,2,4-Trimethylbenzene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	10	U	10
1,2-Dichlorobenzene	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
1,3,5-Trimethylbenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,3-Dichloropropane	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
2,2-Dichloropropane	2.0	U	2.0
2-Butanone (MEK)	10	U	10
2-Chlorotoluene	1.0	U	1.0
2-Hexanone	10	U	10
4-Chlorotoluene	1.0	U	1.0
4-Isopropyltoluene	1.0	U	1.0
4-Methyl-2-pentanone (MIBK)	10	U	10
Acetone	20	U	20
Acrylonitrile	1.0	U	1.0
Benzene	1.0	U	1.0
Bromobenzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	2.0	U	2.0
Carbon disulfide	1.0	U *	1.0
Carbon tetrachloride	1.0	U *	1.0
Chlorobenzene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	1.0	U	1.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	1.0	U	1.0
cis-1,3-Dichloropropene	0.80	U	0.80
Dibromomethane	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	1.0	U	1.0
Ethylbenzene	1.0	U	1.0

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Client Sample ID: **1246269 (1 vial)**

Lab Sample ID: 360-38116-15

Client Matrix: Water

Date Sampled: 12/12/2011 0845

Date Received: 12/12/2011 1805

8260 Volatile Organic Compounds (GC/MS)

Analysis Method:	8260	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V23034.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 2139			Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 2139				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	2.0	U	2.0
Hexachlorobutadiene	1.0	U	1.0
Isopropylbenzene	1.0	U	1.0
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	1.0	U	1.0
Methylene Chloride	4.0	U	4.0
n-Butylbenzene	1.0	U	1.0
N-Propylbenzene	1.0	U	1.0
Naphthalene	4.0	U	4.0
o-Xylene	1.0	U	1.0
sec-Butylbenzene	1.0	U	1.0
Styrene	1.0	U	1.0
tert-Butylbenzene	2.0	U	2.0
Tetrachloroethene	1.0	U	1.0
Tetrahydrofuran	10	U	10
Toluene	1.0	U	1.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	1.0	U	1.0
trans-1,4-Dichloro-2-butene	2.0	U *	2.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	99		70 - 130
Dibromofluoromethane	112		70 - 130
Toluene-d8 (Surr)	100		70 - 130

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:360-84793					
LCS 360-84793/3	Lab Control Sample	T	Water	8260	
LCSD 360-84793/4	Lab Control Sample Duplicate	T	Water	8260	
MB 360-84793/6	Method Blank	T	Water	8260	
360-38116-1	1246261	T	Water	8260	
360-38116-2	1246260	T	Water	8260	
360-38116-3	1246255	T	Water	8260	
360-38116-4	1246259	T	Water	8260	
360-38116-5	1246258	T	Water	8260	
360-38116-6	1246258F	T	Water	8260	
360-38116-7	1246264	T	Water	8260	
360-38116-8	1246256	T	Water	8260	
360-38116-9	1246257	T	Water	8260	
360-38116-10	1246265	T	Water	8260	
360-38116-11	1246263	T	Water	8260	
360-38116-12	1246266	T	Water	8260	
360-38116-13	1246268	T	Water	8260	
360-38116-14	1246267	T	Water	8260	
360-38116-15	1246269 (1 vial)	T	Water	8260	

Report Basis

T = Total

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Surrogate Recovery Report

8260 Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
360-38116-1	1246261	98	112	99
360-38116-2	1246260	95	110	100
360-38116-3	1246255	96	113	98
360-38116-4	1246259	95	110	101
360-38116-5	1246258	95	113	100
360-38116-6	1246258F	97	112	101
360-38116-7	1246264	98	113	98
360-38116-8	1246256	96	110	99
360-38116-9	1246257	97	112	101
360-38116-10	1246265	96	111	100
360-38116-11	1246263	96	113	101
360-38116-12	1246266	98	113	100
360-38116-13	1246268	95	111	100
360-38116-14	1246267	95	112	100
360-38116-15	1246269 (1 vial)	99	112	100
MB 360-84793/6		97	111	99
LCS 360-84793/3		97	111	102
LCSD 360-84793/4		96	111	103

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Method Blank - Batch: 360-84793

Method: 8260
Preparation: 5030B

Lab Sample ID:	MB 360-84793/6	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V23019.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1536	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1536				
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	0.50	U	0.50
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Method Blank - Batch: 360-84793

Method: 8260
Preparation: 5030B

Lab Sample ID:	MB 360-84793/6	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V23019.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1536	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1536				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Ethylbenzene	0.50	U	0.50
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.50	U	0.50
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	1.0	U	1.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	2.0	U	2.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.50	U	0.50
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	97	70 - 130
Dibromofluoromethane	111	70 - 130
Toluene-d8 (Surr)	99	70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-84793

Method: 8260
Preparation: 5030B

LCS Lab Sample ID:	LCS 360-84793/3	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V23016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1430	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1430				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 360-84793/4	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V23017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1452	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1452				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	112	109	70 - 130	3	25		
1,1,1-Trichloroethane	123	117	70 - 130	5	25		
1,1,2,2-Tetrachloroethane	78	78	70 - 130	1	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	111	102	70 - 130	8	25		
1,1,2-Trichloroethane	97	96	70 - 130	1	25		
1,1-Dichloroethane	101	96	70 - 130	6	25		
1,1-Dichloroethene	113	106	70 - 130	6	25		
1,1-Dichloropropene	106	100	70 - 130	6	25		
1,2,3-Trichlorobenzene	95	95	70 - 130	1	25		
1,2,3-Trichloropropane	97	96	70 - 130	1	25		
1,2,4-Trichlorobenzene	101	101	70 - 130	0	25		
1,2,4-Trimethylbenzene	104	100	70 - 130	3	25		
1,2-Dibromo-3-Chloropropane	97	97	70 - 130	0	25		
1,2-Dichlorobenzene	97	97	70 - 130	1	25		
1,2-Dichloroethane	107	105	70 - 130	2	25		
1,2-Dichloropropane	88	85	70 - 130	3	25		
1,3,5-Trimethylbenzene	102	100	70 - 130	2	25		
1,3-Dichlorobenzene	111	108	70 - 130	3	25		
1,3-Dichloropropane	95	95	70 - 130	1	25		
1,4-Dichlorobenzene	99	97	70 - 130	2	25		
2,2-Dichloropropane	119	112	70 - 130	6	25		
2-Butanone (MEK)	75	76	70 - 130	1	25		
2-Chlorotoluene	96	93	70 - 130	4	25		
2-Hexanone	75	79	70 - 130	5	25		
4-Chlorotoluene	98	94	70 - 130	5	25		
4-Isopropyltoluene	110	107	70 - 130	3	25		
4-Methyl-2-pentanone (MIBK)	74	75	70 - 130	2	25		
Acetone	78	79	70 - 130	2	25		
Acrylonitrile	83	84	70 - 130	2	25		
Benzene	101	97	70 - 130	4	25		
Bromobenzene	87	84	70 - 130	4	25		
Bromoform	103	103	70 - 130	0	25		
Bromomethane	104	102	70 - 130	2	25		
Carbon disulfide	139	127	70 - 130	9	25	*	
Carbon tetrachloride	142	132	70 - 130	7	25	*	

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-84793

Method: 8260
Preparation: 5030B

LCS Lab Sample ID:	LCS 360-84793/3	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V23016.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1430	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1430				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 360-84793/4	Analysis Batch:	360-84793	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V23017.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	12/14/2011 1452	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	12/14/2011 1452				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chlorobenzene	104	102	70 - 130	2	25		
Chlorodibromomethane	114	114	70 - 130	0	25		
Chloroethane	87	82	70 - 130	5	25		
Chloroform	105	100	70 - 130	5	25		
Chloromethane	76	73	70 - 130	4	25		
cis-1,2-Dichloroethene	95	92	70 - 130	3	25		
cis-1,3-Dichloropropene	99	98	70 - 130	1	25		
Dibromomethane	103	105	70 - 130	2	25		
Dichlorobromomethane	108	106	70 - 130	2	25		
Dichlorodifluoromethane	108	102	70 - 130	6	25		
Ethylbenzene	97	93	70 - 130	4	25		
Ethylene Dibromide	106	107	70 - 130	0	25		
Hexachlorobutadiene	107	104	70 - 130	3	25		
Isopropylbenzene	102	98	70 - 130	4	25		
m-Xylene & p-Xylene	100	96	70 - 130	5	25		
Methyl tert-butyl ether	107	106	70 - 130	1	25		
Methylene Chloride	105	103	70 - 130	2	25		
n-Butylbenzene	90	86	70 - 130	4	25		
N-Propylbenzene	99	94	70 - 130	5	25		
Naphthalene	85	85	70 - 130	0	25		
o-Xylene	100	96	70 - 130	4	25		
sec-Butylbenzene	99	95	70 - 130	4	25		
Styrene	102	99	70 - 130	3	25		
tert-Butylbenzene	104	102	70 - 130	2	25		
Tetrachloroethene	125	118	70 - 130	5	25		
Tetrahydrofuran	80	79	70 - 130	1	25		
Toluene	102	97	70 - 130	5	25		
trans-1,2-Dichloroethene	99	95	70 - 130	4	25		
trans-1,3-Dichloropropene	105	105	70 - 130	0	25		
trans-1,4-Dichloro-2-butene	64	68	70 - 130	6	25	*	
Trichloroethene	107	104	70 - 130	2	25		
Trichlorofluoromethane	111	105	70 - 130	5	25		
Vinyl chloride	86	82	70 - 130	5	25		
Xylenes, Total	100	96	70 - 130	4	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	97	96	70 - 130
Dibromofluoromethane	111	111	70 - 130
Toluene-d8 (Surr)	102	103	70 - 130

State Accreditation Matrix

Method Name	Description	State where **Primary** Accreditation is Carried		
		New Hampshire (NELAC)	Mass	Conn
821-R-02-012	Toxicity, Acute (48-Hour)(list upon request)	NP		
SM 4500 Cl F	Chlorine, Residual		NP	
SM 9215E	Heterotrophic Plate Count (SimPlate)		P	
SM 9222D	Coliforms, Fecal (Membrane Filter)		P/NP	
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P	
SM 9224	Coliforms, Total, and E.Coli (Enumeration)		P	
1103.1	E.coli		ambient/ source	
Enterolert	Enterococcus			
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P	
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P	
6010B/C	Metals (ICP)(list upon request)	NP/SW		
245.1	Mercury (CVAA)	NP/P	NP	
7470A	Mercury (CVAA)	NP		
7471A	Mercury (CVAA)	SW		
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP	
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P		
3010A	Preparation, Total Metals	NP/P		
3020A	Preparation, Total Metals	NP/P/SW		
3050B	Preparation, Metals	SW		
504.1	EDB, DBCP and 1,2,3-TCP (GC)	P	P	
608	Organochlorine Pest/PCBs (list upon request)	NP	NP	
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP	
3546	Microwave Extraction	SW		
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP		
3550B	Ultrasonic Extraction	SW		
8081AB	Organochlorine Pesticides (GC)(list upon request)	NP/SW		
8082/A	PCBs by Gas Chromatography(list upon request)	NP/SW		
8270C/D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW		
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW		NP/SW
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW		
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P	
524.2	Trihalomethane compounds	P	P	
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP	
5035	Closed System Purge and Trap	SW		
5030B	Purge and Trap	NP		
8260B/C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW		
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)			
180.1	Turbidity, Nephelometric	P	P	
300	Anions, Ion Chromatography	NP/P	NP/P	
410.4	COD	NP	NP	
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW		
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP	
7196A	Chromium, Hexavalent	NP/SW		
9012A	Cyanide, Total and/or Amenable	NP/SW		
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP		
9045C	pH	SW		
L107041C	Nitrogen, Nitrate	NP	P	
L107-06-1B	Nitrogen Ammonia	NP	NP	
L204001A CN	Cyanide, Total	P	NP/P	
L210-001A	Phenolics, Total Recoverable	NP	NP	
SM 2320B	Alkalinity	NP/P	NP/P	
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P	
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P	
SM 2540D	Solids, Total Suspended (TSS)	NP	NP	
SM 3500 CR D	Chromium, Hexavalent	NP		
SM 4500 H+ B	pH	NP/P	NP/P	
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P	
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP	
SM 4500 P E	Phosphorus, Total	NP	NP	
SM 4500 S2 D	Sulfide, Total	NP		
SM 5210B	BOD, 5-Day	NP	NP	
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP	

Not all organic compounds are accreditied under NELAC
For methods with multiple compounds all compounds may not meet NELAC criteria, listing should be obtained from the laboratory
The lab carries additional accreditations with several states. This is the laboratories typcial listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 360-38116-1

Login Number: 38116

List Source: TestAmerica Westfield

List Number: 1

Creator: Ard, Vanessa L

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Boston Service Center
240 Bear Hill Rd. Suite 104
Waltham, MA 02451
Phone (781) 466-6900 Fax (781) 466-6901

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information

Client Contact: Joe Tezak
Company: LEA
Address: 100 Northwest Dr.
City: Plainville
State, Zip: CT 06067
Phone: 860 747-6181
Email:
Project Name/number: OSL 6156902
Site:

Sampler: Jeremy / Sam
Phone:
Lab PM:
E-Mail:
Carrier Tracking No(s):
COC No:
Page: 1 of 2
Job #:

Due Date Requested:
TAT Requested (days): Standard
Quote #:
PO #:
WO #:
SSOW#:

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs:
MCP ☐ GW1/S1 ☐
RCP CT ☒ CT RSR ☒
DEP Form ☐ EDD Required ☐

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs 8260B CT RSR	HOLD	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
1246261	12/12/11	15:56	G	W	JSR			X			
1246260		14:42						X			
1246260F		14:42						X	X		
1246259		12:26						X			
~~1246258~~ 1246258		10:52						X			
~~1246258F~~ 1246258F		10:52						X	X		
1246264		13:16						X			
1246264F		13:16						X			
1246262		10:36						X			
1246265		16:01						X			

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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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature] LEA	12-12-11 1630		[signature]	12-12-11 1630	
[signature]	12-12-11 1905		[signature]	12/12/11 1905	

Custody Seals Intact: △ Yes △ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.2 / ice

WI-QA-010-rev 6 0511

TestAmerica Westfield
Westfield Executive Park 53 Southampton Road
Westfield, MA 01085
Phone (413) 572-4000 Fax (413) 572-3707

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information				
Sampler: Jeremy Fson	Lab PM:	Carrier Tracking No(s):	COC No: 017680	
Client Contact: Joe Trzaski	Phone:	E-Mail:	Page: 2 of 2	
Company: LEA			Job #:	
Address: 100 Northwest Dr	Due Date Requested:			
City: Plainville, CT	TAT Requested (days): Standard			
State, Zip: CT 06067	Quote #:			
Phone: 860-747-6181	PO #:			
Email:	WO #:			
Project Name/number: GSL	SSOW#:			
Site:				

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, H - Ascorbic Acid, I - Ice, J - DI Water, M - Hexane, N - None, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, Z - other (specify)

Regulatory programs:
MCP ☐ GW1/S1 ☐
RCP ☐ CT RSR ☐
DEP Form ☐ EDD Required ☐

Page 52 of 52

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Sampler's Initials	Field Filtered Sample?	Perform MS/MSD?	VOCs 8260B CT RP	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
1246263	12/12/11	12:36	G	W				X		
~~1246263~~ 1246266		12:36						X		
1246268		12:00						X		
1246267		15:00						X		
1246269 (1 vile)		8:45						X		

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:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	12-12-11 1630		[signature]	12-12-11 1630	
[signature]	12-12-11 1805		[signature]	12/12/11 1805	

Custody Seals Intact: Δ Yes Δ No
Custody Seal No.:
Cooler Temperature(s) °C and Other Remarks: 4.2/1C

TAL-8245-360 0310

ANALYTICAL REPORT

Job Number: 200-8556-1

Job Description: Old Southington Landfill

For:
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trazski

Approved for release.
Kathryn A Kelly
Project Manager I
12/21/2011 2:59 PM

Kathryn A Kelly
Project Manager I
kathryn.kelly@testamericainc.com
12/21/2011

cc: Ms. Heather Grimm

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Burlington**	***Client:***	**Loureiro Engineering Assoc.**
Project Location:	**Old Southington Landfill**	***Project Number:***	**20003506**
Laboratory Sample ID (s):	**200-8556-1 - 200-8556-4**	***Sampling Date (s):***	**12/12/11**
RCP Method:	**TO-15**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6℃)?	Yes	N/A √	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes √		No
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes		No √
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes		No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes		No √
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ Position: Project Manager

Printed Name: Kathryn Kelly Date: 12/21/11 0:00

The certification form has been electronically signed and approved.

Updated November 2007

CTDEP PH-0751

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Tel:(802)660-1990
Fax:(802)660-1919

QAF04800.CT

CASE NARRATIVE

Client: Loureiro Engineering Associates

Project: Old Southington Landfill

Report Number: 200-8556-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 12/14/2011; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples 1246270, 1246271, 1246272 and 1246273 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/16/2011 and 12/17/2011.

Samples 1246272[10X] and 1246273[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The volatile organics analyses for the samples in this delivery group were accomplished at dilution based on screen analyses, to ensure quantitation of all target constituents within the range of calibrated instrument response. Results from the additional more concentrated analyses have been presented if performed.

The samples referenced above were analyzed for the compounds referenced in the CT RCP TO-15 method. Acrylonitrile, 1,3 Dichloropropane, and 1,1,1,2 - Tetrachloroethane were evaluated as TICs in the samples, as these compounds are not part of the laboratory's TO-15 calibration.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-8556-1	**1246270**					
Trichlorofluoromethane		0.20		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.2		1.1	ug/m3	TO-15
Acetone		7.5		5.0	ppb v/v	TO-15
Acetone		18		12	ug/m3	TO-15
Methyl Ethyl Ketone		0.51		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		1.5		1.5	ug/m3	TO-15
Trichloroethene		0.64		0.20	ppb v/v	TO-15
Trichloroethene		3.5		1.1	ug/m3	TO-15
Toluene		0.96		0.20	ppb v/v	TO-15
Toluene		3.6		0.75	ug/m3	TO-15
Ethylbenzene		0.28		0.20	ppb v/v	TO-15
Ethylbenzene		1.2		0.87	ug/m3	TO-15
m,p-Xylene		0.96		0.50	ppb v/v	TO-15
m,p-Xylene		4.2		2.2	ug/m3	TO-15
Xylene, o-		0.33		0.20	ppb v/v	TO-15
Xylene, o-		1.4		0.87	ug/m3	TO-15
Xylene (total)		1.3		0.20	ppb v/v	TO-15
Xylene (total)		5.6		0.87	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.38		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		1.9		0.98	ug/m3	TO-15
200-8556-2	**1246271**					
Trichlorofluoromethane		0.21		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.2		1.1	ug/m3	TO-15
Acetone		8.4		5.0	ppb v/v	TO-15
Acetone		20		12	ug/m3	TO-15
Benzene		0.60		0.20	ppb v/v	TO-15
Benzene		1.9		0.64	ug/m3	TO-15
Toluene		2.5		0.20	ppb v/v	TO-15
Toluene		9.3		0.75	ug/m3	TO-15
Ethylbenzene		0.48		0.20	ppb v/v	TO-15
Ethylbenzene		2.1		0.87	ug/m3	TO-15
m,p-Xylene		1.5		0.50	ppb v/v	TO-15
m,p-Xylene		6.6		2.2	ug/m3	TO-15
Xylene, o-		0.52		0.20	ppb v/v	TO-15
Xylene, o-		2.3		0.87	ug/m3	TO-15
Xylene (total)		2.0		0.20	ppb v/v	TO-15
Xylene (total)		8.9		0.87	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.48		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		2.3		0.98	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-8556-3	**1246272**					
Acetone		50		50	ppb v/v	TO-15
Acetone		120		120	ug/m3	TO-15
Methyl Ethyl Ketone		5.2		5.0	ppb v/v	TO-15
Methyl Ethyl Ketone		15		15	ug/m3	TO-15
Benzene		14		2.0	ppb v/v	TO-15
Benzene		45		6.4	ug/m3	TO-15
Toluene		75		2.0	ppb v/v	TO-15
Toluene		280		7.5	ug/m3	TO-15
Ethylbenzene		7.1		2.0	ppb v/v	TO-15
Ethylbenzene		31		8.7	ug/m3	TO-15
m,p-Xylene		21		5.0	ppb v/v	TO-15
m,p-Xylene		92		22	ug/m3	TO-15
Xylene, o-		6.0		2.0	ppb v/v	TO-15
Xylene, o-		26		8.7	ug/m3	TO-15
Xylene (total)		27		2.0	ppb v/v	TO-15
Xylene (total)		120		8.7	ug/m3	TO-15
1,2,4-Trimethylbenzene		2.2		2.0	ppb v/v	TO-15
1,2,4-Trimethylbenzene		11		9.8	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-8556-4	**1246273**					
Dichlorodifluoromethane		3.8		1.0	ppb v/v	TO-15
Dichlorodifluoromethane		19		4.9	ug/m3	TO-15
Trichlorofluoromethane		2.2		0.40	ppb v/v	TO-15
Trichlorofluoromethane		12		2.2	ug/m3	TO-15
Acetone		29		10	ppb v/v	TO-15
Acetone		70		24	ug/m3	TO-15
Methyl Ethyl Ketone		1.4		1.0	ppb v/v	TO-15
Methyl Ethyl Ketone		4.0		2.9	ug/m3	TO-15
Benzene		4.1		0.40	ppb v/v	TO-15
Benzene		13		1.3	ug/m3	TO-15
Trichloroethene		0.44		0.40	ppb v/v	TO-15
Trichloroethene		2.4		2.1	ug/m3	TO-15
Toluene		20		0.40	ppb v/v	TO-15
Toluene		77		1.5	ug/m3	TO-15
Tetrachloroethene		0.58		0.40	ppb v/v	TO-15
Tetrachloroethene		3.9		2.7	ug/m3	TO-15
Ethylbenzene		2.9		0.40	ppb v/v	TO-15
Ethylbenzene		12		1.7	ug/m3	TO-15
m,p-Xylene		9.1		1.0	ppb v/v	TO-15
m,p-Xylene		39		4.3	ug/m3	TO-15
Xylene, o-		2.6		0.40	ppb v/v	TO-15
Xylene, o-		11		1.7	ug/m3	TO-15
Xylene (total)		12		0.40	ppb v/v	TO-15
Xylene (total)		51		1.7	ug/m3	TO-15
1,3,5-Trimethylbenzene		0.49		0.40	ppb v/v	TO-15
1,3,5-Trimethylbenzene		2.4		2.0	ug/m3	TO-15
1,2,4-Trimethylbenzene		1.7		0.40	ppb v/v	TO-15
1,2,4-Trimethylbenzene		8.2		2.0	ug/m3	TO-15
1,4-Dichlorobenzene		1.6		0.40	ppb v/v	TO-15
1,4-Dichlorobenzene		9.3		2.4	ug/m3	TO-15

METHOD SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Method	Analyst	Analyst ID
EPA TO-15	Daigle, Paul A	PAD

SAMPLE SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-8556-1	1246270	Air	12/12/2011 1500	12/14/2011 1020
200-8556-2	1246271	Air	12/12/2011 1500	12/14/2011 1020
200-8556-3	1246272	Air	12/12/2011 1420	12/14/2011 1020
200-8556-4	1246273	Air	12/12/2011 1420	12/14/2011 1020

SAMPLE RESULTS

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246270**

Lab Sample ID: 200-8556-1

Client Matrix: Air

Date Sampled: 12/12/2011 1500

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd016.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 2231			Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 2231			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.50	U	0.50
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.20		0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	7.5		5.0
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.51		0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
Trichloroethene	0.64		0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.96		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.28		0.20
m,p-Xylene	0.96		0.50
Xylene, o-	0.33		0.20
Xylene (total)	1.3		0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.38		0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246270**

Lab Sample ID: 200-8556-1

Client Matrix: Air

Date Sampled: 12/12/2011 1500

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd016.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 2231			Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 2231			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.5	U	2.5
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.2		1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	18		12
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5		1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
Trichloroethene	3.5		1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	3.6		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	1.2		0.87
m,p-Xylene	4.2		2.2
Xylene, o-	1.4		0.87
Xylene (total)	5.6		0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	1.9		0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
n-Butylbenzene	1.1	U	1.1
1,2-Dichlorobenzene	1.2	U	1.2

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246270**

Lab Sample ID: 200-8556-1

Client Matrix: Air

Date Sampled: 12/12/2011 1500

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd016.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 2231			Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 2231			Injection Volume:	200 mL

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246270**

Lab Sample ID: 200-8556-1

Client Matrix: Air

Date Sampled: 12/12/2011 1500

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd016.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 2231			Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 2231			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246271**

Lab Sample ID: 200-8556-2

Client Matrix: Air

Date Sampled: 12/12/2011 1500

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 2322			Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 2322			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.50	U	0.50
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.21		0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	8.4		5.0
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.60		0.20
1,2-Dichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	2.5		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.48		0.20
m,p-Xylene	1.5		0.50
Xylene, o-	0.52		0.20
Xylene (total)	2.0		0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.48		0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246271**

Lab Sample ID: 200-8556-2

Client Matrix: Air

Date Sampled: 12/12/2011 1500

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 2322			Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 2322			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	2.5	U	2.5
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.2		1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	20		12
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Carbon tetrachloride	1.3	U	1.3
Benzene	1.9		0.64
1,2-Dichloroethane	0.81	U	0.81
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	9.3		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	2.1		0.87
m,p-Xylene	6.6		2.2
Xylene, o-	2.3		0.87
Xylene (total)	8.9		0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	2.3		0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
n-Butylbenzene	1.1	U	1.1
1,2-Dichlorobenzene	1.2	U	1.2

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246271**

Lab Sample ID: 200-8556-2

Client Matrix: Air

Date Sampled: 12/12/2011 1500

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 2322			Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 2322			Injection Volume:	200 mL

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246271**

Lab Sample ID: 200-8556-2

Client Matrix: Air

Date Sampled: 12/12/2011 1500

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd017.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 2322			Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 2322			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246272**

Lab Sample ID: 200-8556-3

Client Matrix: Air

Date Sampled: 12/12/2011 1420

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd018.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	12/17/2011 0015			Final Weight/Volume:	200 mL
Prep Date:	12/17/2011 0015			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	5.0	U	5.0
Chloromethane	5.0	U	5.0
Vinyl chloride	2.0	U	2.0
Chloroethane	5.0	U	5.0
Trichlorofluoromethane	2.0	U	2.0
1,1-Dichloroethene	2.0	U	2.0
Acetone	50		50
Methylene Chloride	5.0	U	5.0
Methyl tert-butyl ether	2.0	U	2.0
trans-1,2-Dichloroethene	2.0	U	2.0
1,1-Dichloroethane	2.0	U	2.0
Methyl Ethyl Ketone	5.2		5.0
cis-1,2-Dichloroethene	2.0	U	2.0
Chloroform	2.0	U	2.0
1,1,1-Trichloroethane	2.0	U	2.0
Carbon tetrachloride	2.0	U	2.0
Benzene	14		2.0
1,2-Dichloroethane	2.0	U	2.0
Trichloroethene	2.0	U	2.0
1,2-Dichloropropane	2.0	U	2.0
Bromodichloromethane	2.0	U	2.0
cis-1,3-Dichloropropene	2.0	U	2.0
methyl isobutyl ketone	5.0	U	5.0
Toluene	75		2.0
trans-1,3-Dichloropropene	2.0	U	2.0
1,1,2-Trichloroethane	2.0	U	2.0
Tetrachloroethene	2.0	U	2.0
Dibromochloromethane	2.0	U	2.0
1,2-Dibromoethane	2.0	U	2.0
Chlorobenzene	2.0	U	2.0
Ethylbenzene	7.1		2.0
m,p-Xylene	21		5.0
Xylene, o-	6.0		2.0
Xylene (total)	27		2.0
Styrene	2.0	U	2.0
Bromoform	2.0	U	2.0
Cumene	2.0	U	2.0
1,1,2,2-Tetrachloroethane	2.0	U	2.0
1,3,5-Trimethylbenzene	2.0	U	2.0
1,2,4-Trimethylbenzene	2.2		2.0
sec-Butylbenzene	2.0	U	2.0
4-Isopropyltoluene	2.0	U	2.0
1,3-Dichlorobenzene	2.0	U	2.0
1,4-Dichlorobenzene	2.0	U	2.0
n-Butylbenzene	2.0	U	2.0
1,2-Dichlorobenzene	2.0	U	2.0

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246272**

Lab Sample ID: 200-8556-3

Client Matrix: Air

Date Sampled: 12/12/2011 1420

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd018.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	12/17/2011 0015			Final Weight/Volume:	200 mL
Prep Date:	12/17/2011 0015			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	25	U	25
Chloromethane	10	U	10
Vinyl chloride	5.1	U	5.1
Chloroethane	13	U	13
Trichlorofluoromethane	11	U	11
1,1-Dichloroethene	7.9	U	7.9
Acetone	120		120
Methylene Chloride	17	U	17
Methyl tert-butyl ether	7.2	U	7.2
trans-1,2-Dichloroethene	7.9	U	7.9
1,1-Dichloroethane	8.1	U	8.1
Methyl Ethyl Ketone	15		15
cis-1,2-Dichloroethene	7.9	U	7.9
Chloroform	9.8	U	9.8
1,1,1-Trichloroethane	11	U	11
Carbon tetrachloride	13	U	13
Benzene	45		6.4
1,2-Dichloroethane	8.1	U	8.1
Trichloroethene	11	U	11
1,2-Dichloropropane	9.2	U	9.2
Bromodichloromethane	13	U	13
cis-1,3-Dichloropropene	9.1	U	9.1
methyl isobutyl ketone	20	U	20
Toluene	280		7.5
trans-1,3-Dichloropropene	9.1	U	9.1
1,1,2-Trichloroethane	11	U	11
Tetrachloroethene	14	U	14
Dibromochloromethane	17	U	17
1,2-Dibromoethane	15	U	15
Chlorobenzene	9.2	U	9.2
Ethylbenzene	31		8.7
m,p-Xylene	92		22
Xylene, o-	26		8.7
Xylene (total)	120		8.7
Styrene	8.5	U	8.5
Bromoform	21	U	21
Cumene	9.8	U	9.8
1,1,2,2-Tetrachloroethane	14	U	14
1,3,5-Trimethylbenzene	9.8	U	9.8
1,2,4-Trimethylbenzene	11		9.8
sec-Butylbenzene	11	U	11
4-Isopropyltoluene	11	U	11
1,3-Dichlorobenzene	12	U	12
1,4-Dichlorobenzene	12	U	12
n-Butylbenzene	11	U	11
1,2-Dichlorobenzene	12	U	12

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246272**

Lab Sample ID: 200-8556-3

Client Matrix: Air

Date Sampled: 12/12/2011 1420

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd018.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	12/17/2011 0015			Final Weight/Volume:	200 mL
Prep Date:	12/17/2011 0015			Injection Volume:	200 mL

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246272**

Lab Sample ID: 200-8556-3

Client Matrix: Air

Date Sampled: 12/12/2011 1420

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd018.d
Dilution:	10			Initial Weight/Volume:	20 mL
Analysis Date:	12/17/2011 0015			Final Weight/Volume:	200 mL
Prep Date:	12/17/2011 0015			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246273**

Lab Sample ID: 200-8556-4

Client Matrix: Air

Date Sampled: 12/12/2011 1420

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd019.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	12/17/2011 0107			Final Weight/Volume:	200 mL
Prep Date:	12/17/2011 0107			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	3.8		1.0
Chloromethane	1.0	U	1.0
Vinyl chloride	0.40	U	0.40
Chloroethane	1.0	U	1.0
Trichlorofluoromethane	2.2		0.40
1,1-Dichloroethene	0.40	U	0.40
Acetone	29		10
Methylene Chloride	1.0	U	1.0
Methyl tert-butyl ether	0.40	U	0.40
trans-1,2-Dichloroethene	0.40	U	0.40
1,1-Dichloroethane	0.40	U	0.40
Methyl Ethyl Ketone	1.4		1.0
cis-1,2-Dichloroethene	0.40	U	0.40
Chloroform	0.40	U	0.40
1,1,1-Trichloroethane	0.40	U	0.40
Carbon tetrachloride	0.40	U	0.40
Benzene	4.1		0.40
1,2-Dichloroethane	0.40	U	0.40
Trichloroethene	0.44		0.40
1,2-Dichloropropane	0.40	U	0.40
Bromodichloromethane	0.40	U	0.40
cis-1,3-Dichloropropene	0.40	U	0.40
methyl isobutyl ketone	1.0	U	1.0
Toluene	20		0.40
trans-1,3-Dichloropropene	0.40	U	0.40
1,1,2-Trichloroethane	0.40	U	0.40
Tetrachloroethene	0.58		0.40
Dibromochloromethane	0.40	U	0.40
1,2-Dibromoethane	0.40	U	0.40
Chlorobenzene	0.40	U	0.40
Ethylbenzene	2.9		0.40
m,p-Xylene	9.1		1.0
Xylene, o-	2.6		0.40
Xylene (total)	12		0.40
Styrene	0.40	U	0.40
Bromoform	0.40	U	0.40
Cumene	0.40	U	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.40
1,3,5-Trimethylbenzene	0.49		0.40
1,2,4-Trimethylbenzene	1.7		0.40
sec-Butylbenzene	0.40	U	0.40
4-Isopropyltoluene	0.40	U	0.40
1,3-Dichlorobenzene	0.40	U	0.40
1,4-Dichlorobenzene	1.6		0.40
n-Butylbenzene	0.40	U	0.40
1,2-Dichlorobenzene	0.40	U	0.40

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246273**

Lab Sample ID: 200-8556-4

Client Matrix: Air

Date Sampled: 12/12/2011 1420

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd019.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	12/17/2011 0107			Final Weight/Volume:	200 mL
Prep Date:	12/17/2011 0107			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	19		4.9
Chloromethane	2.1	U	2.1
Vinyl chloride	1.0	U	1.0
Chloroethane	2.6	U	2.6
Trichlorofluoromethane	12		2.2
1,1-Dichloroethene	1.6	U	1.6
Acetone	70		24
Methylene Chloride	3.5	U	3.5
Methyl tert-butyl ether	1.4	U	1.4
trans-1,2-Dichloroethene	1.6	U	1.6
1,1-Dichloroethane	1.6	U	1.6
Methyl Ethyl Ketone	4.0		2.9
cis-1,2-Dichloroethene	1.6	U	1.6
Chloroform	2.0	U	2.0
1,1,1-Trichloroethane	2.2	U	2.2
Carbon tetrachloride	2.5	U	2.5
Benzene	13		1.3
1,2-Dichloroethane	1.6	U	1.6
Trichloroethene	2.4		2.1
1,2-Dichloropropane	1.8	U	1.8
Bromodichloromethane	2.7	U	2.7
cis-1,3-Dichloropropene	1.8	U	1.8
methyl isobutyl ketone	4.1	U	4.1
Toluene	77		1.5
trans-1,3-Dichloropropene	1.8	U	1.8
1,1,2-Trichloroethane	2.2	U	2.2
Tetrachloroethene	3.9		2.7
Dibromochloromethane	3.4	U	3.4
1,2-Dibromoethane	3.1	U	3.1
Chlorobenzene	1.8	U	1.8
Ethylbenzene	12		1.7
m,p-Xylene	39		4.3
Xylene, o-	11		1.7
Xylene (total)	51		1.7
Styrene	1.7	U	1.7
Bromoform	4.1	U	4.1
Cumene	2.0	U	2.0
1,1,2,2-Tetrachloroethane	2.7	U	2.7
1,3,5-Trimethylbenzene	2.4		2.0
1,2,4-Trimethylbenzene	8.2		2.0
sec-Butylbenzene	2.2	U	2.2
4-Isopropyltoluene	2.2	U	2.2
1,3-Dichlorobenzene	2.4	U	2.4
1,4-Dichlorobenzene	9.3		2.4
n-Butylbenzene	2.2	U	2.2
1,2-Dichlorobenzene	2.4	U	2.4

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246273**

Lab Sample ID: 200-8556-4

Client Matrix: Air

Date Sampled: 12/12/2011 1420

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd019.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	12/17/2011 0107			Final Weight/Volume:	200 mL
Prep Date:	12/17/2011 0107			Injection Volume:	200 mL

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Client Sample ID: **1246273**

Lab Sample ID: 200-8556-4

Client Matrix: Air

Date Sampled: 12/12/2011 1420

Date Received: 12/14/2011 1020

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-30934	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bkjd019.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	12/17/2011 0107			Final Weight/Volume:	200 mL
Prep Date:	12/17/2011 0107			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-30934					
LCS 200-30934/4	Lab Control Sample	T	Air	TO-15	
MB 200-30934/5	Method Blank	T	Air	TO-15	
200-8556-1	1246270	T	Air	TO-15	
200-8556-2	1246271	T	Air	TO-15	
200-8556-3	1246272	T	Air	TO-15	
200-8556-4	1246273	T	Air	TO-15	

Report Basis

T = Total

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Method Blank - Batch: 200-30934

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-30934/5	Analysis Batch:	200-30934	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkjd005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 1251	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 1251			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Xylene (total)	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Method Blank - Batch: 200-30934

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-30934/5	Analysis Batch:	200-30934	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkjd005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 1251	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 1251			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,2-Dichlorobenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Method Blank - Batch: 200-30934

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-30934/5	Analysis Batch:	200-30934	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkjd005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 1251	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 1251			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.1	U	1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Xylene (total)	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
n-Butylbenzene	1.1	U	1.1

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Method Blank - Batch: 200-30934

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-30934/5	Analysis Batch:	200-30934	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkjd005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 1251	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 1251			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,2-Dichlorobenzene	1.2	U	1.2

Method Blank TICs- Batch: 200-30934

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Lab Control Sample - Batch: 200-30934

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-30934/4	Analysis Batch:	200-30934	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkjd004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 1200	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 1200			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	10.2	102	70 - 130	
Chloromethane	10.0	10.1	101	70 - 130	
Vinyl chloride	10.0	9.97	100	70 - 130	
Chloroethane	10.0	10.0	101	70 - 130	
Trichlorofluoromethane	10.0	9.90	99	70 - 130	
1,1-Dichloroethene	10.0	11.4	114	70 - 130	
Acetone	10.0	10.1	101	70 - 130	
Methylene Chloride	10.0	10.9	109	70 - 130	
Methyl tert-butyl ether	10.0	10.6	106	70 - 130	
trans-1,2-Dichloroethene	10.0	10.4	104	70 - 130	
1,1-Dichloroethane	10.0	10.3	103	70 - 130	
Methyl Ethyl Ketone	10.0	11.0	110	70 - 130	
cis-1,2-Dichloroethene	10.0	10.8	108	70 - 130	
Chloroform	10.0	10.2	102	70 - 130	
1,1,1-Trichloroethane	10.0	10.2	102	70 - 130	
Carbon tetrachloride	10.0	10.1	101	70 - 130	
Benzene	10.0	10.3	103	70 - 130	
1,2-Dichloroethane	10.0	10.1	102	70 - 130	
Trichloroethene	10.0	10.2	102	70 - 130	
1,2-Dichloropropane	10.0	10.1	101	70 - 130	
Bromodichloromethane	10.0	10.8	108	70 - 130	
cis-1,3-Dichloropropene	10.0	10.4	104	70 - 130	
methyl isobutyl ketone	10.0	10.9	109	70 - 130	
Toluene	10.0	10.4	104	70 - 130	
trans-1,3-Dichloropropene	10.0	10.6	106	70 - 130	
1,1,2-Trichloroethane	10.0	9.73	97	70 - 130	
Tetrachloroethene	10.0	10.1	101	70 - 130	
Dibromochloromethane	10.0	11.3	113	70 - 130	
1,2-Dibromoethane	10.0	10.2	102	70 - 130	
Chlorobenzene	10.0	9.81	98	70 - 130	
Ethylbenzene	10.0	10.2	102	70 - 130	
m,p-Xylene	20.0	21.0	105	70 - 130	
Xylene, o-	10.0	10.4	104	70 - 130	
Styrene	10.0	11.0	110	70 - 130	
Bromoform	10.0	11.6	116	70 - 130	
Cumene	10.0	10.5	105	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.92	99	70 - 130	
1,3,5-Trimethylbenzene	10.0	10.2	102	70 - 130	
1,2,4-Trimethylbenzene	10.0	10.1	101	70 - 130	
sec-Butylbenzene	10.0	10.5	105	70 - 130	
4-Isopropyltoluene	10.0	10.8	108	70 - 130	

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Lab Control Sample - Batch: 200-30934

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-30934/4	Analysis Batch:	200-30934	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bkjd004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	12/16/2011 1200	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	12/16/2011 1200			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3-Dichlorobenzene	10.0	10.0	100	70 - 130	
1,4-Dichlorobenzene	10.0	10.1	101	70 - 130	
n-Butylbenzene	10.0	10.8	108	70 - 130	
1,2-Dichlorobenzene	10.0	9.66	97	70 - 130	

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: David Fiereck	Samples Collected By: LPC	1 of 1 COCs
Company: LEA	Phone: 860-410-3028		
Address: 100 Northwest Drive	Email:		
City/State/Zip Plainville, CT 06062			
Phone: 860-747-6181	Site Contact: Joe Trzaski		
FAX:	TA Contact: Becky Mason		
Project Name: Vapor Intrusion-GW Investigation	**Analysis Turnaround Time**		
Site: Old Southington Landfill	Standard (Specify)		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	*Sample Type*	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1246270	12-12-11	0925	1500	-30	-5	4190	4342	X											
1246271		0925	1500	-30	-5	3963	4381	X											
1246272		0830	1420	-30	-9	5177	2893	X											
1246273	12-12-11	0830	1420	-30	-9	2616	5075	X											

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by:	Date/Time: 12-12-11 1630	Received by: 12-12-11 1630
Relinquished by:	Date/Time: 12-12-11 1805	Received by: 12/12/11 1805
Lab Use Only Shipper Name: 12/13/11 1400	Opened by:	Condition: Rec'd by lab ABK 12/14/11 1600

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BARCODE PORTION OF THE LABEL CAN BE READ AND SCANNED. ***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

From: Origin ID: EHTA (413) 572-4000
SAMPLE RECEIVING
TESTAMERICA LAB INC.
53 SOUTHAMPTON ROAD

WESTFIELD, MA 01085

FedEx Express

J09200911302023

Ship Date: 13DEC11
ActWgt: 39.0 LB MAN
CAD: 657678/CAFE2453
Account#: S 222854512

Delivery Address Bar Code

Ref #
Invoice #
PO #
Dept #

SHIP TO: (802) 660-1990 BILL RECIPIENT

SAMPLE RECEIVING
TESTAMERICA
30 COMMUNITY DRIVE
SUITE 11
S. BURLINGTON, VT 05403

TRK# 0201 4420 5716 6805

WED - 14DEC **A4**
STANDARD OVERNIGHT

ZF BTVA

05403
VT-US
BTV

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 200-8556-1

Login Number: 8556

List Source: TestAmerica Burlington

List Number: 1

Creator: Matot, Wade M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	N/A	Not present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

Job Number: 360-39595-1

Job Description: Old Southington Landfill Groundwater

For:
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trazski

Approved for release.
Joe Chimi
Report Production Representative
3/23/2012 4:08 PM

Designee for
Becky C Mason
Project Manager II
becky.mason@testamericainc.com
03/23/2012

Results relate only to the items tested and the sample(s) as received by the laboratory. The test results in this report meet all NELAC requirements for accredited parameters, exceptions are noted in this report. Pursuant to NELAC, this report may not be reproduced except in full, and with written approval from the laboratory. TestAmerica Westfield Certifications and Approvals: MADEP MA014, RIDOH57, CTDPH 0494, VT DECWSD, NELAP NH DES 2539, NELAP NY 10843, NY ELAP 10843, North Carolina 647. Field sampling is performed under SOPs WE-FLD-001 and WE-FLD-002.

TestAmerica Laboratories, Inc.
TestAmerica Westfield Westfield Executive Park, 53 Southampton Road, Westfield, MA 01085
Tel (413) 572-4000 Fax (413) 572-3707 www.testamericainc.com

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REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	TestAmerica Westfield	***Client:***	**Loureiro Engineering Associates**
Project Location:	**OSL VIMP**	***Project Number:***	**360-39595-1**
Laboratory Sample ID (s):	**360-39595-(1-12)**	***Sampling Date (s):***	**3/15/12**
Method:	**SW846 8260C**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6℃)?	Yes √	N/A	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes		No √
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes √		No
	b) Were these reporting limits met?	Yes	N/A	No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes √		No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence. This form may not be altered and all questions must be answered.

This Certification form is to be used for RCP methods only

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Position: Laboratory Director

Printed Name: Steve Hartmann Date: 3/23/12 16:01

The certification form has been electronically signed and approved.

Updated Nov 2007

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Job Narrative
360-39595-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Receipt
The samples were received on 03/16/2012; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.4°C.

Regarding questions 5a and 5b on the CT RCP certification form, the laboratory has evaluated reporting limits against the most stringent class criteria in the absence of a specified class on the chain-of-custody.

The LCS Duplicate (LCSD) is only reported for general QA/QC purposes. The LCSD is not part of the CT-RCP program and any outliers associated with this standard have not been evaluated against question (4) on the RCP Laboratory Analysis QA/QC Certification form.

GC/MS VOA
Method 8260C: The laboratory control sample (LCS) for batch 88658 exceeded control limits for one or more compounds. The data is flagged accordingly. Please reference the QC report for details.

Due to the limited volume provided, the following sample was diluted: 1253647 (360-39595-11). Elevated reporting limits (RLs) are provided.

No other analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
360-39595-4	**1253654**					
Benzene		0.51		0.50	ug/L	8260C
cis-1,2-Dichloroethene		7.7		0.50	ug/L	8260C
Methyl tert-butyl ether		1.3		0.50	ug/L	8260C
Trichloroethene		0.56		0.50	ug/L	8260C
Vinyl chloride		2.2		0.50	ug/L	8260C
360-39595-5	**1253655**					
1,1-Dichloroethane		0.63		0.50	ug/L	8260C
Vinyl chloride		2.2		0.50	ug/L	8260C
360-39595-12	**1253661**					
Methylene Chloride		2.0		2.0	ug/L	8260C

METHOD SUMMARY

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Description	Lab Location	Method	Preparation Method
Matrix Water			
Volatile Organic Compounds (GC/MS)	TAL WFD	SW846 8260C	
Purge and Trap	TAL WFD		SW846 5030B

Lab References:

TAL WFD = TestAmerica Westfield

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Method	Analyst	Analyst ID
SW846 8260C	Hartmann, Tam	TH

SAMPLE SUMMARY

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
360-39595-1	1253650	Water	03/15/2012 0945	03/16/2012 1015
360-39595-2	1253651	Water	03/15/2012 1020	03/16/2012 1015
360-39595-3	1253652	Water	03/15/2012 1105	03/16/2012 1015
360-39595-4	1253654	Water	03/15/2012 1340	03/16/2012 1015
360-39595-5	1253655	Water	03/15/2012 1340	03/16/2012 1015
360-39595-6	1253656	Water	03/15/2012 1432	03/16/2012 1015
360-39595-7	1253657	Water	03/15/2012 1520	03/16/2012 1015
360-39595-8	1253658	Water	03/15/2012 1530	03/16/2012 1015
360-39595-9	1253660	Water	03/15/2012 1335	03/16/2012 1015
360-39595-10	1253646	Water	03/15/2012 1340	03/16/2012 1015
360-39595-11	1253647	Water	03/15/2012 0900	03/16/2012 1015
360-39595-12	1253661	Water	03/15/2012 1530	03/16/2012 1015

SAMPLE RESULTS

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253650**

Lab Sample ID: 360-39595-1

Client Matrix: Water

Date Sampled: 03/15/2012 0945

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24793.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1403			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1403				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253650**

Lab Sample ID: 360-39595-1

Client Matrix: Water

Date Sampled: 03/15/2012 0945

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24793.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1403			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1403				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253651**

Lab Sample ID: 360-39595-2

Client Matrix: Water

Date Sampled: 03/15/2012 1020

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24794.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1424			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1424				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253651**

Lab Sample ID: 360-39595-2

Client Matrix: Water

Date Sampled: 03/15/2012 1020

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24794.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1424			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1424				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253652**

Lab Sample ID: 360-39595-3

Client Matrix: Water

Date Sampled: 03/15/2012 1105

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24795.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1446			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1446				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253652**

Lab Sample ID: 360-39595-3

Client Matrix: Water

Date Sampled: 03/15/2012 1105

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24795.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1446			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1446				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253654**

Lab Sample ID: 360-39595-4

Client Matrix: Water

Date Sampled: 03/15/2012 1340

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24796.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1508			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1508				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.51		0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	7.7		0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253654**

Lab Sample ID: 360-39595-4

Client Matrix: Water

Date Sampled: 03/15/2012 1340

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24796.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1508			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1508				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	1.3		0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.56		0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	2.2		0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253655**

Lab Sample ID: 360-39595-5

Client Matrix: Water

Date Sampled: 03/15/2012 1340

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1529			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1529				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.63		0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253655**

Lab Sample ID: 360-39595-5

Client Matrix: Water

Date Sampled: 03/15/2012 1340

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24797.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1529			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1529				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	2.2		0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253656**

Lab Sample ID: 360-39595-6

Client Matrix: Water

Date Sampled: 03/15/2012 1432

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1551			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1551				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253656**

Lab Sample ID: 360-39595-6

Client Matrix: Water

Date Sampled: 03/15/2012 1432

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24798.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1551			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1551				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	100		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253657**

Lab Sample ID: 360-39595-7

Client Matrix: Water

Date Sampled: 03/15/2012 1520

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1613			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1613				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253657**

Lab Sample ID: 360-39595-7

Client Matrix: Water

Date Sampled: 03/15/2012 1520

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24799.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1613			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1613				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253658**

Lab Sample ID: 360-39595-8

Client Matrix: Water

Date Sampled: 03/15/2012 1530

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1635			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1635				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253658**

Lab Sample ID: 360-39595-8

Client Matrix: Water

Date Sampled: 03/15/2012 1530

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24800.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1635			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1635				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	99		70 - 130
Toluene-d8 (Surr)	100		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253660**

Lab Sample ID: 360-39595-9

Client Matrix: Water

Date Sampled: 03/15/2012 1335

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24801.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1656			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1656				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253660**

Lab Sample ID: 360-39595-9

Client Matrix: Water

Date Sampled: 03/15/2012 1335

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24801.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1656			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1656				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	102		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	98		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253646**

Lab Sample ID: 360-39595-10

Client Matrix: Water

Date Sampled: 03/15/2012 1340

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24802.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1718			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1718				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253646**

Lab Sample ID: 360-39595-10

Client Matrix: Water

Date Sampled: 03/15/2012 1340

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24802.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1718			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1718				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253647**

Lab Sample ID: 360-39595-11

Client Matrix: Water

Date Sampled: 03/15/2012 0900

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24803.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1740			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1740				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	1.0	U	1.0
1,1,1-Trichloroethane	1.0	U	1.0
1,1,2,2-Tetrachloroethane	1.0	U	1.0
1,1,2-Trichloro-1,2,2-trifluoroethane	2.0	U	2.0
1,1,2-Trichloroethane	1.0	U	1.0
1,1-Dichloroethane	1.0	U	1.0
1,1-Dichloroethene	1.0	U	1.0
1,1-Dichloropropene	1.0	U	1.0
1,2,3-Trichlorobenzene	1.0	U	1.0
1,2,3-Trichloropropane	1.0	U	1.0
1,2,4-Trichlorobenzene	1.0	U	1.0
1,2,4-Trimethylbenzene	1.0	U	1.0
1,2-Dibromo-3-Chloropropane	10	U	10
1,2-Dichlorobenzene	1.0	U	1.0
1,2-Dichloroethane	1.0	U	1.0
1,2-Dichloropropane	1.0	U	1.0
1,3,5-Trimethylbenzene	1.0	U	1.0
1,3-Dichlorobenzene	1.0	U	1.0
1,3-Dichloropropane	1.0	U	1.0
1,4-Dichlorobenzene	1.0	U	1.0
2,2-Dichloropropane	1.0	U	1.0
2-Butanone (MEK)	10	U	10
2-Chlorotoluene	1.0	U	1.0
2-Hexanone	10	U	10
4-Chlorotoluene	1.0	U	1.0
4-Isopropyltoluene	1.0	U	1.0
4-Methyl-2-pentanone (MIBK)	10	U	10
Acetone	20	U	20
Acrylonitrile	1.0	U	1.0
Benzene	1.0	U	1.0
Bromobenzene	1.0	U	1.0
Bromoform	1.0	U	1.0
Bromomethane	2.0	U	2.0
Carbon disulfide	1.0	U	1.0
Carbon tetrachloride	1.0	U	1.0
Chlorobenzene	1.0	U	1.0
Chlorodibromomethane	1.0	U	1.0
Chloroethane	2.0	U	2.0
Chloroform	1.0	U	1.0
Chloromethane	1.0	U	1.0
cis-1,2-Dichloroethene	1.0	U	1.0
cis-1,3-Dichloropropene	0.80	U	0.80
Dibromomethane	1.0	U	1.0
Dichlorobromomethane	1.0	U	1.0
Dichlorodifluoromethane	2.0	U *	2.0
Ethylbenzene	1.0	U	1.0

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253647**

Lab Sample ID: 360-39595-11

Client Matrix: Water

Date Sampled: 03/15/2012 0900

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24803.D
Dilution:	2.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1740			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1740				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	2.0	U	2.0
Hexachlorobutadiene	0.80	U	0.80
Isopropylbenzene	1.0	U	1.0
m-Xylene & p-Xylene	4.0	U	4.0
Methyl tert-butyl ether	1.0	U	1.0
Methylene Chloride	4.0	U	4.0
n-Butylbenzene	1.0	U	1.0
N-Propylbenzene	1.0	U	1.0
Naphthalene	10	U	10
o-Xylene	1.0	U	1.0
sec-Butylbenzene	1.0	U	1.0
Styrene	1.0	U	1.0
tert-Butylbenzene	2.0	U	2.0
Tetrachloroethene	1.0	U	1.0
Tetrahydrofuran	10	U	10
Toluene	1.0	U	1.0
trans-1,2-Dichloroethene	1.0	U	1.0
trans-1,3-Dichloropropene	0.80	U	0.80
trans-1,4-Dichloro-2-butene	2.0	U	2.0
Trichloroethene	1.0	U	1.0
Trichlorofluoromethane	1.0	U	1.0
Vinyl chloride	1.0	U	1.0
Xylenes, Total	2.0	U	2.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	103		70 - 130
Dibromofluoromethane	101		70 - 130
Toluene-d8 (Surr)	97		70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253661**

Lab Sample ID: 360-39595-12

Client Matrix: Water

Date Sampled: 03/15/2012 1530

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24804.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1802			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1802				

Analyte	Result (ug/L)	Qualifier	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U *	1.0
Ethylbenzene	0.50	U	0.50

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Client Sample ID: **1253661**

Lab Sample ID: 360-39595-12

Client Matrix: Water

Date Sampled: 03/15/2012 1530

Date Received: 03/16/2012 1015

8260C Volatile Organic Compounds (GC/MS)

Analysis Method:	8260C	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	V24804.D
Dilution:	1.0			Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1802			Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1802				

Analyte	Result (ug/L)	Qualifier	RL
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0		2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
4-Bromofluorobenzene	101		70 - 130
Dibromofluoromethane	100		70 - 130
Toluene-d8 (Surr)	99		70 - 130

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Lab Section	Qualifier	Description
GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.
	*	LCS or LCSD exceeds the control limits

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:360-88658					
LCS 360-88658/14	Lab Control Sample	T	Water	8260C	
LCSD 360-88658/15	Lab Control Sample Duplicate	T	Water	8260C	
MB 360-88658/17	Method Blank	T	Water	8260C	
360-39595-1	1253650	T	Water	8260C	
360-39595-2	1253651	T	Water	8260C	
360-39595-3	1253652	T	Water	8260C	
360-39595-4	1253654	T	Water	8260C	
360-39595-5	1253655	T	Water	8260C	
360-39595-6	1253656	T	Water	8260C	
360-39595-7	1253657	T	Water	8260C	
360-39595-8	1253658	T	Water	8260C	
360-39595-9	1253660	T	Water	8260C	
360-39595-10	1253646	T	Water	8260C	
360-39595-11	1253647	T	Water	8260C	
360-39595-12	1253661	T	Water	8260C	

Report Basis

T = Total

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Surrogate Recovery Report

8260C Volatile Organic Compounds (GC/MS)

Client Matrix: Water

Lab Sample ID	Client Sample ID	BFB %Rec	DBFM %Rec	TOL %Rec
360-39595-1	1253650	102	100	100
360-39595-2	1253651	103	100	100
360-39595-3	1253652	102	99	97
360-39595-4	1253654	103	100	99
360-39595-5	1253655	102	99	99
360-39595-6	1253656	100	99	100
360-39595-7	1253657	102	99	99
360-39595-8	1253658	102	99	100
360-39595-9	1253660	102	100	98
360-39595-10	1253646	101	100	99
360-39595-11	1253647	103	101	97
360-39595-12	1253661	101	100	99
MB 360-88658/17		101	100	100
LCS 360-88658/14		101	101	103
LCSD 360-88658/15		101	99	102

Surrogate	Acceptance Limits
BFB = 4-Bromofluorobenzene	70-130
DBFM = Dibromofluoromethane	70-130
TOL = Toluene-d8 (Surr)	70-130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Method Blank - Batch: 360-88658

Method: 8260C
Preparation: 5030B

Lab Sample ID:	MB 360-88658/17	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V24787.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1111	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1111				
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,1,1,2-Tetrachloroethane	0.50	U	0.50
1,1,1-Trichloroethane	0.50	U	0.50
1,1,2,2-Tetrachloroethane	0.50	U	0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0
1,1,2-Trichloroethane	0.50	U	0.50
1,1-Dichloroethane	0.50	U	0.50
1,1-Dichloroethene	0.50	U	0.50
1,1-Dichloropropene	0.50	U	0.50
1,2,3-Trichlorobenzene	0.50	U	0.50
1,2,3-Trichloropropane	0.50	U	0.50
1,2,4-Trichlorobenzene	0.50	U	0.50
1,2,4-Trimethylbenzene	0.50	U	0.50
1,2-Dibromo-3-Chloropropane	5.0	U	5.0
1,2-Dichlorobenzene	0.50	U	0.50
1,2-Dichloroethane	0.50	U	0.50
1,2-Dichloropropane	0.50	U	0.50
1,3,5-Trimethylbenzene	0.50	U	0.50
1,3-Dichlorobenzene	0.50	U	0.50
1,3-Dichloropropane	0.50	U	0.50
1,4-Dichlorobenzene	0.50	U	0.50
2,2-Dichloropropane	0.50	U	0.50
2-Butanone (MEK)	5.0	U	5.0
2-Chlorotoluene	0.50	U	0.50
2-Hexanone	5.0	U	5.0
4-Chlorotoluene	0.50	U	0.50
4-Isopropyltoluene	0.50	U	0.50
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0
Acetone	10	U	10
Acrylonitrile	0.50	U	0.50
Benzene	0.50	U	0.50
Bromobenzene	0.50	U	0.50
Bromoform	0.50	U	0.50
Bromomethane	1.0	U	1.0
Carbon disulfide	0.50	U	0.50
Carbon tetrachloride	0.50	U	0.50
Chlorobenzene	0.50	U	0.50
Chlorodibromomethane	0.50	U	0.50
Chloroethane	1.0	U	1.0
Chloroform	0.50	U	0.50
Chloromethane	0.50	U	0.50
cis-1,2-Dichloroethene	0.50	U	0.50
cis-1,3-Dichloropropene	0.40	U	0.40
Dibromomethane	0.50	U	0.50
Dichlorobromomethane	0.50	U	0.50
Dichlorodifluoromethane	1.0	U	1.0

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Method Blank - Batch: 360-88658

Method: 8260C
Preparation: 5030B

Lab Sample ID:	MB 360-88658/17	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V24787.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1111	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1111				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Ethylbenzene	0.50	U	0.50
Ethylene Dibromide	1.0	U	1.0
Hexachlorobutadiene	0.40	U	0.40
Isopropylbenzene	0.50	U	0.50
m-Xylene & p-Xylene	2.0	U	2.0
Methyl tert-butyl ether	0.50	U	0.50
Methylene Chloride	2.0	U	2.0
n-Butylbenzene	0.50	U	0.50
N-Propylbenzene	0.50	U	0.50
Naphthalene	5.0	U	5.0
o-Xylene	0.50	U	0.50
sec-Butylbenzene	0.50	U	0.50
Styrene	0.50	U	0.50
tert-Butylbenzene	1.0	U	1.0
Tetrachloroethene	0.50	U	0.50
Tetrahydrofuran	5.0	U	5.0
Toluene	0.50	U	0.50
trans-1,2-Dichloroethene	0.50	U	0.50
trans-1,3-Dichloropropene	0.40	U	0.40
trans-1,4-Dichloro-2-butene	1.0	U	1.0
Trichloroethene	0.50	U	0.50
Trichlorofluoromethane	0.50	U	0.50
Vinyl chloride	0.50	U	0.50
Xylenes, Total	1.0	U	1.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	101	70 - 130
Dibromofluoromethane	100	70 - 130
Toluene-d8 (Surr)	100	70 - 130

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-88658

Method: 8260C
Preparation: 5030B

LCS Lab Sample ID:	LCS 360-88658/14	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V24784.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1006	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1006				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 360-88658/15	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V24785.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1028	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1028				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
1,1,1,2-Tetrachloroethane	104	101	70 - 130	3	25		
1,1,1-Trichloroethane	104	94	70 - 130	10	25		
1,1,2,2-Tetrachloroethane	98	97	70 - 130	1	25		
1,1,2-Trichloro-1,2,2-trifluoroethane	91	82	70 - 130	10	25		
1,1,2-Trichloroethane	101	101	70 - 130	0	25		
1,1-Dichloroethane	105	98	70 - 130	7	25		
1,1-Dichloroethene	99	88	70 - 130	12	25		
1,1-Dichloropropene	102	93	70 - 130	10	25		
1,2,3-Trichlorobenzene	103	103	70 - 130	0	25		
1,2,3-Trichloropropane	102	100	70 - 130	2	25		
1,2,4-Trichlorobenzene	108	104	70 - 130	4	25		
1,2,4-Trimethylbenzene	106	101	70 - 130	5	25		
1,2-Dibromo-3-Chloropropane	102	97	70 - 130	5	25		
1,2-Dichlorobenzene	99	96	70 - 130	4	25		
1,2-Dichloroethane	101	97	70 - 130	4	25		
1,2-Dichloropropane	101	98	70 - 130	3	25		
1,3,5-Trimethylbenzene	107	101	70 - 130	6	25		
1,3-Dichlorobenzene	102	98	70 - 130	4	25		
1,3-Dichloropropane	98	97	70 - 130	1	25		
1,4-Dichlorobenzene	101	96	70 - 130	5	25		
2,2-Dichloropropane	96	84	70 - 130	13	25		
2-Butanone (MEK)	71	73	70 - 130	3	25		
2-Chlorotoluene	105	100	70 - 130	5	25		
2-Hexanone	90	84	70 - 130	7	25		
4-Chlorotoluene	107	100	70 - 130	7	25		
4-Isopropyltoluene	112	106	70 - 130	6	25		
4-Methyl-2-pentanone (MIBK)	99	96	70 - 130	3	25		
Acetone	76	78	70 - 130	3	25		
Acrylonitrile	103	102	70 - 130	0	25		
Benzene	102	95	70 - 130	7	25		
Bromobenzene	104	100	70 - 130	4	25		
Bromoform	89	87	70 - 130	2	25		
Bromomethane	112	102	70 - 130	10	25		
Carbon disulfide	119	102	70 - 130	15	25		
Carbon tetrachloride	104	96	70 - 130	8	25		

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 360-88658

Method: 8260C
Preparation: 5030B

LCS Lab Sample ID:	LCS 360-88658/14	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V24784.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1006	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1006				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 360-88658/15	Analysis Batch:	360-88658	Instrument ID:	Agilent#2 GC/MS
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	V24785.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	03/21/2012 1028	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	03/21/2012 1028				
Leach Date:	N/A				

	% Rec.						
Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Chlorobenzene	103	100	70 - 130	3	25		
Chlorodibromomethane	96	93	70 - 130	4	25		
Chloroethane	110	96	70 - 130	13	25		
Chloroform	102	97	70 - 130	5	25		
Chloromethane	116	103	70 - 130	11	25		
cis-1,2-Dichloroethene	104	95	70 - 130	9	25		
cis-1,3-Dichloropropene	97	94	70 - 130	3	25		
Dibromomethane	103	100	70 - 130	3	25		
Dichlorobromomethane	101	97	70 - 130	4	25		
Dichlorodifluoromethane	145	130	70 - 130	11	25	*	
Ethylbenzene	104	98	70 - 130	6	25		
Ethylene Dibromide	104	98	70 - 130	5	25		
Hexachlorobutadiene	106	100	70 - 130	6	25		
Isopropylbenzene	104	98	70 - 130	6	25		
m-Xylene & p-Xylene	103	97	70 - 130	6	25		
Methyl tert-butyl ether	104	102	70 - 130	2	25		
Methylene Chloride	96	90	70 - 130	6	25		
n-Butylbenzene	107	99	70 - 130	7	25		
N-Propylbenzene	108	101	70 - 130	6	25		
Naphthalene	102	99	70 - 130	2	25		
o-Xylene	105	99	70 - 130	6	25		
sec-Butylbenzene	111	104	70 - 130	7	25		
Styrene	101	96	70 - 130	5	25		
tert-Butylbenzene	107	99	70 - 130	8	25		
Tetrachloroethene	104	96	70 - 130	9	25		
Tetrahydrofuran	102	102	70 - 130	0	25		
Toluene	99	92	70 - 130	7	25		
trans-1,2-Dichloroethene	103	93	70 - 130	10	25		
trans-1,3-Dichloropropene	96	94	70 - 130	2	25		
trans-1,4-Dichloro-2-butene	113	111	70 - 130	2	25		
Trichloroethene	102	94	70 - 130	8	25		
Trichlorofluoromethane	109	95	70 - 130	14	25		
Vinyl chloride	117	102	70 - 130	13	25		
Xylenes, Total	103	98	70 - 130	6	25		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	101	70 - 130
Dibromofluoromethane	101	99	70 - 130
Toluene-d8 (Surr)	103	102	70 - 130

State Accreditation Matrix

Method Name	Description	Primary Accreditation	
		New Hampshire (NELAC)	Mass
180.1	Turbidity, Nephelometric	P	P
245.1	Mercury (CVAA)	NP/P	NP
300	Anions, Ion Chromatography	NP/P	NP/P
410.4	COD	NP	NP
524.2	Volatile Org Comp (GC/MS)(list upon request)	P	P
524.2	Trihalomethane compounds	P	P
608	Organochlorine Pest/PCBs (list upon request)	NP	NP
624	Volatile Org Comp (GC/MS)(list upon request)	NP	NP
625	Semivolatile Org Comp (GC/MS)(list upon request)	NP	NP
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW	
1103.1	E.coli		ambient/source
3546	Microwave Extraction	SW	
5035	Closed System Purge and Trap	SW	
6020	Metals (ICP/MS) (list upon request)	NP	
10-107-06-2	Nitrogen, Total Kjeldahl	NP	NP
200.7 Rev 4.4	Metals (ICP)(list upon request)	NP/P	NP/P
200.8 Rev 5.4	Metals (ICP/MS) (list upon request)	NP/P	NP/P
3005A	Preparation, Total Recoverable or Dissolved Metals	NP/P	
3010A	Preparation, Total Metals	NP/P	
3020A	Preparation, Total Metals	NP/P	
3050B	Preparation, Metals	SW	
3510C	Liquid-Liquid Extraction (Separatory Funnel)	NP	
5030B	Purge and Trap	NP	
6010C	Metals (ICP)(list upon request)	NP/SW	
7196A	Chromium, Hexavalent	NP/SW	
7470A	Mercury (CVAA)	NP	
7471A	Mercury (CVAA)	SW	
8081B	Organochlorine Pesticides (GC)(list upon request)	NP/SW	
8082A	PCBs by Gas Chromatography(list upon request)	NP/SW	
8260C	Volatile Org Comp. (GC/MS)(list upon request)	NP/SW	
8270D	Semivolatile Comp.(GC/MS)(list upon request)	NP/SW	
9012A	Cyanide, Total and/or Amenable	NP/SW	
9030B	Sulfide, Distillation (Acid Soluble and Insoluble)	NP	
9045C	pH	SW	
CT ETPH	Conn - Ext. Total petroleum Hydrocarbons (GC)	NP/SW	
Enterolert	Enterococcus		ambient/source
L107041C	Nitrogen, Nitrate	NP	
L107-06-1B	Nitrogen Ammonia	NP	NP
L204001A CN	Cyanide, Total	P	NP/P
L210-001A	Phenolics, Total Recoverable	NP	NP
MA-EPH	Mass - Extractable Petroleum Hydrocarbons (GC)	NP/SW	
MAVPH	Mass - Volatile Petroleum Hydrocarbons (GC)	NP/SW	
SM 2320B	Alkalinity	NP/P	NP/P
SM 2340B	Total Hardness (as CaCO3) by calculation	NP/P	NP
SM 2510B	Conductivity, Specific Conductance	NP/P	NP/P
SM 2540C	Solids, Total Dissolved (TDS)	NP/P	NP/P
SM 2540D	Solids, Total Suspended (TSS)	NP	NP
SM 3500 CR D	Chromium, Hexavalent	NP	
SM 4500 Cl F	Chlorine, Residual		NP
SM 4500 H+ B	pH	NP/P	NP/P
SM 4500 NO2 B	Nitrogen, Nitrite	NP	P
SM 4500 P E	Phosphorus, Orthophosphate	NP/P	NP
SM 4500 P E	Phosphorus, Total	NP	NP
SM 4500 S2 D	Sulfide, Total	NP	
SM 5210B	BOD, 5-Day	NP	NP
SM 5310B	Organic Carbon, Total (TOC)	NP/P	NP
SM 9215E	Heterotrophic Plate Count (SimPlate)		P
SM 9222D	Coliforms, Fecal (Membrane Filter)		NP
SM 9223	Coliforms, Total, and E.Coli (Colilert-P/A)		P
SM 9223	Coliforms, Total, and E.Coli (Enumeration)		P

Not all organic compounds are accreditied under YNI
For methods with multiple compounds all compounds may not meet TNI criteria, a listing should be obtained from the laboratory
The lab carries additional accreditations with several states. This is the laboratories typcial listing but is subject to change based on the laboratories current certification standing.

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 360-39595-1

Login Number: 39595

List Source: TestAmerica Westfield

List Number: 1

Creator: Mason, Becky C

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

360-39595

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: (LV) ~~LEA~~ Joe Trzaski	Field Sampler: LPC, AKC, NE	TAT Required (business days): standard 7 day	Lab PM/Contact:	COC Number: 21940
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page 1 of 2
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860-747-6181	WO #:			
Email:	Project #: 61SL902.003	State Regulatory QC Criteria Requirements: CT RCPs	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL VIMP	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOCs 8260B									Comments
	1253650	3/15/12	0945	Aq	No				3				X									
	1253651		1020						3				X									
	1253652		1105						3				X									
	1253654		1340						3				X									
	1253655	(LV)	1340	(LV)	(LV)				3				X									
	1253656		1432						3				X									
	1253657		1520						3				X									
	1253658		1530						3				X									
	1253660		1335						3				X									
	1253646	3/15/12	1340	Aq	No				3				X									

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/15/12 1606	LEA	[signature]	3/15/12 1606	DAC
Jennifer Capece	3/15/12 @17:20	TACT	[signature]	3/16/12 1015	TA2

Comments: 1, 4 / ICP

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

TestAmerica Connecticut
128 Long Hill Cross Road
Shelton, CT 06484
Phone (203) 929-8140 Fax (203) 929-8142

Chain of Custody Record

360-39595

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact: Joe Trzaski	Field Sampler: LPC AKC NE	TAT Required (business days): Standard 7 Day	Lab PM/Contact:	COC Number: 20610
Company: LEA	Mobile/Field Number:		Lab Job Number (Lab Use Only):	Page 2 of 2
Address: 100 Northwest Dr.	E-Mail:	Deliverable Type (Report/EDD):	Passed Rad Screen (Lab Use Only): [ ] Yes [ ] No	Carrier Tracking Notes:
City, State, Zip: Plainville CT 06062	PO #:	Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for __ Months (A fee may be assessed if samples are retained for longer than 1 month)	Cooler Temperatures (Lab Use Only):	
Phone: 860 747 6181	WO #:			
Email:	Project #: 615L902.003	State Regulatory QC Criteria Requirements: CT RCPs	Analysis (Attach list if more space is needed)	
Project Name/Site Location (State): OSL VIMP	SSOW#:			

Samples submitted for analysis will be subject to TestAmerica Terms and Conditions

TA #	Field Sample Identification (Containers for each sample may be combined on one line)	Collection Date	Collection Time (24-Hour Clock)	Matrix Aq=Aqueous, S=Solid, W=Waste/Oil, O=Other	MS/ MSD (Yes or No)	No. of Containers/Preservatives: Unpreserved	H2SO4	HNO3	HCL	NaOH	ZnAc/NaOH	Other	VOCs 8260 B									Comments
	1253647	3/15/12	0900	Aq	No				1				X									
	1253661	3/15/12	1530	Aq	No				3				X									

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
[signature]	3/15/12 1606	LEA	[signature]	3/15/12 1606	TACT
Relinquished by: Jennifer Capen	Date/Time: 3/15/12 @ 17:20	Company TACT	Received by: [signature]	Date/Time: 3/16/12 1015	Company TAC
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Comments: Fedex 950130682 3 gd 1.4 | IC

DISTRIBUTION: WHITE - Stays with the Samples; CANARY - Returned to Client with Report; PINK - Field Copy

Field Sampling / Shipping Instructions and Laboratory Sample Receipt Policy included on Reverse Side of COC

TAL-0015 (0609)

ANALYTICAL REPORT

Job Number: 200-9877-1

SDG Number: 200-9877

Job Description: Old Southington Landfill - air

For:
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trazski

Approved for release.
Kathryn A Kelly
Project Manager I
3/26/2012 11:18 AM

Kathryn A Kelly
Project Manager I
kathryn.kelly@testamericainc.com
03/26/2012

cc: Ms. Heather Grimm

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Burlington**	***Client:***	**Loureiro Engineering Assoc.**
Project Location:	**Old Southington Landfill**	***Project Number:***	**20003506**
Laboratory Sample ID (s):	**200-9877-1**	***Sampling Date (s):***	**3/15/12**
RCP Method:	**TO-15**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6℃)?	Yes	N/A √	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes √		No
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes		No √
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes		No √
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes		No √
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ Position: Project Manager

Printed Name: Kathryn Kelly Date: 3/26/12 0:00

The certification form has been electronically signed and approved.

Updated November 2007

CTDEP PH-0751

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Tel:(802)660-1990
Fax:(802)660-1919

QAF04800.CT

CASE NARRATIVE

Client: Loureiro Engineering Associates

Project: Old Southington Landfill - air

Report Number: 200-9877-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 03/16/2012; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Samples 1253663, 1253664 and 1253665 were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 03/22/2012 and 03/23/2012.

Sample 1253663[4360X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The volatile organics analyses for the samples in this delivery group were accomplished at dilution based on screen analyses, to ensure quantitation of all target constituents within the range of calibrated instrument response. Results from the additional more concentrated analyses have been presented if performed.

The samples referenced above were analyzed for the compounds referenced in the CT RCP TO-15 method. Acrylonitrile, 1,3 Dichloropropane, and 1,1,1,2 - Tetrachloroethane were evaluated as TICs in the samples, as these compounds are not part of the laboratory's TO-15 calibration.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-9877-1	**1253663**					
Benzene		4100		870	ppb v/v	TO-15
Benzene		13000		2800	ug/m3	TO-15
Toluene		130000		870	ppb v/v	TO-15
Toluene		480000		3300	ug/m3	TO-15
Ethylbenzene		16000		870	ppb v/v	TO-15
Ethylbenzene		69000		3800	ug/m3	TO-15
m,p-Xylene		26000		2200	ppb v/v	TO-15
m,p-Xylene		110000		9500	ug/m3	TO-15
Xylene, o-		8500		870	ppb v/v	TO-15
Xylene, o-		37000		3800	ug/m3	TO-15
Xylene (total)		35000		870	ppb v/v	TO-15
Xylene (total)		150000		3800	ug/m3	TO-15
200-9877-2	**1253664**					
Dichlorodifluoromethane		0.75		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.7		2.5	ug/m3	TO-15
Trichlorofluoromethane		0.30		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.7		1.1	ug/m3	TO-15
Methylene Chloride		0.59		0.50	ppb v/v	TO-15
Methylene Chloride		2.0		1.7	ug/m3	TO-15
Methyl Ethyl Ketone		2.4		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		7.2		1.5	ug/m3	TO-15
Toluene		2.7		0.20	ppb v/v	TO-15
Toluene		10		0.75	ug/m3	TO-15
Ethylbenzene		0.43		0.20	ppb v/v	TO-15
Ethylbenzene		1.9		0.87	ug/m3	TO-15
m,p-Xylene		1.2		0.50	ppb v/v	TO-15
m,p-Xylene		5.1		2.2	ug/m3	TO-15
Xylene, o-		0.35		0.20	ppb v/v	TO-15
Xylene, o-		1.5		0.87	ug/m3	TO-15
Xylene (total)		1.5		0.20	ppb v/v	TO-15
Xylene (total)		6.6		0.87	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.37		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		1.8		0.98	ug/m3	TO-15

EXECUTIVE SUMMARY - Detections

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-9877-3	**1253665**					
Dichlorodifluoromethane		0.69		0.50	ppb v/v	TO-15
Dichlorodifluoromethane		3.4		2.5	ug/m3	TO-15
Trichlorofluoromethane		0.27		0.20	ppb v/v	TO-15
Trichlorofluoromethane		1.5		1.1	ug/m3	TO-15
Acetone		6.9		5.0	ppb v/v	TO-15
Acetone		16		12	ug/m3	TO-15
Methyl Ethyl Ketone		1.1		0.50	ppb v/v	TO-15
Methyl Ethyl Ketone		3.2		1.5	ug/m3	TO-15
Toluene		4.4		0.20	ppb v/v	TO-15
Toluene		16		0.75	ug/m3	TO-15
Ethylbenzene		0.53		0.20	ppb v/v	TO-15
Ethylbenzene		2.3		0.87	ug/m3	TO-15
m,p-Xylene		1.4		0.50	ppb v/v	TO-15
m,p-Xylene		6.1		2.2	ug/m3	TO-15
Xylene, o-		0.44		0.20	ppb v/v	TO-15
Xylene, o-		1.9		0.87	ug/m3	TO-15
Xylene (total)		1.9		0.20	ppb v/v	TO-15
Xylene (total)		8.1		0.87	ug/m3	TO-15
1,2,4-Trimethylbenzene		0.31		0.20	ppb v/v	TO-15
1,2,4-Trimethylbenzene		1.5		0.98	ug/m3	TO-15
4-Isopropyltoluene		0.28		0.20	ppb v/v	TO-15
4-Isopropyltoluene		1.6		1.1	ug/m3	TO-15

METHOD SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Method	Analyst	Analyst ID
EPA TO-15	Keene, Angela H	AHK

SAMPLE SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-9877-1	1253663	Air	03/15/2012 0900	03/16/2012 1115
200-9877-2	1253664	Air	03/15/2012 0930	03/16/2012 1115
200-9877-3	1253665	Air	03/15/2012 0930	03/16/2012 1115

SAMPLE RESULTS

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253663**

Lab Sample ID: 200-9877-1
Client Matrix: Air

Date Sampled: 03/15/2012 0900
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag008.d
Dilution:	4360			Initial Weight/Volume:	45 mL
Analysis Date:	03/22/2012 2337			Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2337			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	2200	U	2200
Chloromethane	2200	U	2200
Vinyl chloride	870	U	870
Chloroethane	2200	U	2200
Trichlorofluoromethane	870	U	870
1,1-Dichloroethene	870	U	870
Acetone	22000	U	22000
Methylene Chloride	2200	U	2200
Methyl tert-butyl ether	870	U	870
trans-1,2-Dichloroethene	870	U	870
1,1-Dichloroethane	870	U	870
Methyl Ethyl Ketone	2200	U	2200
cis-1,2-Dichloroethene	870	U	870
Chloroform	870	U	870
1,1,1-Trichloroethane	870	U	870
Carbon tetrachloride	870	U	870
Benzene	4100		870
1,2-Dichloroethane	870	U	870
Trichloroethene	870	U	870
1,2-Dichloropropane	870	U	870
Bromodichloromethane	870	U	870
cis-1,3-Dichloropropene	870	U	870
methyl isobutyl ketone	2200	U	2200
Toluene	130000		870
trans-1,3-Dichloropropene	870	U	870
1,1,2-Trichloroethane	870	U	870
Tetrachloroethene	870	U	870
Dibromochloromethane	870	U	870
1,2-Dibromoethane	870	U	870
Chlorobenzene	870	U	870
Ethylbenzene	16000		870
m,p-Xylene	26000		2200
Xylene, o-	8500		870
Xylene (total)	35000		870
Styrene	870	U	870
Bromoform	870	U	870
Cumene	870	U	870
1,1,2,2-Tetrachloroethane	870	U	870
1,3,5-Trimethylbenzene	870	U	870
1,2,4-Trimethylbenzene	870	U	870
sec-Butylbenzene	870	U	870
4-Isopropyltoluene	870	U	870
1,3-Dichlorobenzene	870	U	870
1,4-Dichlorobenzene	870	U	870
n-Butylbenzene	870	U	870
1,2-Dichlorobenzene	870	U	870

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253663**

Lab Sample ID: 200-9877-1
Client Matrix: Air

Date Sampled: 03/15/2012 0900
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag008.d
Dilution:	4360			Initial Weight/Volume:	45 mL
Analysis Date:	03/22/2012 2337			Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2337			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	11000	U	11000
Chloromethane	4500	U	4500
Vinyl chloride	2200	U	2200
Chloroethane	5800	U	5800
Trichlorofluoromethane	4900	U	4900
1,1-Dichloroethene	3500	U	3500
Acetone	52000	U	52000
Methylene Chloride	7600	U	7600
Methyl tert-butyl ether	3100	U	3100
trans-1,2-Dichloroethene	3500	U	3500
1,1-Dichloroethane	3500	U	3500
Methyl Ethyl Ketone	6400	U	6400
cis-1,2-Dichloroethene	3500	U	3500
Chloroform	4300	U	4300
1,1,1-Trichloroethane	4800	U	4800
Carbon tetrachloride	5500	U	5500
Benzene	13000		2800
1,2-Dichloroethane	3500	U	3500
Trichloroethene	4700	U	4700
1,2-Dichloropropane	4000	U	4000
Bromodichloromethane	5800	U	5800
cis-1,3-Dichloropropene	4000	U	4000
methyl isobutyl ketone	8900	U	8900
Toluene	480000		3300
trans-1,3-Dichloropropene	4000	U	4000
1,1,2-Trichloroethane	4800	U	4800
Tetrachloroethene	5900	U	5900
Dibromochloromethane	7400	U	7400
1,2-Dibromoethane	6700	U	6700
Chlorobenzene	4000	U	4000
Ethylbenzene	69000		3800
m,p-Xylene	110000		9500
Xylene, o-	37000		3800
Xylene (total)	150000		3800
Styrene	3700	U	3700
Bromoform	9000	U	9000
Cumene	4300	U	4300
1,1,2,2-Tetrachloroethane	6000	U	6000
1,3,5-Trimethylbenzene	4300	U	4300
1,2,4-Trimethylbenzene	4300	U	4300
sec-Butylbenzene	4800	U	4800
4-Isopropyltoluene	4800	U	4800
1,3-Dichlorobenzene	5200	U	5200
1,4-Dichlorobenzene	5200	U	5200
n-Butylbenzene	4800	U	4800
1,2-Dichlorobenzene	5200	U	5200

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253663**

Lab Sample ID: 200-9877-1
Client Matrix: Air

Date Sampled: 03/15/2012 0900
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag008.d
Dilution:	4360			Initial Weight/Volume:	45 mL
Analysis Date:	03/22/2012 2337			Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2337			Injection Volume:	200 mL

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253663**

Lab Sample ID: 200-9877-1
Client Matrix: Air

Date Sampled: 03/15/2012 0900
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag008.d
Dilution:	4360			Initial Weight/Volume:	45 mL
Analysis Date:	03/22/2012 2337			Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2337			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253664**

Lab Sample ID: 200-9877-2
Client Matrix: Air

Date Sampled: 03/15/2012 0930
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag025.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/23/2012 1427			Final Weight/Volume:	200 mL
Prep Date:	03/23/2012 1427			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.75		0.50
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.30		0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Methylene Chloride	0.59		0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	2.4		0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	2.7		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.43		0.20
m,p-Xylene	1.2		0.50
Xylene, o-	0.35		0.20
Xylene (total)	1.5		0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.37		0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253664**

Lab Sample ID: 200-9877-2
Client Matrix: Air

Date Sampled: 03/15/2012 0930
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag025.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/23/2012 1427			Final Weight/Volume:	200 mL
Prep Date:	03/23/2012 1427			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	3.7		2.5
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.7		1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Methylene Chloride	2.0		1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	7.2		1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	10		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	1.9		0.87
m,p-Xylene	5.1		2.2
Xylene, o-	1.5		0.87
Xylene (total)	6.6		0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	1.8		0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
n-Butylbenzene	1.1	U	1.1
1,2-Dichlorobenzene	1.2	U	1.2

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253664**

Lab Sample ID: 200-9877-2
Client Matrix: Air

Date Sampled: 03/15/2012 0930
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag025.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/23/2012 1427			Final Weight/Volume:	200 mL
Prep Date:	03/23/2012 1427			Injection Volume:	200 mL

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253664**

Lab Sample ID: 200-9877-2
Client Matrix: Air

Date Sampled: 03/15/2012 0930
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag025.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/23/2012 1427			Final Weight/Volume:	200 mL
Prep Date:	03/23/2012 1427			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253665**

Lab Sample ID: 200-9877-3
Client Matrix: Air

Date Sampled: 03/15/2012 0930
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/23/2012 0121			Final Weight/Volume:	200 mL
Prep Date:	03/23/2012 0121			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	0.69		0.50
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.27		0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	6.9		5.0
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	1.1		0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	4.4		0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.53		0.20
m,p-Xylene	1.4		0.50
Xylene, o-	0.44		0.20
Xylene (total)	1.9		0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.31		0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.28		0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20
1,2-Dichlorobenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253665**

Lab Sample ID: 200-9877-3
Client Matrix: Air

Date Sampled: 03/15/2012 0930
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/23/2012 0121			Final Weight/Volume:	200 mL
Prep Date:	03/23/2012 0121			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	3.4		2.5
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.5		1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	16		12
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	3.2		1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	16		0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	2.3		0.87
m,p-Xylene	6.1		2.2
Xylene, o-	1.9		0.87
Xylene (total)	8.1		0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	1.5		0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.6		1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
n-Butylbenzene	1.1	U	1.1
1,2-Dichlorobenzene	1.2	U	1.2

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253665**

Lab Sample ID: 200-9877-3
Client Matrix: Air

Date Sampled: 03/15/2012 0930
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/23/2012 0121			Final Weight/Volume:	200 mL
Prep Date:	03/23/2012 0121			Injection Volume:	200 mL

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Client Sample ID: **1253665**

Lab Sample ID: 200-9877-3
Client Matrix: Air

Date Sampled: 03/15/2012 0930
Date Received: 03/16/2012 1115

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35536	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklag010.d
Dilution:	1.0			Initial Weight/Volume:	200 mL
Analysis Date:	03/23/2012 0121			Final Weight/Volume:	200 mL
Prep Date:	03/23/2012 0121			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-35536					
LCS 200-35536/4	Lab Control Sample	T	Air	TO-15	
MB 200-35536/5	Method Blank	T	Air	TO-15	
200-9877-1	1253663	T	Air	TO-15	
200-9877-2	1253664	T	Air	TO-15	
200-9877-3	1253665	T	Air	TO-15	

Report Basis
T = Total

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Method Blank - Batch: 200-35536

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-35536/5	Analysis Batch:	200-35536	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklag005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/22/2012 2100	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2100			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Xylene (total)	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Method Blank - Batch: 200-35536

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-35536/5	Analysis Batch:	200-35536	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklag005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/22/2012 2100	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2100			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,2-Dichlorobenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Method Blank - Batch: 200-35536

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-35536/5	Analysis Batch:	200-35536	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklag005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/22/2012 2100	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2100			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.1	U	1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Xylene (total)	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
n-Butylbenzene	1.1	U	1.1

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Method Blank - Batch: 200-35536

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-35536/5	Analysis Batch:	200-35536	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklag005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/22/2012 2100	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2100			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,2-Dichlorobenzene	1.2	U	1.2

Method Blank TICs- Batch: 200-35536

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Lab Control Sample - Batch: 200-35536

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-35536/4	Analysis Batch:	200-35536	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklag004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/22/2012 2008	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2008			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	10.6	106	70 - 130	
Chloromethane	10.0	11.3	113	70 - 130	
Vinyl chloride	10.0	10.7	107	70 - 130	
Chloroethane	10.0	9.56	96	70 - 130	
Trichlorofluoromethane	10.0	10.2	102	70 - 130	
1,1-Dichloroethene	10.0	9.62	96	70 - 130	
Acetone	10.0	10.9	109	70 - 130	
Methylene Chloride	10.0	10.2	102	70 - 130	
Methyl tert-butyl ether	10.0	9.71	97	70 - 130	
trans-1,2-Dichloroethene	10.0	9.62	96	70 - 130	
1,1-Dichloroethane	10.0	9.36	94	70 - 130	
Methyl Ethyl Ketone	10.0	9.02	90	70 - 130	
cis-1,2-Dichloroethene	10.0	9.08	91	70 - 130	
Chloroform	10.0	9.58	96	70 - 130	
1,1,1-Trichloroethane	10.0	10.0	100	70 - 130	
Carbon tetrachloride	10.0	10.0	100	70 - 130	
Benzene	10.0	8.83	88	70 - 130	
1,2-Dichloroethane	10.0	10.6	106	70 - 130	
Trichloroethene	10.0	9.05	91	70 - 130	
1,2-Dichloropropane	10.0	8.68	87	70 - 130	
Bromodichloromethane	10.0	10.3	103	70 - 130	
cis-1,3-Dichloropropene	10.0	9.28	93	70 - 130	
methyl isobutyl ketone	10.0	10.2	102	70 - 130	
Toluene	10.0	9.16	92	70 - 130	
trans-1,3-Dichloropropene	10.0	9.63	96	70 - 130	
1,1,2-Trichloroethane	10.0	8.92	89	70 - 130	
Tetrachloroethene	10.0	9.02	90	70 - 130	
Dibromochloromethane	10.0	10.5	105	70 - 130	
1,2-Dibromoethane	10.0	9.24	92	70 - 130	
Chlorobenzene	10.0	8.89	89	70 - 130	
Ethylbenzene	10.0	9.36	94	70 - 130	
m,p-Xylene	20.0	18.3	92	70 - 130	
Xylene, o-	10.0	9.02	90	70 - 130	
Styrene	10.0	9.48	95	70 - 130	
Bromoform	10.0	10.6	106	70 - 130	
Cumene	10.0	9.49	95	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.00	90	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.40	94	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.22	92	70 - 130	
sec-Butylbenzene	10.0	9.50	95	70 - 130	
4-Isopropyltoluene	10.0	9.74	97	70 - 130	

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
Sdg Number: 200-9877

Lab Control Sample - Batch: 200-35536

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-35536/4	Analysis Batch:	200-35536	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklag004.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/22/2012 2008	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/22/2012 2008			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3-Dichlorobenzene	10.0	8.85	89	70 - 130	
1,4-Dichlorobenzene	10.0	8.84	88	70 - 130	
n-Butylbenzene	10.0	10.1	101	70 - 130	
1,2-Dichlorobenzene	10.0	8.64	86	70 - 130	

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Joe Trzaski	Samples Collected By: LPC	1 of 1 COCs
Company: LEA	Phone: 860-410-2942		
Address: 100 North	Email: jttrzaski@loureiro.com		
City/State/Zip CT			
Phone: 860-747-6181	Site Contact:		
FAX: 860-747-8822	TA Contact:		
Project Name: 615L902.003	**Analysis Turnaround Time**		
Site: Old Southington Landfill	Standard (Specify) 7 day		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1253663	3/15/12	0900	1420	-29	-8	3752	2884	X											
1253664	3/15/12	0930	1430	-29	-6	5203	3574	X											
1253665	3/15/12	0930	1430	-29	-6	3251	4924	X											

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:
Samples Relinquished by:	Date/Time: 3/15/12 1606	Received by:
Relinquished by: Jennifer Capra	Date/Time: 3/15/12 @ 17:20	Received by: TA-BUR 3/16/12 11:5

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

ORIGIN ID: OXCA (203) 929-8140
SCOTT HALL
TESTAMERICA
128 LONG HILL CROSS RD

SHELTON, CT 06484
UNITED STATES US

SHIP DATE: 15MAR12
ACTWGT: 28.7 LB
CAD: 688819/CAFE2511

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx Express

FRI - 16 MAR A4
PRIORITY OVERNIGHT

TRK# 0201 4501 3068 2372

ZF BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 200-9877-1
SDG Number: 200-9877

Login Number: 9877
List Number: 1
Creator: Holt, Jamie

List Source: TestAmerica Burlington

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	Check done at department level as required.

ANALYTICAL REPORT

Job Number: 200-10012-1

Job Description: Old Southington Landfill - air

For:
Loureiro Engineering Associates
100 Northwest Drive
Plainville, CT 06062

Attention: Mr. Joe Trazski

Approved for release.
Kathryn A Kelly
Project Manager I
3/30/2012 2:35 PM

Kathryn A Kelly
Project Manager I
kathryn.kelly@testamericainc.com
03/30/2012

cc: Ms. Heather Grimm

The test results in this report relate only to sample(s) as received by the laboratory. These test results were derived under a quality system that adheres to the requirements of NELAC. Pursuant to NELAC, this report may not be produced in full without written approval from the laboratory

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name:	**TestAmerica Burlington**	***Client:***	**Loureiro Engineering Assoc.**
Project Location:	**Old Southington Landfill**	***Project Number:***	**20003506**
Laboratory Sample ID (s):	**200-10012-1**	***Sampling Date (s):***	**3/22/12**
RCP Method:	**TO-15**		

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed (including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents)?	Yes √		No
1A	Were the method specified preservation and holding time requirements met?	Yes √		No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)	Yes	N/A √	No
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	Yes √		No
3	Were samples received at an appropriate temperature (<6℃)?	Yes	N/A √	No
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	Yes √		No
5	a) Were reporting limits specified or referenced on the chain-of custody?	Yes		No √
	b) Were these reporting limits met? (Refer to Report Narrative)	Yes √		No
6	For each analytical method reference in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	Yes		No √
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	Yes		No √

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in a attached narrative. If the answer to question #1, 1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ Position: Project Manager

Printed Name: Kathryn Kelly Date: 3/30/12 0:00

The certification form has been electronically signed and approved.

Updated November 2007

CTDEP PH-0751

TestAmerica Burlington
30 Community Drive Suite 11
South Burlington, VT 05403
Tel:(802)660-1990
Fax:(802)660-1919

CASE NARRATIVE

Client: Loureiro Engineering Associates

Project: Old Southington Landfill - air

Report Number: 200-10012-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT
The samples were received on 03/24/2012; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS
Sample 1253662 was analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 03/28/2012.

Sample 1253662[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The volatile organics analyses for the samples in this delivery group were accomplished at dilution based on screen analyses, to ensure quantitation of all target constituents within the range of calibrated instrument response. Results from the additional more concentrated analyses have been presented if performed.

The samples referenced above were analyzed for the compounds referenced in the CT RCP TO-15 method. Acrylonitrile, 1,3 Dichloropropane, and 1,1,1,2 - Tetrachloroethane were evaluated as TICs in the samples, as these compounds are not part of the laboratory's TO-15 calibration.

No difficulties were encountered during the VOC analysis.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Lab Sample ID / Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
200-10012-1	**1253662**					
Dichlorodifluoromethane		2.3		1.0	ppb v/v	TO-15
Dichlorodifluoromethane		11		4.9	ug/m3	TO-15
Trichlorofluoromethane		1.4		0.40	ppb v/v	TO-15
Trichlorofluoromethane		7.9		2.2	ug/m3	TO-15
Acetone		37		10	ppb v/v	TO-15
Acetone		88		24	ug/m3	TO-15
Methylene Chloride		2.0		1.0	ppb v/v	TO-15
Methylene Chloride		6.9		3.5	ug/m3	TO-15
Methyl Ethyl Ketone		4.6		1.0	ppb v/v	TO-15
Methyl Ethyl Ketone		14		2.9	ug/m3	TO-15
Benzene		3.4		0.40	ppb v/v	TO-15
Benzene		11		1.3	ug/m3	TO-15
Toluene		41		0.40	ppb v/v	TO-15
Toluene		150		1.5	ug/m3	TO-15
Ethylbenzene		3.3		0.40	ppb v/v	TO-15
Ethylbenzene		14		1.7	ug/m3	TO-15
m,p-Xylene		10		1.0	ppb v/v	TO-15
m,p-Xylene		44		4.3	ug/m3	TO-15
Xylene, o-		3.6		0.40	ppb v/v	TO-15
Xylene, o-		16		1.7	ug/m3	TO-15
Xylene (total)		14		0.40	ppb v/v	TO-15
Xylene (total)		60		1.7	ug/m3	TO-15
1,3,5-Trimethylbenzene		1.2		0.40	ppb v/v	TO-15
1,3,5-Trimethylbenzene		5.9		2.0	ug/m3	TO-15
1,2,4-Trimethylbenzene		4.3		0.40	ppb v/v	TO-15
1,2,4-Trimethylbenzene		21		2.0	ug/m3	TO-15
1,4-Dichlorobenzene		0.58		0.40	ppb v/v	TO-15
1,4-Dichlorobenzene		3.5		2.4	ug/m3	TO-15

METHOD SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Description	Lab Location	Method	Preparation Method
Matrix: Air			
Volatile Organic Compounds in Ambient Air	TAL BUR	EPA TO-15	
Collection via Summa Canister	TAL BUR		Summa Canister

Lab References:

TAL BUR = TestAmerica Burlington

Method References:

EPA = US Environmental Protection Agency

METHOD / ANALYST SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Method	Analyst	Analyst ID
EPA TO-15	Keene, Angela H	AHK

SAMPLE SUMMARY

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
200-10012-1	1253662	Air	03/22/2012 1330	03/24/2012 1105

SAMPLE RESULTS

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Client Sample ID: **1253662**

Lab Sample ID: 200-10012-1

Client Matrix: Air

Date Sampled: 03/22/2012 1330

Date Received: 03/24/2012 1105

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35807	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklak013.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/28/2012 0045			Final Weight/Volume:	200 mL
Prep Date:	03/28/2012 0045			Injection Volume:	200 mL

Analyte	Result (ppb v/v)	Qualifier	RL
Dichlorodifluoromethane	2.3		1.0
Chloromethane	1.0	U	1.0
Vinyl chloride	0.40	U	0.40
Chloroethane	1.0	U	1.0
Trichlorofluoromethane	1.4		0.40
1,1-Dichloroethene	0.40	U	0.40
Acetone	37		10
Methylene Chloride	2.0		1.0
Methyl tert-butyl ether	0.40	U	0.40
trans-1,2-Dichloroethene	0.40	U	0.40
1,1-Dichloroethane	0.40	U	0.40
Methyl Ethyl Ketone	4.6		1.0
cis-1,2-Dichloroethene	0.40	U	0.40
Chloroform	0.40	U	0.40
1,1,1-Trichloroethane	0.40	U	0.40
Carbon tetrachloride	0.40	U	0.40
Benzene	3.4		0.40
1,2-Dichloroethane	0.40	U	0.40
Trichloroethene	0.40	U	0.40
1,2-Dichloropropane	0.40	U	0.40
Bromodichloromethane	0.40	U	0.40
cis-1,3-Dichloropropene	0.40	U	0.40
methyl isobutyl ketone	1.0	U	1.0
Toluene	41		0.40
trans-1,3-Dichloropropene	0.40	U	0.40
1,1,2-Trichloroethane	0.40	U	0.40
Tetrachloroethene	0.40	U	0.40
Dibromochloromethane	0.40	U	0.40
1,2-Dibromoethane	0.40	U	0.40
Chlorobenzene	0.40	U	0.40
Ethylbenzene	3.3		0.40
m,p-Xylene	10		1.0
Xylene, o-	3.6		0.40
Xylene (total)	14		0.40
Styrene	0.40	U	0.40
Bromoform	0.40	U	0.40
Cumene	0.40	U	0.40
1,1,2,2-Tetrachloroethane	0.40	U	0.40
1,3,5-Trimethylbenzene	1.2		0.40
1,2,4-Trimethylbenzene	4.3		0.40
sec-Butylbenzene	0.40	U	0.40
4-Isopropyltoluene	0.40	U	0.40
1,3-Dichlorobenzene	0.40	U	0.40
1,4-Dichlorobenzene	0.58		0.40
n-Butylbenzene	0.40	U	0.40
1,2-Dichlorobenzene	0.40	U	0.40

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Client Sample ID: **1253662**

Lab Sample ID: 200-10012-1

Client Matrix: Air

Date Sampled: 03/22/2012 1330

Date Received: 03/24/2012 1105

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35807	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklak013.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/28/2012 0045			Final Weight/Volume:	200 mL
Prep Date:	03/28/2012 0045			Injection Volume:	200 mL

Analyte	Result (ug/m3)	Qualifier	RL
Dichlorodifluoromethane	11		4.9
Chloromethane	2.1	U	2.1
Vinyl chloride	1.0	U	1.0
Chloroethane	2.6	U	2.6
Trichlorofluoromethane	7.9		2.2
1,1-Dichloroethene	1.6	U	1.6
Acetone	88		24
Methylene Chloride	6.9		3.5
Methyl tert-butyl ether	1.4	U	1.4
trans-1,2-Dichloroethene	1.6	U	1.6
1,1-Dichloroethane	1.6	U	1.6
Methyl Ethyl Ketone	14		2.9
cis-1,2-Dichloroethene	1.6	U	1.6
Chloroform	2.0	U	2.0
1,1,1-Trichloroethane	2.2	U	2.2
Carbon tetrachloride	2.5	U	2.5
Benzene	11		1.3
1,2-Dichloroethane	1.6	U	1.6
Trichloroethene	2.1	U	2.1
1,2-Dichloropropane	1.8	U	1.8
Bromodichloromethane	2.7	U	2.7
cis-1,3-Dichloropropene	1.8	U	1.8
methyl isobutyl ketone	4.1	U	4.1
Toluene	150		1.5
trans-1,3-Dichloropropene	1.8	U	1.8
1,1,2-Trichloroethane	2.2	U	2.2
Tetrachloroethene	2.7	U	2.7
Dibromochloromethane	3.4	U	3.4
1,2-Dibromoethane	3.1	U	3.1
Chlorobenzene	1.8	U	1.8
Ethylbenzene	14		1.7
m,p-Xylene	44		4.3
Xylene, o-	16		1.7
Xylene (total)	60		1.7
Styrene	1.7	U	1.7
Bromoform	4.1	U	4.1
Cumene	2.0	U	2.0
1,1,2,2-Tetrachloroethane	2.7	U	2.7
1,3,5-Trimethylbenzene	5.9		2.0
1,2,4-Trimethylbenzene	21		2.0
sec-Butylbenzene	2.2	U	2.2
4-Isopropyltoluene	2.2	U	2.2
1,3-Dichlorobenzene	2.4	U	2.4
1,4-Dichlorobenzene	3.5		2.4
n-Butylbenzene	2.2	U	2.2
1,2-Dichlorobenzene	2.4	U	2.4

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Client Sample ID: **1253662**

Lab Sample ID: 200-10012-1

Client Matrix: Air

Date Sampled: 03/22/2012 1330

Date Received: 03/24/2012 1105

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35807	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklak013.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/28/2012 0045			Final Weight/Volume:	200 mL
Prep Date:	03/28/2012 0045			Injection Volume:	200 mL

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Client Sample ID: **1253662**

Lab Sample ID: 200-10012-1

Client Matrix: Air

Date Sampled: 03/22/2012 1330

Date Received: 03/24/2012 1105

TO-15 Volatile Organic Compounds in Ambient Air

Analysis Method:	TO-15	Analysis Batch:	200-35807	Instrument ID:	B.i
Prep Method:	Summa Canister	Prep Batch:	N/A	Lab File ID:	bklak013.d
Dilution:	2.0			Initial Weight/Volume:	100 mL
Analysis Date:	03/28/2012 0045			Final Weight/Volume:	200 mL
Prep Date:	03/28/2012 0045			Injection Volume:	200 mL

Tentatively Identified Compounds **Number TIC's Found:** **0**

Cas Number	Analyte	RT	Est. Result (ppb v/v)	Qualifier
	Tentatively Identified Compound		None	

DATA REPORTING QUALIFIERS

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Lab Section	Qualifier	Description
Air - GC/MS VOA		
	U	Indicates the analyte was analyzed for but not detected.

QUALITY CONTROL RESULTS

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Air - GC/MS VOA					
Analysis Batch:200-35807					
LCS 200-35807/3	Lab Control Sample	T	Air	TO-15	
MB 200-35807/5	Method Blank	T	Air	TO-15	
200-10012-1	1253662	T	Air	TO-15	

Report Basis

T = Total

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Method Blank - Batch: 200-35807

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-35807/5	Analysis Batch:	200-35807	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklak005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/27/2012 1642	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/27/2012 1642			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	0.50	U	0.50
Chloromethane	0.50	U	0.50
Vinyl chloride	0.20	U	0.20
Chloroethane	0.50	U	0.50
Trichlorofluoromethane	0.20	U	0.20
1,1-Dichloroethene	0.20	U	0.20
Acetone	5.0	U	5.0
Methylene Chloride	0.50	U	0.50
Methyl tert-butyl ether	0.20	U	0.20
trans-1,2-Dichloroethene	0.20	U	0.20
1,1-Dichloroethane	0.20	U	0.20
Methyl Ethyl Ketone	0.50	U	0.50
cis-1,2-Dichloroethene	0.20	U	0.20
Chloroform	0.20	U	0.20
1,1,1-Trichloroethane	0.20	U	0.20
Carbon tetrachloride	0.20	U	0.20
Benzene	0.20	U	0.20
1,2-Dichloroethane	0.20	U	0.20
Trichloroethene	0.20	U	0.20
1,2-Dichloropropane	0.20	U	0.20
Bromodichloromethane	0.20	U	0.20
cis-1,3-Dichloropropene	0.20	U	0.20
methyl isobutyl ketone	0.50	U	0.50
Toluene	0.20	U	0.20
trans-1,3-Dichloropropene	0.20	U	0.20
1,1,2-Trichloroethane	0.20	U	0.20
Tetrachloroethene	0.20	U	0.20
Dibromochloromethane	0.20	U	0.20
1,2-Dibromoethane	0.20	U	0.20
Chlorobenzene	0.20	U	0.20
Ethylbenzene	0.20	U	0.20
m,p-Xylene	0.50	U	0.50
Xylene, o-	0.20	U	0.20
Xylene (total)	0.20	U	0.20
Styrene	0.20	U	0.20
Bromoform	0.20	U	0.20
Cumene	0.20	U	0.20
1,1,2,2-Tetrachloroethane	0.20	U	0.20
1,3,5-Trimethylbenzene	0.20	U	0.20
1,2,4-Trimethylbenzene	0.20	U	0.20
sec-Butylbenzene	0.20	U	0.20
4-Isopropyltoluene	0.20	U	0.20
1,3-Dichlorobenzene	0.20	U	0.20
1,4-Dichlorobenzene	0.20	U	0.20
n-Butylbenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Method Blank - Batch: 200-35807

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-35807/5	Analysis Batch:	200-35807	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklak005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/27/2012 1642	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/27/2012 1642			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,2-Dichlorobenzene	0.20	U	0.20

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Method Blank - Batch: 200-35807

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-35807/5	Analysis Batch:	200-35807	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklak005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/27/2012 1642	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	03/27/2012 1642			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
Dichlorodifluoromethane	2.5	U	2.5
Chloromethane	1.0	U	1.0
Vinyl chloride	0.51	U	0.51
Chloroethane	1.3	U	1.3
Trichlorofluoromethane	1.1	U	1.1
1,1-Dichloroethene	0.79	U	0.79
Acetone	12	U	12
Methylene Chloride	1.7	U	1.7
Methyl tert-butyl ether	0.72	U	0.72
trans-1,2-Dichloroethene	0.79	U	0.79
1,1-Dichloroethane	0.81	U	0.81
Methyl Ethyl Ketone	1.5	U	1.5
cis-1,2-Dichloroethene	0.79	U	0.79
Chloroform	0.98	U	0.98
1,1,1-Trichloroethane	1.1	U	1.1
Carbon tetrachloride	1.3	U	1.3
Benzene	0.64	U	0.64
1,2-Dichloroethane	0.81	U	0.81
Trichloroethene	1.1	U	1.1
1,2-Dichloropropane	0.92	U	0.92
Bromodichloromethane	1.3	U	1.3
cis-1,3-Dichloropropene	0.91	U	0.91
methyl isobutyl ketone	2.0	U	2.0
Toluene	0.75	U	0.75
trans-1,3-Dichloropropene	0.91	U	0.91
1,1,2-Trichloroethane	1.1	U	1.1
Tetrachloroethene	1.4	U	1.4
Dibromochloromethane	1.7	U	1.7
1,2-Dibromoethane	1.5	U	1.5
Chlorobenzene	0.92	U	0.92
Ethylbenzene	0.87	U	0.87
m,p-Xylene	2.2	U	2.2
Xylene, o-	0.87	U	0.87
Xylene (total)	0.87	U	0.87
Styrene	0.85	U	0.85
Bromoform	2.1	U	2.1
Cumene	0.98	U	0.98
1,1,2,2-Tetrachloroethane	1.4	U	1.4
1,3,5-Trimethylbenzene	0.98	U	0.98
1,2,4-Trimethylbenzene	0.98	U	0.98
sec-Butylbenzene	1.1	U	1.1
4-Isopropyltoluene	1.1	U	1.1
1,3-Dichlorobenzene	1.2	U	1.2
1,4-Dichlorobenzene	1.2	U	1.2
n-Butylbenzene	1.1	U	1.1

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Method Blank - Batch: 200-35807

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	MB 200-35807/5	Analysis Batch:	200-35807	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklak005.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/27/2012 1642	Units:	ug/m3	Final Weight/Volume:	200 mL
Prep Date:	03/27/2012 1642			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Result	Qual	RL
1,2-Dichlorobenzene	1.2	U	1.2

Method Blank TICs- Batch: 200-35807

Cas Number	Analyte	RT	Est. Result	Qual
	Tentatively Identified Compound		None	

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Lab Control Sample - Batch: 200-35807

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-35807/3	Analysis Batch:	200-35807	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklak003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/27/2012 1552	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/27/2012 1552			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Dichlorodifluoromethane	10.0	11.7	118	70 - 130	
Chloromethane	10.0	12.1	121	70 - 130	
Vinyl chloride	10.0	11.6	116	70 - 130	
Chloroethane	10.0	10.7	107	70 - 130	
Trichlorofluoromethane	10.0	11.4	114	70 - 130	
1,1-Dichloroethene	10.0	9.93	99	70 - 130	
Acetone	10.0	11.4	114	70 - 130	
Methylene Chloride	10.0	10.7	107	70 - 130	
Methyl tert-butyl ether	10.0	10.2	102	70 - 130	
trans-1,2-Dichloroethene	10.0	10.1	101	70 - 130	
1,1-Dichloroethane	10.0	9.94	99	70 - 130	
Methyl Ethyl Ketone	10.0	9.38	94	70 - 130	
cis-1,2-Dichloroethene	10.0	9.39	94	70 - 130	
Chloroform	10.0	10.1	101	70 - 130	
1,1,1-Trichloroethane	10.0	10.5	105	70 - 130	
Carbon tetrachloride	10.0	10.5	105	70 - 130	
Benzene	10.0	9.16	92	70 - 130	
1,2-Dichloroethane	10.0	11.2	112	70 - 130	
Trichloroethene	10.0	9.47	95	70 - 130	
1,2-Dichloropropane	10.0	9.21	92	70 - 130	
Bromodichloromethane	10.0	10.8	108	70 - 130	
cis-1,3-Dichloropropene	10.0	9.72	97	70 - 130	
methyl isobutyl ketone	10.0	10.9	109	70 - 130	
Toluene	10.0	9.15	91	70 - 130	
trans-1,3-Dichloropropene	10.0	10.1	102	70 - 130	
1,1,2-Trichloroethane	10.0	8.93	89	70 - 130	
Tetrachloroethene	10.0	8.97	90	70 - 130	
Dibromochloromethane	10.0	10.5	105	70 - 130	
1,2-Dibromoethane	10.0	9.28	93	70 - 130	
Chlorobenzene	10.0	8.88	89	70 - 130	
Ethylbenzene	10.0	9.44	94	70 - 130	
m,p-Xylene	20.0	18.4	92	70 - 130	
Xylene, o-	10.0	9.07	91	70 - 130	
Styrene	10.0	9.56	96	70 - 130	
Bromoform	10.0	10.6	106	70 - 130	
Cumene	10.0	9.61	96	70 - 130	
1,1,2,2-Tetrachloroethane	10.0	9.10	91	70 - 130	
1,3,5-Trimethylbenzene	10.0	9.56	96	70 - 130	
1,2,4-Trimethylbenzene	10.0	9.40	94	70 - 130	
sec-Butylbenzene	10.0	9.60	96	70 - 130	
4-Isopropyltoluene	10.0	9.81	98	70 - 130	

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Lab Control Sample - Batch: 200-35807

Method: TO-15
Preparation: Summa Canister

Lab Sample ID:	LCS 200-35807/3	Analysis Batch:	200-35807	Instrument ID:	B.i
Client Matrix:	Air	Prep Batch:	N/A	Lab File ID:	bklak003.d
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	200 mL
Analysis Date:	03/27/2012 1552	Units:	ppb v/v	Final Weight/Volume:	200 mL
Prep Date:	03/27/2012 1552			Injection Volume:	200 mL
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
1,3-Dichlorobenzene	10.0	8.90	89	70 - 130	
1,4-Dichlorobenzene	10.0	8.92	89	70 - 130	
n-Butylbenzene	10.0	10.2	102	70 - 130	
1,2-Dichlorobenzene	10.0	8.70	87	70 - 130	

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403
phone 802-660-1990 fax 802-660-1919

Canister Samples Chain of Custody Record

TestAmerica Analytical Testing Corp. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information	Project Manager: Joe Trzask	Samples Collected By: LPC	1 of 1 COCs
Company: LEA	Phone: 860-410-2942		
Address: 100 Northwest Drive	Email: Jttrzask@loureiro.com		
City/State/Zip Plainville, CT 06062			
Phone: 860-747-6181	Site Contact:		
FAX: 860-747-8822	TA Contact: Rocky Mason		
Project Name: OSL VIMP	**Analysis Turnaround Time**		
Site: OSL	Standard (Specify) 7 Day		
PO #	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
1253662	3-22-12	0850	1330	-29	-8	5188	3530	X											

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time: 3-22-12	Samples Received by:	3-23-12 13:30
Samples Relinquished by: Bernadette Capece	Date/Time: 3/23/12 @ 15:00	Received by:	
Relinquished by:	Date/Time:	Received by:	

Lab Use Only **Shipper Name:** **Opened by:** **Condition:**

ORIGIN ID: OXCA (203) 929-8140
SCOTT HALL
TESTAMERICA
128 LONG HILL CROSS RD

SHELTON, CT 06484
UNITED STATES US

SHIP DATE: 23MAR12
ACTWGT: 12.0 LB
CAD: 688819/CAFE2511

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990 REF:
INV:
PO: DEPT:

FedEx
Express

SATURDAY ### A4
PRIORITY OVERNIGHT

TRK# 0201 4501 3068 2784

XO BTVA

05403
VT-US BTV

Login Sample Receipt Checklist

Client: Loureiro Engineering Associates

Job Number: 200-10012-1

Login Number: 10012

List Source: TestAmerica Burlington

List Number: 1

Creator: Kirchner, Benjamin

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	N/A	Thermal preservation not required.
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	AMBIENT
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	N/A	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	Check done at department level as required.

APPENDIX D

Data Quality Assessment Worksheets

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: TestAmerica
Project: UTC-Old Southington Landfill
Commission # 61SL902
SDG: 220-15753-1
Date Samples Collected 6/15/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Detects: Potential Constituents of Concern (detected) in this SDG: None

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS: RVC, IVC, SWPC
RL exceeded for Regulatory Criteria None

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15753-1	1230188	1	CB-MW-01	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230188	1	CB-MW-01	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230188	1	CB-MW-01	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230188	1	CB-MW-01	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230188	1	CB-MW-01	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230188	1	CB-MW-01	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230188	1	CB-MW-01	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230188	1	CB-MW-01	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230188	1	CB-MW-01	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230188	1	CB-MW-01	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230188	1	CB-MW-01	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230188	1	CB-MW-01	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1246253	2	CB-MW-01	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1246253	2	CB-MW-01	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1246253	2	CB-MW-01	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1246253	2	CB-MW-01	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1246253	2	CB-MW-01	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1246253	2	CB-MW-01	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1246253	2	CB-MW-01	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1246253	2	CB-MW-01	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1246253	2	CB-MW-01	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1246253	2	CB-MW-01	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1246253	2	CB-MW-01	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1246253	2	CB-MW-01	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230175	3	CB-MW-01	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230175	3	CB-MW-01	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230175	3	CB-MW-01	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230175	3	CB-MW-01	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230175	3	CB-MW-01	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230175	3	CB-MW-01	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230175	3	CB-MW-01	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230175	3	CB-MW-01	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230175	3	CB-MW-01	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230175	3	CB-MW-01	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230175	3	CB-MW-01	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230175	3	CB-MW-01	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230184	4	CB-MW-02	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230184	4	CB-MW-02	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230184	4	CB-MW-02	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230184	4	CB-MW-02	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230184	4	CB-MW-02	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230184	4	CB-MW-02	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230184	4	CB-MW-02	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230184	4	CB-MW-02	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230184	4	CB-MW-02	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230184	4	CB-MW-02	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230184	4	CB-MW-02	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230184	4	CB-MW-02	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1246254	5	CB-MW-02	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1246254	5	CB-MW-02	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1246254	5	CB-MW-02	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: TestAmerica
Project: UTC-Old Southington Landfill
Commission # 61SL902
SDG: 220-15753-1
Date Samples Collected 6/15/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Detects: Potential Constituents of Concern (detected) in this SDG: None

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS: RVC, IVC, SWPC
RL exceeded for Regulatory Criteria None

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15753-1	1246254	5	CB-MW-02	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1246254	5	CB-MW-02	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1246254	5	CB-MW-02	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1246254	5	CB-MW-02	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1246254	5	CB-MW-02	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1246254	5	CB-MW-02	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1246254	5	CB-MW-02	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1246254	5	CB-MW-02	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1246254	5	CB-MW-02	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230189	6	CB-MW-02	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230189	6	CB-MW-02	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230189	6	CB-MW-02	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230189	6	CB-MW-02	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230189	6	CB-MW-02	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230189	6	CB-MW-02	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230189	6	CB-MW-02	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230189	6	CB-MW-02	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230189	6	CB-MW-02	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230189	6	CB-MW-02	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230189	6	CB-MW-02	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230189	6	CB-MW-02	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230180	7	CB-MW-03	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230180	7	CB-MW-03	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230180	7	CB-MW-03	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230180	7	CB-MW-03	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230180	7	CB-MW-03	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230180	7	CB-MW-03	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230180	7	CB-MW-03	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230180	7	CB-MW-03	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230180	7	CB-MW-03	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230180	7	CB-MW-03	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230180	7	CB-MW-03	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230180	7	CB-MW-03	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1246274	8	CB-MW-03	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1246274	8	CB-MW-03	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1246274	8	CB-MW-03	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1246274	8	CB-MW-03	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1246274	8	CB-MW-03	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1246274	8	CB-MW-03	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1246274	8	CB-MW-03	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1246274	8	CB-MW-03	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1246274	8	CB-MW-03	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1246274	8	CB-MW-03	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1246274	8	CB-MW-03	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1246274	8	CB-MW-03	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230194	9	CB-MW-03	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230194	9	CB-MW-03	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230194	9	CB-MW-03	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230194	9	CB-MW-03	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230194	9	CB-MW-03	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230194	9	CB-MW-03	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: TestAmerica
Project: UTC-Old Southington Landfill
Commission # 61SL902
SDG: 220-15753-1
Date Samples Collected 6/15/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Detects: Potential Constituents of Concern (detected) in this SDG: None

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS: RVC, IVC, SWPC
RL exceeded for Regulatory Criteria None

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15753-1	1230194	9	CB-MW-03	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230194	9	CB-MW-03	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230194	9	CB-MW-03	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230194	9	CB-MW-03	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230194	9	CB-MW-03	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230194	9	CB-MW-03	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230181	11	CB-MW-04	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230181	11	CB-MW-04	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230181	11	CB-MW-04	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230181	11	CB-MW-04	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230181	11	CB-MW-04	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230181	11	CB-MW-04	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230181	11	CB-MW-04	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230181	11	CB-MW-04	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230181	11	CB-MW-04	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230181	11	CB-MW-04	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230181	11	CB-MW-04	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230181	11	CB-MW-04	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230183	12	CB-MW-05	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230183	12	CB-MW-05	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230183	12	CB-MW-05	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230183	12	CB-MW-05	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230183	12	CB-MW-05	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230183	12	CB-MW-05	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230183	12	CB-MW-05	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230183	12	CB-MW-05	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230183	12	CB-MW-05	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230183	12	CB-MW-05	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230183	12	CB-MW-05	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230183	12	CB-MW-05	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230185	13	CB-MW-05	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230185	13	CB-MW-05	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230185	13	CB-MW-05	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230185	13	CB-MW-05	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230185	13	CB-MW-05	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230185	13	CB-MW-05	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230185	13	CB-MW-05	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230185	13	CB-MW-05	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230185	13	CB-MW-05	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230185	13	CB-MW-05	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230185	13	CB-MW-05	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230185	13	CB-MW-05	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230192	14	CB-MW-06	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230192	14	CB-MW-06	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230192	14	CB-MW-06	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230192	14	CB-MW-06	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230192	14	CB-MW-06	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230192	14	CB-MW-06	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230192	14	CB-MW-06	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230192	14	CB-MW-06	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230192	14	CB-MW-06	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: TestAmerica
Project: UTC-Old Southington Landfill
Commission # 61SL902
SDG: 220-15753-1
Date Samples Collected 6/15/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Detects: Potential Constituents of Concern (detected) in this SDG: None

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS: RVC, IVC, SWPC
RL exceeded for Regulatory Criteria None

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15753-1	1230192	14	CB-MW-06	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230192	14	CB-MW-06	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230192	14	CB-MW-06	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	
220-15753-1	1230193	10	Trip Blank	Chloroethane	Laboratory Control Sample (%R)	144.0%	high	ND<1.0 ug/l	
220-15753-1	1230193	10	Trip Blank	1,3,5-Trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230193	10	Trip Blank	1,2,4-Trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15753-1	1230193	10	Trip Blank	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15753-1	1230193	10	Trip Blank	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15753-1	1230193	10	Trip Blank	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15753-1	1230193	10	Trip Blank	tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15753-1	1230193	10	Trip Blank	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15753-1	1230193	10	Trip Blank	Xylene, m&p	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15753-1	1230193	10	Trip Blank	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15753-1	1230193	10	Trip Blank	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15753-1	1230193	10	Trip Blank	Dichlorodifluoromethane	Continuing Calibration Verfication (%D)	-32.4%	low	ND<1.0 ug/l	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: TestAmerica
Project: UTC-Old Southington Landfill
Commission # 61SL902
SDG: 220-15779-1
Date Samples Collected 6/16/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Detects: Potential Constituents of Concern (detected) in this SDG: **Bold**

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS: RVC, IVC, SWPC
RL exceeded for Regulatory Criteria None

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15779-1	1230186	4	CB-MW-07	**1,1,1-Trichloroethane**	**Laboratory Control Sample (%R)**	**134.0%**	**high**	**1.1 ug/l**	
220-15779-1	1230186	4	CB-MW-07	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230186	4	CB-MW-07	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230186	4	CB-MW-07	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230186	4	CB-MW-07	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230186	4	CB-MW-07	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	
220-15779-1	1230182	1	CB-MW-08	1,1,1-Trichloroethane	Laboratory Control Sample (%R)	134.0%	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230182	1	CB-MW-08	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230182	1	CB-MW-08	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230182	1	CB-MW-08	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230182	1	CB-MW-08	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	
220-15779-1	1230190	3	Equipment	1,1,1-Trichloroethane	Laboratory Control Sample (%R)	134.0%	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230190	3	Equipment	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230190	3	Equipment	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230190	3	Equipment	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230190	3	Equipment	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**TestAmerica**
Project:	**UTC-Old Southington Landfill**
Commission #	**61SL902**
SDG:	**220-15779-1**
Date Samples Collected	**6/16/2011**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Detects: Potential Constituents of Concern (detected) in this SDG: **Bold**

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS: RVC, IVC, SWPC
RL exceeded for Regulatory Criteria None

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15779-1	1230187	5	SDW-9A	1,1,1-Trichloroethane	Laboratory Control Sample (%R)	134.0%	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230187	5	SDW-9A	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230187	5	SDW-9A	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230187	5	SDW-9A	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230187	5	SDW-9A	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	
220-15779-1	1230191	2	Trip Blank	1,1,1-Trichloroethane	Laboratory Control Sample (%R)	134.0%	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230191	2	Trip Blank	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230191	2	Trip Blank	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230191	2	Trip Blank	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230191	2	Trip Blank	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: TestAmerica
Project: UTC-Old Southington Landfill
Commission # 61SL902
SDG: 220-15754-1
Date Samples Collected 6/15/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Detects: Potential Constituents of Concern (detected) in this SDG: None

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS:
RL exceeded for Regulatory Criteria

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15754-1	1230176	1	CE-SV-02	No QC Issues					
220-15754-1	1230177	2	CE-SV-02	No QC Issues					
220-15754-1	1230178	3	CE-SV-02	No QC Issues					
220-15754-1	1230179	4	CE-SV-02	No QC Issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: TestAmerica
Project: UTC-Old Southington Landfill
Commission # 61SL902
SDG: 220-15779-1
Date Samples Collected 6/16/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Detects: Potential Constituents of Concern (detected) in this SDG: **Bold**

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS: RVC, IVC, SWPC
RL exceeded for Regulatory Criteria None

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15779-1	1230186	4	CB-MW-07	**1,1,1-Trichloroethane**	**Laboratory Control Sample (%R)**	**134.0%**	**high**	**1.1 ug/l**	
220-15779-1	1230186	4	CB-MW-07	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230186	4	CB-MW-07	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230186	4	CB-MW-07	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230186	4	CB-MW-07	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230186	4	CB-MW-07	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230186	4	CB-MW-07	chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	
220-15779-1	1230182	1	CB-MW-08	1,1,1-Trichloroethane	Laboratory Control Sample (%R)	134.0%	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230182	1	CB-MW-08	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230182	1	CB-MW-08	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230182	1	CB-MW-08	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230182	1	CB-MW-08	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230182	1	CB-MW-08	Chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	
220-15779-1	1230190	3	Equipment	1,1,1-Trichloroethane	Laboratory Control Sample (%R)	134.0%	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230190	3	Equipment	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230190	3	Equipment	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230190	3	Equipment	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230190	3	Equipment	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230190	3	Equipment	chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**TestAmerica**
Project:	**UTC-Old Southington Landfill**
Commission #	**61SL902**
SDG:	**220-15779-1**
Date Samples Collected	**6/16/2011**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Detects: Potential Constituents of Concern (detected) in this SDG: **Bold**

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS: RVC, IVC, SWPC
RL exceeded for Regulatory Criteria None

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15779-1	1230187	5	SDW-9A	1,1,1-Trichloroethane	Laboratory Control Sample (%R)	134.0%	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230187	5	SDW-9A	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230187	5	SDW-9A	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230187	5	SDW-9A	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230187	5	SDW-9A	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230187	5	SDW-9A	chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	
220-15779-1	1230191	2	Trip Blank	1,1,1-Trichloroethane	Laboratory Control Sample (%R)	134.0%	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	1,1,2-Trichloro-1,2,2-trifluorethane	Laboratory Control Sample (%R)	136.0%	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Carbon Disulfide	Laboratory Control Sample (%R)	138.0%	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Carbon Tetrachloride	Laboratory Control Sample (%R)	140.0%	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Naphthalene	Laboratory Control Sample (%R)	63.0%	low	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	1,3,5-trimethylbenzene	Initial Calibration Curve (RSD)	31.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	1,2,4-trimethylbenzene	Initial Calibration Curve (RSD)	30.6%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	sec-butylbenzene	Initial Calibration Curve (RSD)	27.5%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	n-butylbenzene	Initial Calibration Curve (RSD)	19.9%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	4-isopropyltoluene	Initial Calibration Curve (RSD)	31.7%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Tert-butylbenzene	Initial Calibration Curve (RSD)	28.3%	non-directional	ND<1.0 ug/l	
220-15779-1	1230191	2	Trip Blank	Hexachlorobutadiene	Initial Calibration Curve (RSD)	23.4%	non-directional	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	Xylene, m&p-	Initial Calibration Curve (RSD)	28.5%	non-directional	ND<1.0 ug/l	
220-15779-1	1230191	2	Trip Blank	Chloroethane	Initial Calibration Curve	-		ND<1.0 ug/l	Quadratic Regression
220-15779-1	1230191	2	Trip Blank	n-propylbenzene	Initial Calibration Curve	-		ND<0.5 ug/l	Quadratic Regression
220-15779-1	1230191	2	Trip Blank	Trichlorofluoromethane	Continuing Calibration Verification (%D)	32.1%D	high	ND<0.5 ug/l	
220-15779-1	1230191	2	Trip Blank	chloroethane	Continuing Calibration Verification (%D)	61.5%D	high	ND<1.0 ug/l	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: TestAmerica
Project: UTC-Old Southington Landfill
Commission # 61SL902
SDG: 220-15754-1
Date Samples Collected 6/15/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Detects: Potential Constituents of Concern (detected) in this SDG: None

REPORTING LIMITS CHECKED FOR THE FOLLOWING REGULATORY CRITERIA LISTS:
RL exceeded for Regulatory Criteria

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC OUTLIER	%R / RPD Method Blank Contamination	BIAS	Sample Result	COMMENTS
220-15754-1	1230176	1	CE-SV-02	No QC Issues					
220-15754-1	1230177	2	CE-SV-02	No QC Issues					
220-15754-1	1230178	3	CE-SV-02	No QC Issues					
220-15754-1	1230179	4	CE-SV-02	No QC Issues					

DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Test America
Project: Old Southington Landfill Groundwater
Commission # 61SL902.003
SDG: 220-16485-1
Date Samples Collected 9/13/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.
Note 2: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
220-16485-1	1239898	220-16584-1	CB-MW-02	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239898	220-16584-1	CB-MW-02	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239898	220-16584-1	CB-MW-02	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239898	220-16584-1	CB-MW-02	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239898	220-16584-1	CB-MW-02	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239898	220-16584-1	CB-MW-02	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239901	220-16584-2	CB-MW-04	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239901	220-16584-2	CB-MW-04	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239901	220-16584-2	CB-MW-04	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239901	220-16584-2	CB-MW-04	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239901	220-16584-2	CB-MW-04	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239901	220-16584-2	CB-MW-04	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239910	220-16584-3	CB-MW-04	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239910	220-16584-3	CB-MW-04	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239910	220-16584-3	CB-MW-04	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239910	220-16584-3	CB-MW-04	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239910	220-16584-3	CB-MW-04	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239910	220-16584-3	CB-MW-04	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239909	220-16584-4	TRIP BLANK	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239909	220-16584-4	TRIP BLANK	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239909	220-16584-4	TRIP BLANK	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239909	220-16584-4	TRIP BLANK	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239909	220-16584-4	TRIP BLANK	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239909	220-16584-4	TRIP BLANK	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239908	220-16584-5	EQUIPMENT	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239908	220-16584-5	EQUIPMENT	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239908	220-16584-5	EQUIPMENT	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239908	220-16584-5	EQUIPMENT	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239908	220-16584-5	EQUIPMENT	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239908	220-16584-5	EQUIPMENT	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239906	220-16584-6	CB-MW-01	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239906	220-16584-6	CB-MW-01	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239906	220-16584-6	CB-MW-01	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239906	220-16584-6	CB-MW-01	Naphthalene	Laboratory Control Sample	66% / 63%	Low	

DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Test America
Project: Old Southington Landfill Groundwater
Commission # 61SL902.003
SDG: 220-16485-1
Date Samples Collected 9/13/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.
Note 2: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
220-16485-1	1239906	220-16584-6	CB-MW-01	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239906	220-16584-6	CB-MW-01	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239900	220-16584-7	CB-MW-01	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239900	220-16584-7	CB-MW-01	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239900	220-16584-7	CB-MW-01	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239900	220-16584-7	CB-MW-01	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239900	220-16584-7	CB-MW-01	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239900	220-16584-7	CB-MW-01	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239899	220-16584-8	CB-MW-03	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239899	220-16584-8	CB-MW-03	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239899	220-16584-8	CB-MW-03	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239899	220-16584-8	CB-MW-03	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239899	220-16584-8	CB-MW-03	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239899	220-16584-8	CB-MW-03	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239905	220-16584-9	CB-MW-05	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239905	220-16584-9	CB-MW-05	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239905	220-16584-9	CB-MW-05	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239905	220-16584-9	CB-MW-05	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239905	220-16584-9	CB-MW-05	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239905	220-16584-9	CB-MW-05	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	
220-16485-1	1239902	220-16584-10	CB-MW-07	Methylene Chloride	Method Blank Contamination	2.21 ug/L	High	Calculated AL is 22.1 ug/L
220-16485-1	1239902	220-16584-10	CB-MW-07	Acetone	Laboratory Control Sample	69%	Low	
220-16485-1	1239902	220-16584-10	CB-MW-07	Hexachlorobutadiene	Laboratory Control Sample	58% / 52%	Low	
220-16485-1	1239902	220-16584-10	CB-MW-07	Naphthalene	Laboratory Control Sample	66% / 63%	Low	
220-16485-1	1239902	220-16584-10	CB-MW-07	1,2,3-Trichlorobenzene	Laboratory Control Sample	63%	Low	
220-16485-1	1239902	220-16584-10	CB-MW-07	1,2,4-Trichlorobenzene	Laboratory Control Sample	68% / 61%	Low	

DEEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Test America**
Project:	**Old Southington Landfill Groundwater**
Commission #	**61SL902.003**
SDG:	**220-16510-1**
Date Samples Collected	**9/13/2011 - 9/14/2011**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Initial and continuing calibration QC non-conformances have been evaluated but are not included in the following DQA spreadsheet.**
Note 2: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher.

SDG	SAMPLE #	Lab #	Location ID	COMPOUND	QC PARAMETER	QC OUTLIER (%R / %D / RPD / RSD) Blank Contamination	BIAS	COMMENTS
220-16510-1	1238362	220-16510-1	RS-SV-01	No QC Issues				
220-16510-1	1238363	220-16510-2	RS-SV-02	No QC Issues				
220-16510-1	1238364	220-16510-3	CE-SV-02	No QC Issues				
220-16510-1	1238365	220-16510-4	CE-SV-01	No QC Issues				

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Test America
Project: Old Southington Landfill Groundwater
Commission # 61SL9.02
SDG: 360-38116-1
Date Samples Collected 12/12/2011
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	Depth	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
360-38116-1	1246260	360-38116-2	CB-MW-01	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246260	360-38116-2	CB-MW-01	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246260	360-38116-2	CB-MW-01	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246260	360-38116-2	CB-MW-01	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246260	360-38116-2	CB-MW-01	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246255	360-38116-3	CB-MW-01	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246255	360-38116-3	CB-MW-01	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246255	360-38116-3	CB-MW-01	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246255	360-38116-3	CB-MW-01	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246255	360-38116-3	CB-MW-01	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246259	360-38116-4	CB-MW-02	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246259	360-38116-4	CB-MW-02	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246259	360-38116-4	CB-MW-02	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246259	360-38116-4	CB-MW-02	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246259	360-38116-4	CB-MW-02	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246258	360-38116-5	CB-MW-03	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246258	360-38116-5	CB-MW-03	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246258	360-38116-5	CB-MW-03	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246258	360-38116-5	CB-MW-03	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246258	360-38116-5	CB-MW-03	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246257	360-38116-6	CB-MW-03	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246257	360-38116-6	CB-MW-03	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246257	360-38116-6	CB-MW-03	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246257	360-38116-6	CB-MW-03	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246257	360-38116-6	CB-MW-03	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246264	360-38116-7	CB-MW-04	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246264	360-38116-7	CB-MW-04	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246264	360-38116-7	CB-MW-04	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246264	360-38116-7	CB-MW-04	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246264	360-38116-7	CB-MW-04	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246256	360-38116-8	CB-MW-04	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246256	360-38116-8	CB-MW-04	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246256	360-38116-8	CB-MW-04	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246256	360-38116-8	CB-MW-04	NA	Carbon disulfide	LCS %R	139		high	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Test America**
Project:	**Old Southington Landfill Groundwater**
Commission #	**61SL9.02**
SDG:	**360-38116-1**
Date Samples Collected	**12/12/2011**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

360-38116-1	1246264f	360-38116-8	CB-MW-04	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246263	360-38116-11	CB-MW-05	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246263	360-38116-11	CB-MW-05	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246263	360-38116-11	CB-MW-05	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246263	360-38116-11	CB-MW-05	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246263	360-38116-11	CB-MW-05	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246266	360-38116-12	CB-MW-05	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246266	360-38116-12	CB-MW-05	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246266	360-38116-12	CB-MW-05	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246266	360-38116-12	CB-MW-05	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246266	360-38116-12	CB-MW-05	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246262	360-38116-9	CB-MW-06	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246262	360-38116-9	CB-MW-06	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246262	360-38116-9	CB-MW-06	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246262	360-38116-9	CB-MW-06	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246262	360-38116-9	CB-MW-06	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246261	360-38116-1	CB-MW-07	NA	All VOCs	Reporting Limits				Due to limited sample volume, sample run on dilution, elevated RLs reported
360-38116-1	1246261	360-38116-1	CB-MW-07	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246261	360-38116-1	CB-MW-07	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246261	360-38116-1	CB-MW-07	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246261	360-38116-1	CB-MW-07	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246261	360-38116-1	CB-MW-07	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246265	360-38116-10	CB-MW-08	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246265	360-38116-10	CB-MW-08	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246265	360-38116-10	CB-MW-08	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246265	360-38116-10	CB-MW-08	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246265	360-38116-10	CB-MW-08	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246267	360-38116-14	EQUIPMENT	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246267	360-38116-14	EQUIPMENT	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246267	360-38116-14	EQUIPMENT	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246267	360-38116-14	EQUIPMENT	NA	Carbon disulfide	LCS %R	139		high	
360-38116-1	1246267	360-38116-14	EQUIPMENT	NA	Carbon tetrachloride	LCS %R	142 / 132		high	
360-38116-1	1246268	360-38116-13	SDW-9A	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high	
360-38116-1	1246268	360-38116-13	SDW-9A	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low	
360-38116-1	1246268	360-38116-13	SDW-9A	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low	
360-38116-1	1246268	360-38116-13	SDW-9A	NA	Carbon disulfide	LCS %R	139		high	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Test America**
Project:	**Old Southington Landfill Groundwater**
Commission #	**61SL9.02**
SDG:	**360-38116-1**
Date Samples Collected	**12/12/2011**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

360-38116-1	1246268	360-38116-13	SDW-9A	NA	Carbon tetrachloride	LCS %R	142 / 132		high
360-38116-1	1246269	360-38116-15	TRIP BLANK	NA	Carbon tetrachloride	CCAL	>30% Diff	<30% Diff	high
360-38116-1	1246269	360-38116-15	TRIP BLANK	NA	Trans-1,4-dichloro-2-butene	CCAL	>30% Diff	<30% Diff	low
360-38116-1	1246269	360-38116-15	TRIP BLANK	NA	Trans-1,4-dichloro-2-butene	LCS %R	64 / 68		low
360-38116-1	1246269	360-38116-15	TRIP BLANK	NA	Carbon disulfide	LCS %R	139		high
360-38116-1	1246269	360-38116-15	TRIP BLANK	NA	Carbon tetrachloride	LCS %R	142 / 132		high

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Test America**
Project:	**Old Southington Landfill**
Commission #	**61SL9.02**
SDG:	**200-8556-1**
Date Samples Collected	**12/12/2011**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	Depth	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	Low	High	Comments
200-8556-1	1246272	200-8556-3	CE-SV-01	NA	VOCs	Elevated Reporting Limits				X10 Dilution
200-8556-1	1246273	200-8556-4	CE-SV-02	NA	VOCs	Elevated Reporting Limits				X2 Dilution
200-8556-1	1246270	200-8556-1	RS-SV-01	NA	No QC Issues					
200-8556-1	1246271	200-8556-2	RS-SV-02	NA	No QC Issues					

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory: Test America
Project: Old Southington Landfill Groundwater
Commission # 61SL9.02 003
SDG: 360-39595-1
Date Samples Collected 3/15/2012
RCP Certification Form Included: Yes
Laboratory Case Narrative Included: Yes

Note 1: Bias High: reported result may be lower, RLs are accepted as reported.
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	Depth	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	RPD	BIAS	COMMENTS
360-39595	1253652	360-39595-3	CB-MW-01	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253654	360-39595-4	CB-MW-01	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253651	360-39595-2	CB-MW-02	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253650	360-39595-1	CB-MW-03	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253655	360-39595-5	CB-MW-04	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253656	360-39595-6	CB-MW-05	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253657	360-39595-7	CB-MW-06	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253658	360-39595-8	CB-MW-07	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253646	360-39595-10	CB-MW-08	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253660	360-39595-9	CB-MW-08	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253661	360-39595-12	Equipment Blank	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	
360-39595	1253647	360-39595-11	SDW-9A	NA	All VOCs	Elevated Reporting Limits				Sample diluted due to limited sample volume RLs were adjusted accordingly
360-39595	1253647	360-39595-11	SDW-9A	NA	Dichlorodifluoromethane	LCS %R	145	70-130	high	

CT DEP Reasonable Confidence Protocol - Data Quality Assessment Worksheet

Laboratory:	**Test America**
Project:	**Old Southington Landfill**
Commission #	**61SL9.02 003**
SDG:	**200-9877-1**
Date Samples Collected	**3/15/2012**
RCP Certification Form Included:	**Yes**
Laboratory Case Narrative Included:	**Yes**

Note 1: **Bias High: reported result may be lower, RLs are accepted as reported.**
Bias Low: reported result may be higher, RLs may be higher

SDG	SAMPLE #	Lab #	Location ID	Depth	COMPOUND	QC OUTLIER	%R or Method Blank Contamination	Low	High	Comments
200-9877	200-9877-1	1253663	CE-SV-02	NA	All VOCs	Elevated Reporting Limits				Sample diluted due to high target compounds
200-9877	200-9877-1	1253663	CE-SV-02	NA	Acrylonitrile 1,3-dichlorproprane 1,1,1,2-tetrachloroethane	Evaluated as TICs				These compounds were evaluated as TICs since they are not part of the laboratory's TO-15 Calibration
200-9877	200-9877-3	1253665	Northern	NA	Acrylonitrile 1,3-dichlorproprane 1,1,1,2-tetrachloroethane	Evaluated as TICs				These compounds were evaluated as TICs since they are not part of the laboratory's TO-15 Calibration
200-9877	200-9877-2	1253664	Southern	NA	Acrylonitrile 1,3-dichlorproprane 1,1,1,2-tetrachloroethane	Evaluated as TICs				These compounds were evaluated as TICs since they are not part of the laboratory's TO-15 Calibration