



AEI Consultants

Environmental & Engineering Services

RECEIVED

By Alameda County Environmental Health 1:25 pm, Apr 05, 2016

March 30, 2016

Report on Additional Soil, Groundwater and Soil Vapor Investigations

Property Identification:

Lucasey Manufacturing Site
2744 East Eleventh Street
Oakland, California

AEI Project No. 345989

Prepared for:

Risa Investments, LLC

Prepared by:

AEI Consultants
2550 Camino Diablo
Walnut Creek, California 94567
(925) 746-6000

Environmental &
Engineering Due
Diligence

Site Investigation &
Remediation

Energy Performance
& Benchmarking

Industrial Hygiene

National Presence

Regional Focus

Local Solutions

This page intentionally left blank.



March 30, 2016

Ms. Dilan Roe

Alameda County Department of Environmental Health

1131 Harbor Bay Parkway, Suite 250

Alameda, California 94502

Subject: Transmittal, Report on Additional Soil, Groundwater, and Soil Vapor Investigations
Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California
Toxics Case No. RO0003183

Dear Ms. Roe:

Enclosed is the *Report on Additional Soil, Groundwater, and Soil Vapor Investigations* prepared at your request for activities at 2744 East Eleventh Street in Oakland, California (Voluntary Remedial Action Case No. RO0003183).

On behalf of Risa Investments, LLC, I declare under penalty of perjury, that the information and/or recommendations contained in the attached report for the above-referenced site are true and correct to the best of my knowledge.

If you have any questions or need additional information, please do not hesitate to contact Mr. Trent Weise of AEI Consultants at (408) 559-7600.

Sincerely,

Risa Investments, LLC



Paul DiCarlo
Director

Enclosures

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

TABLE OF CONTENTS

TABLE OF CONTENTS

TABLE OF CONTENTS..... I

SIGNATURES III

1. INTRODUCTION1

2. BACKGROUND1

3. INVESTIGATION ACTIVITIES.....3

3.1 Preliminary Field Activities.....3

3.2 Utility Clearance and Sewer Survey4

3.3 Subsurface Investigation.....4

3.3.1 Soil Sampling5

3.3.2 Groundwater Investigation5

3.3.2 Soil Vapor Sampling.....6

4. SELECTION OF COMPARISON VALUES6

5. ANALYTICAL RESULTS.....7

5.1 Soil Sample Analytical Results7

5.2 Groundwater Sample Analytical Results8

5.3 Soil Vapor Sample Analytical Results.....8

5.4 Quality Assurance / Quality Control8

6. CONCLUSIONS9

7. REFERENCES10

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

TABLES

Table 1	Summary of Soil Analytical Data
Table 2	Summary of Groundwater Analytical Data
Table 3	Summary of Soil Vapor Analytical Data

FIGURES

Figure 1	Site Location Map
Figure 2	Site Map
Figure 3	PCE in Soil Vapor and Groundwater
Figure 4	Benzene in Soil Vapor

APPENDICES

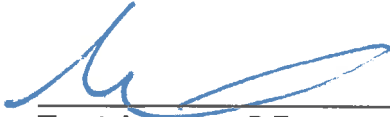
Appendix A	Soil Boring Permits
Appendix B	Soil Boring Logs
Appendix C	Laboratory Analytical Reports

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

SIGNATURES

This document was prepared by, or under the direction of, the undersigned:



Trent A. Weise, P.E.
Principal Engineer



Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

1. INTRODUCTION

On behalf of Risa Investments, LLC, AEI Consultants (AEI) has prepared this document presenting the methodology and results of soil, groundwater, and soil vapor sampling performed at the Lucasey Manufacturing site located at 2744 East Eleventh Street in Oakland, California ("the Site"). The Site is currently in the planning stages for redevelopment as work/live development using the existing buildings. The investigation included collecting additional soil, groundwater and soil vapor samples at the Site, including:

- On February 29 and March 1, 2016, 12 semi-permanent soil vapor probes were installed at the Site; 11 were in locations of historical soil vapor sampling events, and 1 was located to the south of the Building 3.
- On March 1, 2016, a total of 7 soil borings were advanced for the collection of soil and groundwater samples.
- On March 1, 2016, a utility survey of accessible sewer utilities along the interior of the Lucasey Manufacturing building was conducted.
- On March 3, 2016, a total of 12 soil gas samples were collected from the semi-permanent soil vapor probes at the Site.

These additional subsurface investigations were conducted in accordance with the requests of the ACEH with the purposes of addressing data gaps in historical groundwater data, attempting to identify whether a primary or secondary source of tetrachloroethylene (PCE) groundwater and soil vapor contamination, identifying soil microbial metabolic conditions, and characterizing the lateral extent of PCE in soil vapor. Data collected as part of this investigation is intended to supplement historical data to inform if the proposed engineering controls and data driven separation of work and live spaces are appropriate for the protection of human health under a residential use scenario.

2. BACKGROUND

The Site comprises approximately 2.32 acres and is located in an urban mixed use area of Oakland, California, consisting of commercial, residential, and industrial uses. The Site is currently developed with a 104,008 square-foot building built between 1920 and 1922 that is currently used for manufacturing, warehousing. The Site vicinity is shown on Figure 1.

The Site is underlain by generally discontinuous layers of fine-grained deposits comprised of gravely-silt, silty-sands and clay. Two water-yielding horizons have been identified at the Site. First encountered water is observed in an upper unconfined to semi-confined zone present to a depth of approximately 21 feet below ground surface (bgs). A deeper confined zone is present from 24 feet bgs to an unknown depth, which is comprised of clayey-sands.

Petroleum hydrocarbons were released to the subsurface at the Site presumably from a fuel oil tank formerly located in what is now a parking lot located in the southern corner of the Site. Figure 2 presents a Site Plan. Residual petroleum hydrocarbons in Site media include:

- The presence of petroleum hydrocarbons in soil vapor were assessed across the Site and documented in an August 18, 2008 *Results of Gore-Sorber™ Soil Vapor Survey and Recovery*

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

Well Installation report. However, Gore-Sorber™ sampling does not provide sufficient information to assess the potential for vapor intrusion at the Site.

- Soil vapor samples collected on-site in June 2009 yielded benzene at a maximum concentration of 22 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in the soil vapor sample collected from ASV-7. Elevated concentrations of benzene and ethylbenzene were detected in soil vapor samples collected from off-site locations ASV-3 and ASV-4 at maximum concentrations of 740 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and 2,600 $\mu\text{g}/\text{m}^3$, respectively. Naphthalene was not detected in soil vapor samples collected and analyzed at or above laboratory reporting limits.

The fuel release case (RO0002902) was granted closure by ACDEH in a letter dated July 31, 2014. The case was granted closure under Scenario 4 of the Low-Threat Underground Storage Tank Closure Policy (LTCP). The Site Management Requirements of the Case Closure Summary includes that “[b]ased on the depth and type of petroleum hydrocarbons, the potential for exposure is low and the contamination does not appear to present a risk unless exposed by excavation. Therefore, case closure is granted for the current commercial land use.” The conclusion section of the Case Closure Summary notes that “...re-evaluation of this case is required if any excavation takes place below a depth of 8 feet bgs.”

To address potential risks posed by residual petroleum hydrocarbons in soil vapor, soil, and groundwater at the Site to future construction workers, commercial workers, and residents, AEI prepared a Risk Management Plan dated October 20, 2015 (RMP). The RMP recommended installing a vapor intrusion mitigation system within the building to protect indoor air from the concern of vapor intrusion. In discussions with the ACEH upon their review of the RMP, the ACEH requested additional subsurface investigation to assess soil vapor beneath the building in the vicinity of the known area where residual petroleum hydrocarbons are present beneath the Site. In accordance with the Work Plan dated October 30, 2015, AEI advanced and installed temporary soil vapor probes at a depth of five feet below ground surface (bgs) and sub-slab vapor probes at eight (8) locations (ASV-16, ASV-17, ASV-19, ASV-20, ASV-21, ASV-22, ASV-23, and ASV-24) in the vicinity of the known area where residual petroleum hydrocarbons are present beneath the Site. This initial scope of work was completed in November, 2015. Soil vapor and sub-slab vapor samples from this November 2015 investigation identified benzene and PCE as chemicals of potential concern (COPC) with both these compounds present in sub-slab and soil gas samples in excess of the conservative risk screening level for the protection of indoor air. Based on the results of the November 2015 investigation, AEI expanded the scope of the investigation to include an additional seventeen (17) temporary soil vapor probes installed at five feet bgs in a gridded pattern throughout the interior of the on-site manufacturing building (ASV-25 through ASV-41). The expanded scope and proposed sample locations were provided to the ACEH in an electronic mail message dated December 6, 2015 and approved prior to execution. The results of both the November and December phases of the soil vapor investigation are reported in the *Report on Soil Vapor Investigations* dated January 19, 2016. Briefly, the results of this report can be summarized as follows:

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

- Benzene was detected in 24 of the 25 slab soil vapor samples collected and analyzed, and observed at a maximum concentration of 46.9 µg/m³.
- PCE was detected in 23 of the 25 five-foot bgs soil vapor samples collected and analyzed, and observed at a maximum concentration of 1,100 µg/m³.

these two investigations characterized the lateral extent of volatile organic compounds (VOCs) including petroleum hydrocarbons and PCE, beneath the existing building at the Site. Benzene and PCE concentrations in soil vapor were observed at concentrations slightly above conservative risk screening levels for the protection of indoor air under a residential use scenario.

Subsequent to the *Report on Soil Vapor Investigation*, the ACEH requested a review of the available soil, groundwater, and soil-vapor analytical data to determine if the proposed soil vapor mitigation system was sufficient and appropriate to be protective of human health for the redevelopment of the Site for residential use. Following the review of the available data and at the request of the ACEH, AEI consultants prepared an informal work plan to address data gaps in available soil and groundwater data for the Site and to supplement existing soil, groundwater, and soil vapor data. This informal work plan was approved on February 24, 2016 and this document presents the findings of the additional soil, groundwater, and soil vapor investigation.

3. INVESTIGATION ACTIVITIES

In accordance with the informal work plan approved by the ACEH on February 24, 2016, and as described in the March 11, 2016 work plan submitted to ACEH, AEI implemented the following additional investigation. The investigative activities performed as part of this investigation are summarized below:

- Conduct a survey of existing sewer lines and trace historic filled sewer lines based on visible surface conditions.
- Advance and install twelve (12) semi-permanent soil vapor probes for the collection of soil vapor samples.
- Advance seven (7) soil borings to groundwater for the collection of soil and groundwater samples.

3.1 Preliminary Field Activities

Prior to performing field activities, AEI performed the following preliminary field activities:

- AEI obtained soil boring permits from the Alameda County Public Works Agency, copies of which are included in Appendix A.
- The site-specific Health and Safety Plan (HASP) was updated for this scope of work, as needed.
- ACEH was notified of the field schedule.
- Underground Service Alert was notified of the proposed subsurface drilling activities.

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

3.2 Utility Clearance and Sewer Survey

The public underground utility locating service Underground Service Alert of Northern/Central California and Nevada was notified to identify public utilities in the work area. Each subsurface investigation location was cleared for utilities by a private utility locator. On March 1, 2016, accessible drains and sewer lines in the interior of the Lucasey Manufacturing Building were observed and snaked using an FV-10 transmitter attached to a fiberglass push rod. These lines were then traced on the surface using a 512-hertz receiver. The approximate locations of the sewer lines and drain lines identified are shown on Figure 2. In addition, historical surface trench drain locations were identified by Mr. Ed O'Neil, President of Lucasey Manufacturing. Although the drains had been removed and filled, the location of these historic trench drains was visible due to the trenching, backfilling, and resurfacing done to remove the drains when they were decommissioned. According to Mr O'Neil, these trench drains were historically associated with the on-site cannery. Bulk perishables were historically washed on-site prior to canning and the runoff was collected along these trench drains which emptied into the sanitary sewer.

3.3 Subsurface Investigation

On February 29 and March 1, 2016, a total of twelve (12) semi-permanent soil vapor probes were advanced and installed and seven (7) soil borings were advanced to groundwater. The locations are shown on Figure 2. AEI contracted Environmental Control Associates, Inc, a State of California-licensed drilling company to advance each of the soil borings and soil vapor probes. Each soil boring was advanced using 2-inch outer diameter rods with acetate sample liners in four foot sections using direct push technology. After each interval, the core was retrieved, core barrel disassembled, and the sample liner was removed and transferred to the on-site AEI field staff. Down-hole equipment was decontaminated after each boring using Alconox® followed by clean water as part of the triple rinse decontamination system. Soil borings advanced as part of this investigation were logged in general accordance with the Unified Soil Classification System, with the exception of the soil borings from twinned locations, which were not logged.

The location and purpose of the semi-permanent soil vapor probes and soil borings completed as part of this investigation are as follows:

- Eleven (11) of the twelve (12) semi-permanent soil vapor probes were intended to twin historic soil vapor sampling locations (ASV-16, ASV-17, ASV-19, ASV-20, ASV-21, ASV-22, ASV-23, ASV-26, ASV-27, ASV-28, and ASV-29). These semi-permanent soil vapor probes are intended to provide data to confirm the extents of the lateral PCE plume and support the data driven isolation of the subsurface PCE vapor plume. These soil vapor locations are also intended to provide additional soil vapor such as methane data.
- ASV-42 is located south of Building 3 and is intended to fill a data gap in PCE soil vapor data identified by the ADEH.
- SB-25, SB-26, and SB-27 are located within the historic center of the TPH-mo plume and are intended to fill a data gap in PCE groundwater and soil data.
- SB-28 is located adjacent to the southern corner of Building 3 and is intended to fill a data gap in PCE groundwater and soil data.
- SB-29 is located near SB-10 which has the historic maximum PCE groundwater concentration and is intended to fill a data gap in PCE groundwater and soil data.

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

- SB-30 is located within the PCE soil vapor plume near the historic trench drain sump and is intended to help assess if the historic trench drains represent a potential pathway for the migration of PCE to the subsurface.
- SB-31 is located adjacent to ASV-23 outside the PCE soil vapor plume and is intended to provide groundwater PCE data up-gradient of the benzene and PCE soil vapor plumes.

3.3.1 Soil Sampling

A total of 45 soil samples were collected. For the five exterior soil borings (SB-25, SB-26, SB-27, SB-28, and SB-29), soil samples were collected at two-foot intervals using five-gram disposable En Core© samplers. For the two interior soil borings (SB-30 and SB-31), one En Core© sample was collected from each 4-foot interval. Once collected, En Core© samples were capped, sealed in a protective bag, and placed in an ice-chilled cooler. Additional composite samples were collected in 4-oz wide mouth glass jars from each of the En Core© sample locations for field screening purposes. The presence of VOCs in each of these composite samples was screened using a photo ionization detector (PID). Boring logs presenting the USCS soil description, PID screening results, and other notable features are provided in Appendix B.

Soil samples collected were transported under chain-of-custody protocol to State of California-certified laboratory analysis. Two soil samples from each soil boring were selected for analysis based on the results of the PID screening and the professional judgement of the signatory. Each selected soil sample was analyzed for chlorinated volatile organic compounds (cVOCs) by using US EPA Testing Method 8260B.

Following completion of sample collection and removal of tooling, the borings were backfilled with neat cement grout and completed at the surface with concrete to match the surrounding conditions.

3.3.2 Groundwater Investigation

A total of seven (7) groundwater grab samples were collected from soil borings SB-25 through SB-31 on March 1, 2016. A low density non-aqueous phase was observed above the groundwater in soil borings SB-25 through SB-29. Each soil boring was converted to a temporary monitoring well by installing a 1-inch diameter PVC well with a 5-foot screened interval. The annular space within the bottom 1-foot of the screened interval was backfilled with sand. Each temporary monitoring well was partially developed by purging groundwater using a peristaltic pump until the groundwater was visually clear of sediments. After partial development, groundwater samples were collected using a peristaltic pump. In order to minimize volatilization, the flow rate of the peristaltic pump did not exceed 500 milliliters per minute during purging or sampling. Collected groundwater samples were containerized in laboratory supplied, appropriately preserved, bottle ware that was sealed, labeled, and placed in an ice-chilled cooler pending transport to the laboratory.

Groundwater samples collected were transported under chain-of-custody protocol to State of California-certified laboratory analysis. Each groundwater sample was analyzed for cVOCs using US EPA Testing Method 8260B.

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

Following completion of sample collection and removal of tooling, the borings were backfilled with neat cement grout and completed at the surface with concrete to match the surrounding conditions.

3.3.2 Soil Vapor Sampling

A total of twelve (12) semi-permanent soil vapor probes were installed at the Site between February 29 and March 1, 2016 in general accordance with the procedures outlined in the joint California Environmental Protection Agency, Department of Toxic Substances Control, Los Angeles Regional Water Quality Control Board, and the San Francisco Regional Water Quality Control Board July 2015 *Active Soil Gas Investigation Advisory* (the Advisory). Vapor probes were advanced to a depth of approximately five and a half feet bgs and the probe tip was installed at a depth of five-feet bgs. A one-foot sand pack was placed from five and a half to four and a half feet bgs followed by approximately six-inches of dry granular bentonite. The remaining annular space was sealed via the emplacement hydrated bentonite, placed in six-inch lifts to the sub-slab gravel base just beneath the concrete foundation. The vapor probes were finished by placing a 4-inch diameter traffic rated well box placed with a neat-cement grout. Vapor probes were constructed using ¼ inch diameter Teflon™ tubing tipped with a screen-lined point terminating within the probe box and sealed with a plug valve.

On March 3, 2016, soil vapor sampling was performed in general accordance with the Advisory on March 3, 2016. Prior to sampling, each semi-permanent soil vapor probes were allowed to equilibrate for at least 48 after installation was complete. Prior to sampling, a shut-in test was conducted to test the integrity of the sample collection apparatus and a minimum of three (3) well volumes was purged from each vapor probe. A leak check was performed by introducing and maintaining isopropyl alcohol and 1,1-difluoroethane vapors in the ambient air around the sample apparatus for the duration of the sample collection. Samples were collected using a laboratory-supplied regulator set at 150 milliliters per minute, using 1-liter, laboratory supplied, evacuated canisters. Each canister was individually checked, tested and certified by the laboratory for air tightness and proper vacuum prior to shipping. A vacuum gauge was used to measure and record the initial summa canister vacuum pressure. Once sampling was completed, each summa canister was sealed with an approximate remaining vacuum of five inches of mercury. The vacuum canister sample was sealed with a gas tight cap and appropriately labeled.

Soil vapor samples collected were transported under chain-of-custody protocol to State of California-certified laboratory analysis. Each soil vapor sample was analyzed for benzene, toluene, ethylbenzene, and xylene (collectively "BTEX compounds"), cVOCs, and leak check compounds using US EPA Testing Method TO-15 and methane (CH₄) and Oxygen (O₂) by ASTM D 1946-90. Although Nitrogen (N₂) analysis was initially requested, upon receipt of the soil vapor samples by the laboratory the sample canisters were pressurized using N₂ gas instead of Helium gas. As a result, N₂ gas analysis was not available.

4. SELECTION OF COMPARISON VALUES

To assess whether the concentrations of chemicals of potential concern (CPOC) identified in soil vapor beneath the Site pose a significant potential risk to a hypothetical future resident at the Site, AEI selected a set of Tier II environmental screening levels. These Tier II ESLs were selected based on the conceptual site model (CSM) as outlined in the RMP and in accordance with the California Environmental Protection Agency San Francisco Bay Regional Water Quality Control

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

Board Interim Final Environmental Screening Levels (ESLs) dated February 2016. The exposure pathways considered as part of the development of these Tier II ESLs are summarized from the RMP in Table A below:

Table A - Summary of Exposure Pathways

Media	Direct Exposure	Ecological Aquatic Habitats	Vapor Intrusion	Gross Contamination	Nuisance	Leaching
Groundwater	No	No	Yes	No	No	---
Soil Vapor	No	---	Yes	No	No	---
Soil	Yes	---	---	No	No	Yes

--- : Pathway not applicable

The primary COPCs are BTEX compounds and cVOCs, specifically PCE, trichloroethylene (TCE), cis and trans 1,2-dichloroethene (DCE), and vinyl chloride.

To assess whether the COPC concentrations observed in samples collected as part of this assessment pose a potential unacceptable health risk to the indoor air, AEI compared the maximum detected concentrations of CPOCs against their respective Tier II ESLs under a residential use scenario. In addition, soil vapor samples were compared to a conservative vapor barrier screening level (VBSL) which was derived from the indoor air Tier I ESL under the residential use scenario using the manufacture provided attenuation factor for Liquid Boot of 0.0002 (VBSL). In addition to the CPOCs previously discussed, analysis of soil vapor samples for free oxygen and methane was performed. These gases were requested to determine if soil vapor conditions were conducive to aerobic or anaerobic metabolic conditions and to determine if methanogenic digestion of contaminants was occurring at the Site. For the purpose of this investigation, soil conditions are considered aerobic if the presence of free oxygen is greater than 1% and anaerobic if less than or equal to 1%. Methanogenesis is considered to be occurring if the presence of methane exceeds 1% (Civil Engineering Reference Manual, 10th Edition).

5. ANALYTICAL RESULTS

Tables 1 through 3 presents a summary of the concentration of COPC concentrations present in samples collected as part of this and historical investigation in soil, groundwater, and soil vapor respectively. Figures 3 and 4 present the reported soil vapor and groundwater concentrations of PCE and benzene respectively. Copies of the laboratory analytical reports are included as Appendix C.

5.1 Soil Sample Analytical Results

A total of fourteen (14) soil samples, two from each of the seven soil boings, SB-25 through SB-31, were collected and analyzed for cVOCs. No cVOCs were detected at or above the laboratory method reporting limit.

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

5.2 Groundwater Sample Analytical Results

AEI collected grab groundwater samples from seven (7) soil borings (SB-25 through SB-31), and the results can be summarized as follows:

- Three of the seven groundwater samples collected and analyzed yielded PCE at concentrations of 10 µg/L (SB-29), 3.7 µg/L (SB-30), and 0.81 µg/L (SB-31).
- Cis-1,2 DCE was detected in one groundwater sample, SB-28 (0.89 µg/L).

No other analytes were present above their respective reporting limits. The grab groundwater samples collected from SB-26 contained organic content in sufficient quantities to limit the signal to noise ratio of the chosen analytical method. In accordance with industry standard practices, a dilution factor of 10 was applied and the sample was re-analyzed. No analytes were present above their respective reporting limits, however, the reporting limits for cVOCs exceeded their respective Tier II ESLs.

5.3 Soil Vapor Sample Analytical Results

A total of 12 soil vapor samples were collected, the results can be summarized as follows:

- PCE was observed in eleven (11) of the twelve (12) soil vapor samples collected and analyzed, detected at a maximum concentration of 760 µg/m³.
- Benzene was observed in eleven (11) of the twelve (12) soil vapor samples collected at a maximum concentration of 280 µg/m³, in soil vapor sample ASV-22.
- The magnitude of ethylbenzene, toluene, and xylenes detections in each sample was generally reflective of the magnitude of benzene present in each sample with the maximum ethylbenzene, toluene, and xylenes detection being reported in ASV-22 and the minimum being reported in ASV-17.
- Methane was present at or above the reporting limit in three (3) of twelve (12) soil vapor samples collected as part of this investigation with a maximum concentration of 4.8 µL/L in ASV-19.
- Oxygen content in soil vapor samples collected as part of this investigation generally ranged from 12-15% O₂ with the exception of ASV-22 which was 9.4%.

No other analytes were present at quantities sufficient to warrant their inclusion as a chemical of potential concern.

5.4 Quality Assurance / Quality Control

Quality Assurance / Quality Control (QA/QC) measures were performed during the sample collection and chemical analysis processes. The ultimate objective of these QA/QC measures is to ensure that the data are of adequate quality for their intended use. During soil vapor sample collection, isopropyl alcohol (IPA) and 1,1-difluoroethene (DFE) were concurrently used as a leak-check compounds. IPA was present above the laboratory reporting limit in one (1) sample (ASV-16) and DFE was present above the laboratory reporting limit in six (6) samples (ASV-16, ASV-17, ASV-19, ASV-26, ASV-27, and ASV-42). Neither IPA nor DFE was present in any of the samples at levels which would be indicative of a significant leak (>5%). Based on the available historical data and the professional opinion of the preparers of this report, the presence of leak check compounds in samples are representative of minor leaks which are insufficient to compromise the integrity of the soil vapor data collected as part of this assessment.

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

6. CONCLUSIONS

The purpose of this investigation was to address data gaps in historical groundwater PCE data, identify and locate a primary or secondary source of PCE groundwater and soil vapor, identify soil microbial metabolic conditions, and confirm the lateral extent of the soil vapor PCE plume. Data collected as part of this investigation is intended to supplement historical data to determine if the proposed engineering controls and data driven separation of work and live spaces are appropriate for the protection of human health for a residential use scenario.

Based on the results of this investigation AEI has made the following observations:

- Each of the soil samples collected and analyzed did not yield cVOCs at or above their respective laboratory method detection limits. Therefore, a significant source of cVOCs, primarily PCE, was not identified in soil.
- The dissolved PCE concentrations in groundwater collected to date indicate that the historic leaking underground storage tank (LUST) case is likely not the primary source of PCE contamination at the Site. The additional groundwater samples collected and analyzed indicate that PCE is present in groundwater beneath the Site at levels that exceed the groundwater to indoor air ESL for residential use scenarios in sandy water bearing units greater than 10 feet bgs. However, the distribution of dissolved PCE in groundwater samples collected to date exhibit an anisotropic and discontinuous distribution. The magnitude and distribution of PCE in groundwater suggests the presence of a low-level regional groundwater PCE plume. Since soil samples collected and analyzed did not yield PCE, the PCE identified in groundwater is likely the primary source of the PCE observed in soil vapor beneath the Site.
- No potential primary sources of PCE contamination were identified as part of the sewer survey or subsurface investigation completed as part of this assessment.
- PCE concentrations observed in soil vapor are generally consistent with previous sampling events, with a maximum concentration observed of 760 ug/m³.
- Benzene concentrations observed in soil vapor were observed at concentrations much higher than previous detections at the Site. This could be due to temporal variability or changes in sampling techniques.
- The PCE and benzene concentrations both exceed their respective Tier II ESLs, suggesting that a vapor intrusion mitigation system is likely necessary to protect indoor air quality for further residential users at the Site.
- The oxygen concentrations observed suggest that, although the concentration is depressed, there remains sufficient free oxygen for aerobic degradation of petroleum hydrocarbons.
- Methane was detected in four samples at very low concentrations, suggesting that methane does not pose a significant issue at the Site.
- Although nitrogen data was unavailable due to a laboratory error, the oxygen and methane results do not suggest that there is significant flux to displace nitrogen.

Report on Additional Soil, Groundwater, and Soil Vapor Investigations

Lucasey Manufacturing Site
2744 East Eleventh Street, Oakland, California

The proposed vapor intrusion mitigation system proposed in the RMP would be protective of indoor air within the building. Therefore, AEI recommends designing and installing the vapor intrusion mitigation system as proposed in the RMP.

7. REFERENCES

The regulatory record for this Site can be found on the State of California GeoTracker Website at http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0600133151.

California Department of Toxic Substances Control (DTSC). 2015. *Advisory – Active Soil Gas Investigation*. July.

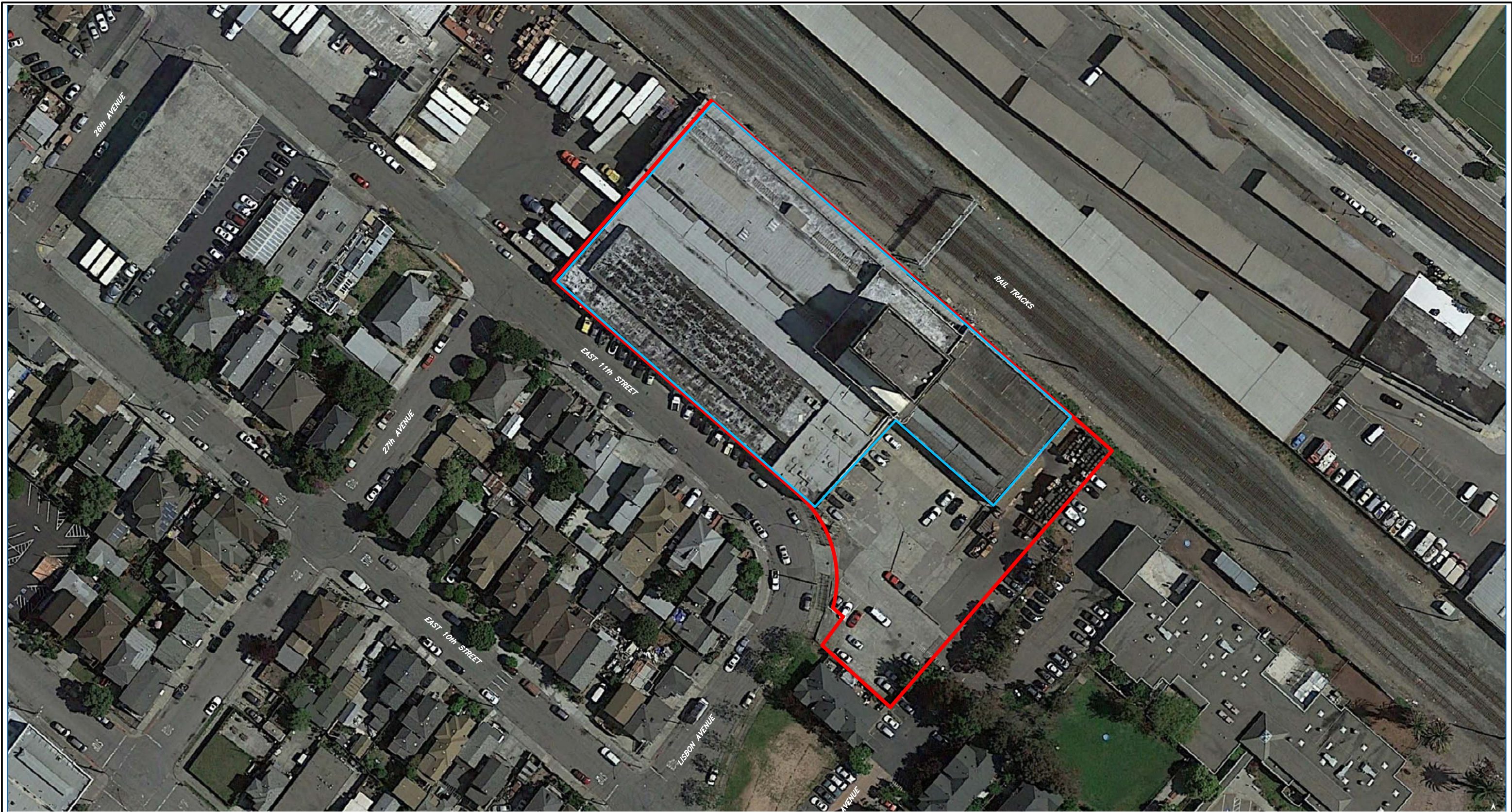
http://www.dtsc.ca.gov/SiteCleanup/upload/VI_ActiveSoilGasAdvisory_FINAL_043012.pdf

California Regional Water Quality Control Board, San Francisco Bay Region. 2013. *User's Guide: Derivation and Application of Environmental Screening Levels – Interim Final*. December.



http://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.shtml

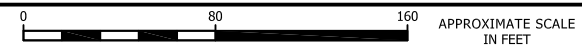
Lindeburg, Machael R. *Civil Engineering Reference Manual, 10th Edition*. Belmont, CA

FIGURES



LEGEND

-  Building - 2744 East 11th Street
-  Approximate Site Boundary



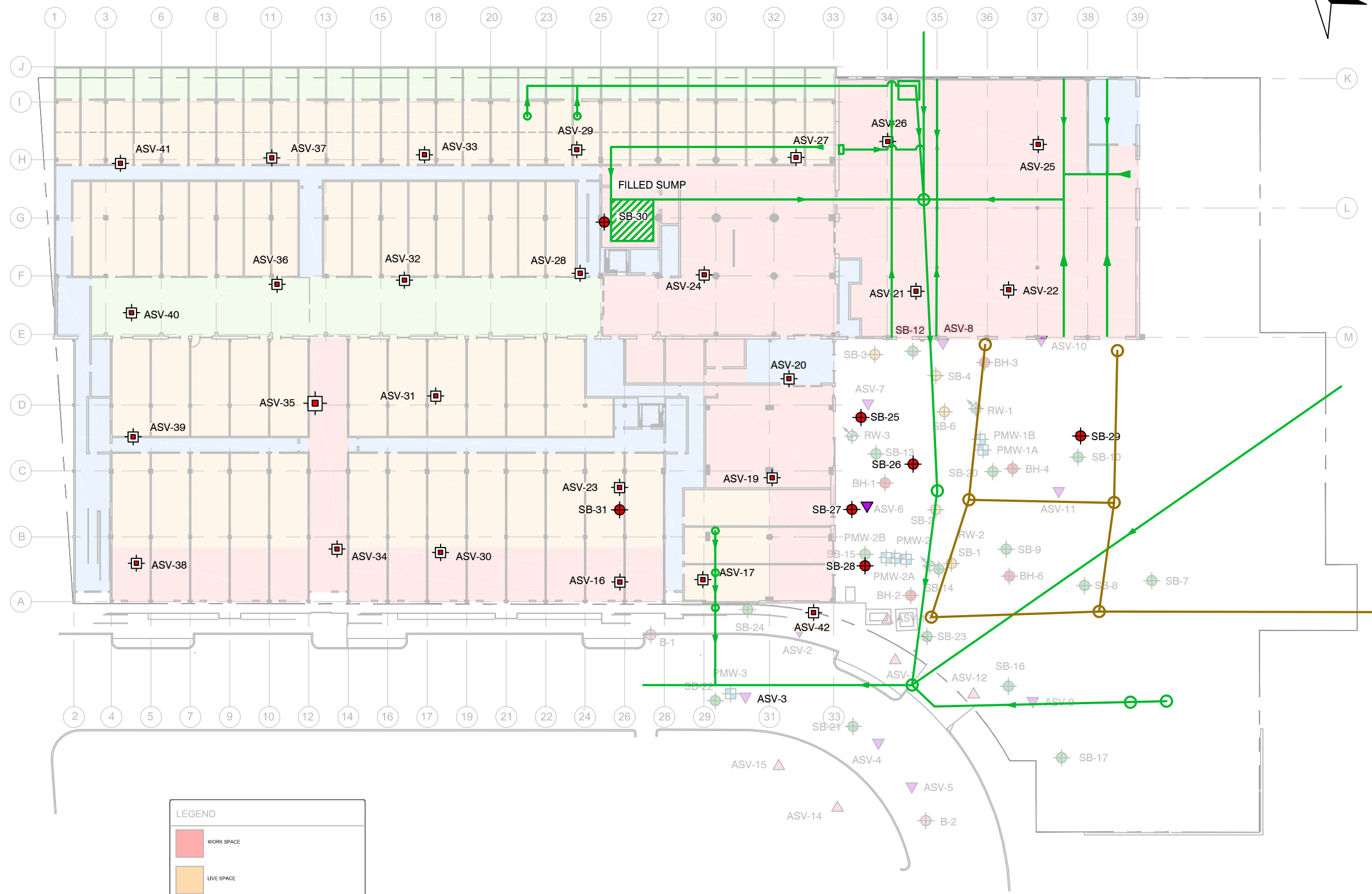
AEI Consultants
San Jose, California

SITE VICINITY MAP

2744 East 11th Street
Oakland, California

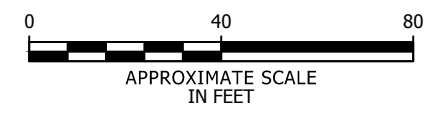
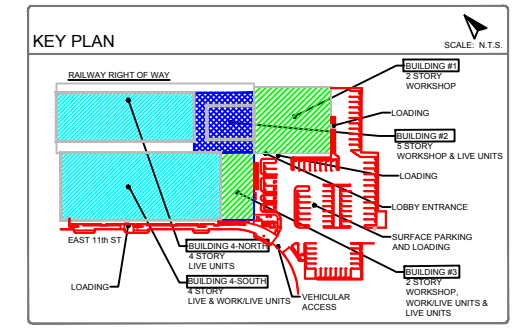
FIGURE 1
Project No. 345989

C:\Users\J.Sanders\MECX-L570490\Desktop\Lucassey_CAD\20160301\F2_Site_Map_03-28-2016 - 03/25/2016



- ### LEGEND
- ASV-24 Soil Vapor Sample Location (AEI 11/2015)
 - ASV-18 Not Completed Soil Vapor Sample Location (AEI 11/2015)
 - RW-3 Product Recovery Well (Clearwater)
 - PMW-3 Product Monitoring Well (ERM)
 - SB-24 Soil Boring (Clearwater)
 - SB-6 Soil Boring (Terra Firma)
 - SB-14 Soil Boring (AEI)
 - B-2 Soil Boring (ERM 2010)
 - ASV-11 Soil Vapor Sample Location (ERM, 2009)
 - ASV-15 Soil Vapor Sample Location (ERM, 2010)
 - 100 PCE Vapor Concentration ($\mu\text{g}/\text{m}^3$)
 - PCE Vapor Plume in Excess of Tier 1 ESL
 - 10 (2014) PCE Groundwater Concentration ($\mu\text{g}/\text{m}^3$) and Sample Collection Year
 - Sanitary Sewer and Manhole Locations (Arrow Indicates Flow Direction)
 - Storm Drain and Cleanout Locations

- ### LEGEND
- WORK SPACE
 - LIVE SPACE
 - CIRCULATION, MISC. SPACE
 - OPEN SPACE



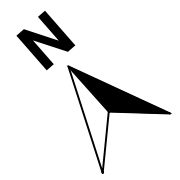
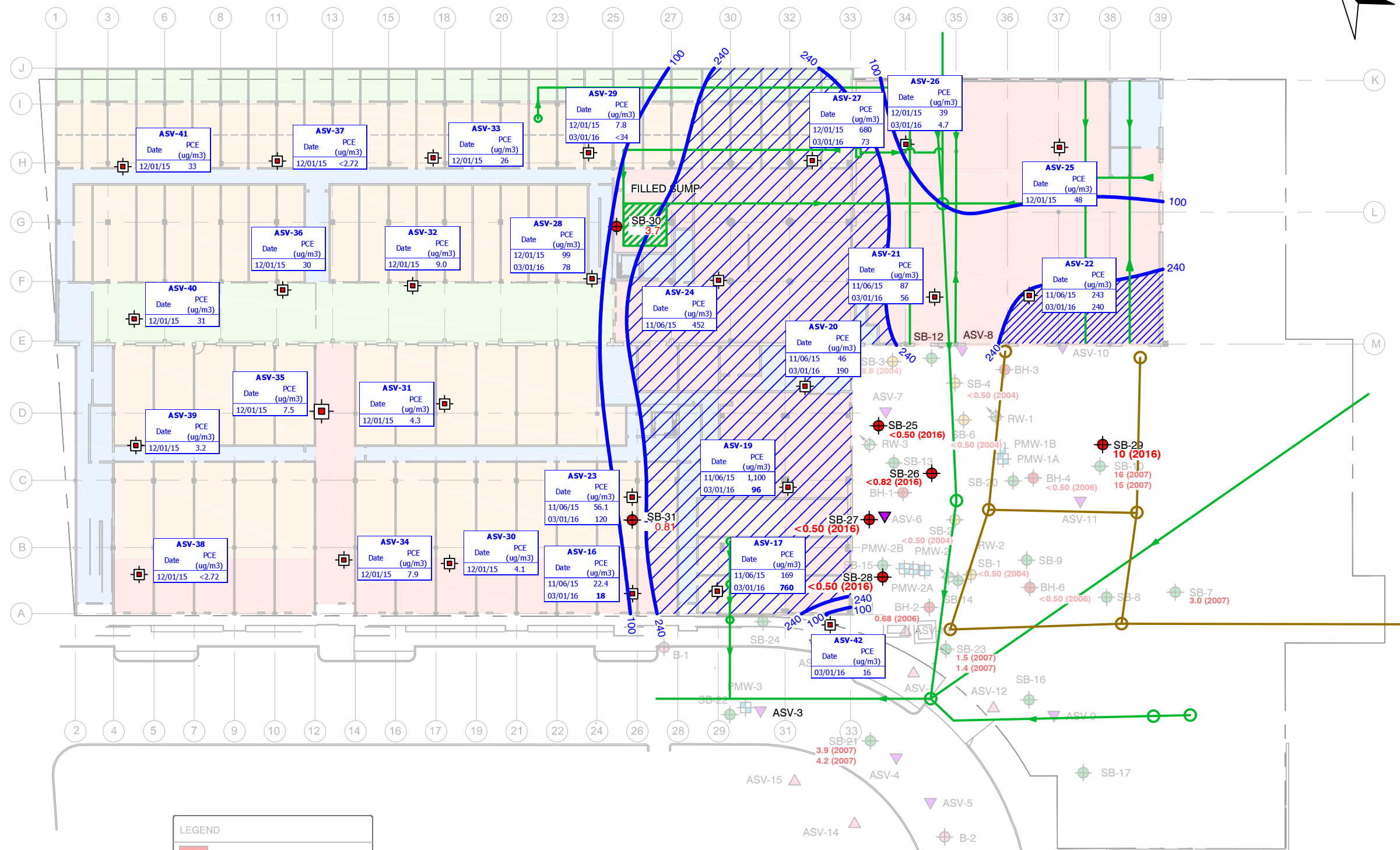
AEI Consultants
 2500 Camino Diablo
 Walnut Creek, California

SITE MAP

2744 East 11th Street
 Oakland, California

FIGURE 02
 Project No. 345989

C:\Users\Sanders.MECX\1570490\Desktop\Lucasey_CAD\20160301\CV00x_PCE in SV\3-1-2016 - 03/25/2016

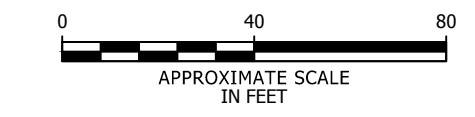
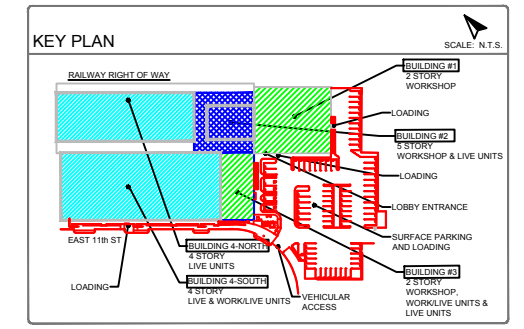


LEGEND

- ASV-24 Soil Vapor Sample Location (AEI 11/2015)
- ASV-18 Not Completed Soil Vapor Sample Location (AEI 11/2015)
- RW-3 Product Recovery Well (Clearwater)
- PMW-3 Product Monitoring Well (ERM)
- SB-24 Soil Boring (Clearwater)
- SB-6 Soil Boring (Terra Firma)
- SB-14 Soil Boring (AEI)
- B-2 Soil Boring (ERM 2010)
- ASV-11 Soil Vapor Sample Location (ERM, 2009)
- ASV-15 Soil Vapor Sample Location (ERM, 2010)
- 100 PCE Vapor Concentration (ug/m³)
- PCE Vapor Plume in Excess of Tier 1 ESL
- 10 (2014) PCE Groundwater Concentration (ug/m³) and Sample Collection Year
- Sanitary Sewer and Manhole Locations (Arrow Indicates Flow Direction)
- Storm Drain and Cleanout Locations

LEGEND

- WORK SPACE
- LIVE SPACE
- CIRCULATION, MISC. SPACE
- OPEN SPACE

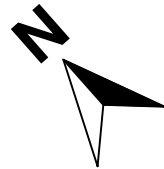
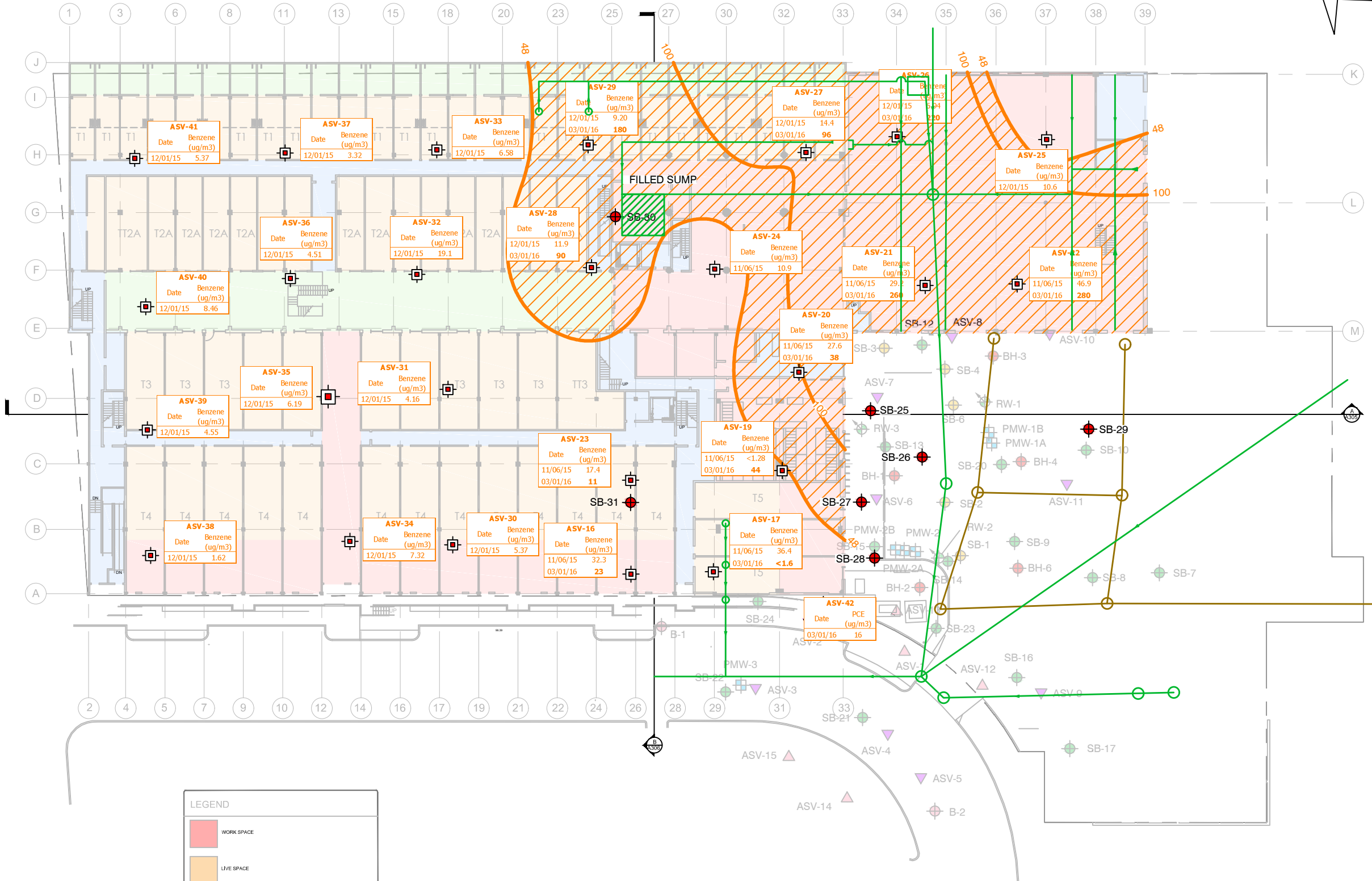


AEI Consultants
 2500 Camino Diablo
 Walnut Creek, California

PCE IN SOIL VAPOR AND GROUNDWATER

2744 East 11th Street
 Oakland, California

FIGURE 03
 Project No. 345989

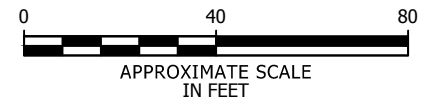
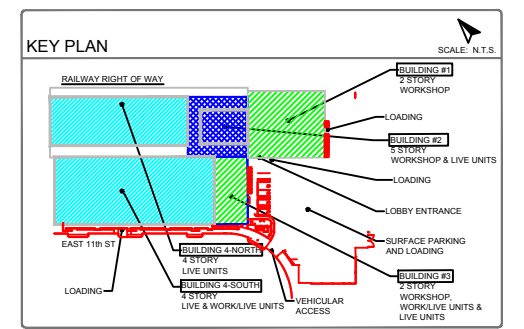


LEGEND

	WORK SPACE
	LIVE SPACE
	CIRCULATION, MISC. SPACE
	OPEN SPACE

LEGEND

- ASV-24 Soil Vapor Sample Location (AEI 11/2015)
- ASV-18 Not Completed Soil Vapor Sample Location (AEI 11/2015)
- RW-3 Product Recovery Well (Clearwater)
- PMW-3 Product Monitoring Well (ERM)
- SB-24 Soil Boring (Clearwater)
- SB-6 Soil Boring (Terra Firma)
- SB-14 Soil Boring (AEI)
- B-2 Soil Boring (ERM 2010)
- ASV-11 Soil Vapor Sample Location (ERM, 2009)
- ASV-15 Soil Vapor Sample Location (ERM, 2010)
- 48 Benzene Concentration $\mu\text{g}/\text{m}^3$
- Benzene Vapor Plume in Excess of Tier 1 ESL
- Sanitary Sewer and Manhole Locations (Arrow Indicates Flow Direction)
- Storm Drain and Cleanout Locations



AEI Consultants
 2500 Camino Diablo
 Walnut Creek, California

BENZENE IN SOIL VAPOR

2744 East 11th Street
 Oakland, California

FIGURE 4
 Project No. 345989

TABLES

TABLE 1
Summary of Soil Analytical Data
 Lucasey Manufacturing Site
 2744 East 11th Street, Oakland, California

Location ID	Date	Location (APN)	Depth (feet bgs)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylenes, (mg/kg)	MTBE (mg/kg)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	PCE (mg/kg)	TCE (mg/kg)	cis-1,2-DCE (mg/kg)
Comparison Value, Residential				0.044	1.4	2.9	2.3	0.023	770	570	---	0.42	0.46	0.19
Comparison Value, Construction Worker				26	510	4,200	2,500	2,400	2,800	900	31,000	34	23	1,100
B-1	03/04/10	off-site	4.5	<0.005	<0.005	<0.005	<0.010	--	<0.1	<9.5	<19	--	--	--
B-1	03/04/10	off-site	9.5	<0.048	<0.048	<0.048	<0.098	--	<0.098	<9.9	<20	--	--	--
B-1	03/04/10	off-site	15.5	<0.005	<0.005	<0.005	<0.099	--	<0.099	<10	<20	--	--	--
B-1	03/04/10	off-site	19.5	<0.005	<0.005	<0.005	<0.010	--	<0.1	<19	<38	--	--	--
B-2	03/04/10	off-site	4.5	<0.005	<0.005	<0.005	<0.099	--	<0.099	<10	<20	--	--	--
B-2	03/04/10	off-site	9.5	<0.005	<0.005	<0.005	<0.099	--	<0.099	<9.9	<20	--	--	--
B-2	03/04/10	off-site	15.5	<0.0049	<0.0049	<0.0049	<0.0098	--	<0.098	<9.9	<20	--	--	--
B-2	03/04/10	off-site	20	<0.005	<0.005	<0.005	<0.099	--	<0.099	<10	<20	--	--	--
BH-1	07/09/05	19-93-13	12	<0.005	<0.005	<0.005	<0.005	<0.05	<1	22	83	--	--	--
BH-1	07/09/05	19-93-13	16	<0.005	<0.005	<0.005	<0.005	<0.05	4.8	48	46	--	--	--
BH-2	07/09/05	19-93-13	12	<0.5	<0.5	<0.5	<0.5	<5	700	8,900	7,500	--	--	--
BH-3	07/09/05	19-93-13	7.5	<0.005	<0.005	<0.005	<0.005	<0.05	4.7	50	79	--	--	--
BH-4	07/09/05	19-93-13	12	<0.02	<0.2	<0.02	0.23	2	89	2,800	3,000	--	--	--
BH-6	07/09/05	19-93-13	12	<0.005	<0.005	<0.005	<0.005	<0.05	<1	41	53	--	--	--
BH-6	07/09/05	19-93-13	16	<0.05	<0.05	<0.05	<0.05	<0.5	73	1,800	1,700	--	--	--
SB-07	01/11/07	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	<5.0	--
SB-07	01/11/07	19-93-13	17.5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	<5.0	--
SB-07	01/11/07	19-93-13	23	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	<5.0	--
SB-08	01/10/09	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-08	01/10/07	19-93-13	15	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-08	01/10/07	19-93-13	23.5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-08	01/10/07	19-93-13	26.5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-09	01/09/07	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-09	01/09/07	19-93-13	10	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-09	01/09/07	19-93-13	11.5	--	--	--	--	--	VP	--	--	--	--	--
SB-09	01/22/07	19-93-13	16	<0.005	<0.005	<0.005	<0.005	<0.005	<1	140	93	--	--	--
SB-09	01/09/07	19-93-13	18	<0.005	<0.005	<0.005	<0.005	<0.005	<1	18	<50	--	--	--
SB-09	01/09/07	19-93-13	22	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-10	01/10/07	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-10	01/10/07	19-93-13	12	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-10	01/10/07	19-93-13	23	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-11	01/09/07	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-11	01/10/07	19-93-13	12	<0.005	<0.005	<0.005	<0.005	<0.005	11	3,300	2,500	--	--	--
SB-11	01/09/07	19-93-13	22	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-11	01/09/07	19-93-13	23.5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--

TABLE 1
Summary of Soil Analytical Data
 Lucasey Manufacturing Site
 2744 East 11th Street, Oakland, California

Location ID	Date	Location (APN)	Depth (feet bgs)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylenes, (mg/kg)	MTBE (mg/kg)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	PCE (mg/kg)	TCE (mg/kg)	cis-1,2-DCE (mg/kg)
Comparison Value, Residential				0.044	1.4	2.9	2.3	0.023	770	570	---	0.42	0.46	0.19
Comparison Value, Construction Worker				26	510	4,200	2,500	2,400	2,800	900	31,000	34	23	1,100
SB-12	01/08/07	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-12	01/08/07	19-93-13	11	<0.25	<0.25	<0.25	<0.25	<0.25	<1	370	85	--	--	--
SB-12	01/19/07	19-93-13	14	<0.005	<0.005	<0.005	<0.005	<0.005	<1	470	270	--	--	--
SB-12	01/08/07	19-93-13	26	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-12	01/08/07	19-93-13	34	<0.005	<0.005	<0.005	<0.005	<0.005	1.4	170	<50	--	--	--
SB-13	01/08/07	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-13	01/08/07	19-93-13	10	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-13	01/08/07	19-93-13	14	--	--	--	--	--	VP	--	--	--	--	--
SB-13	01/08/07	19-93-13	18	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-13	01/22/07	19-93-13	26	<0.005	<0.005	<0.005	<0.005	<0.005	<1	170	110	--	--	--
SB-13	01/08/07	19-93-13	30	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-14	01/12/07	19-93-13	10.5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-14	01/12/07	19-93-13	11.5	--	--	--	--	--	VP	--	--	--	--	--
SB-14	01/12/07	19-93-13	13.5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-14	01/12/07	19-93-13	17	<0.005	<0.005	<0.005	<0.005	<0.005	14	3,800	2,500	--	--	--
SB-14	01/12/07	19-93-13	23	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-15	01/09/07	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-15	01/19/07	19-93-13	15	<0.005	<0.005	<0.005	<0.005	<0.005	21	5,300	3,400	--	--	--
SB-15	01/22/07	19-93-13	19.5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	36	20	--	--	--
SB-15	01/19/07	19-93-13	23	<0.005	<0.005	<0.005	<0.005	<0.005	18	1,800	1,100	--	--	--
SB-15	01/09/07	19-93-13	27	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-21	01/11/07	off-site	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-21	01/11/07	off-site	10	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-21	01/19/07	off-site	11	<0.005	<0.005	<0.005	<0.005	<0.005	1.0	770	800	--	--	--
SB-21	01/19/07	off-site	13.5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	520	630	--	--	--
SB-21	01/11/07	off-site	22	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-22	01/12/07	off-site	10	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-22	01/24/07	off-site	11.5	<0.005	<0.005	<0.005	<0.005	<0.005	4.3	2,600	3,800	--	--	--
SB-22	01/12/07	off-site	15	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-23	01/11/07	19-93-13	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	<5.0	--
SB-23	01/11/07	19-93-13	15	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	<5.0	--
SB-23	01/11/07	19-93-13	23	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	<5.0	--
SB-23	01/11/07	19-93-13	29	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-24	01/12/07	off-site	5	<0.005	<0.005	<0.005	<0.005	<0.005	<1	23	<50	--	--	--
SB-24	01/19/07	off-site	11.5	<0.005	<0.005	<0.005	<0.005	<0.005	29	2,300	3,600	--	--	--
SB-24	01/12/07	off-site	18	<0.005	<0.005	<0.005	<0.005	<0.005	<1	<10	<50	--	--	--
SB-25	03/01/16	19-93-13	1.5	--	--	--	--	--	--	--	--	<0.0085	<0.0085	<0.0085

TABLE 1
Summary of Soil Analytical Data
 Lucasey Manufacturing Site
 2744 East 11th Street, Oakland, California

Location ID	Date	Location (APN)	Depth (feet bgs)	Benzene (mg/kg)	Ethylbenzene (mg/kg)	Toluene (mg/kg)	Xylenes, (mg/kg)	MTBE (mg/kg)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	PCE (mg/kg)	TCE (mg/kg)	cis-1,2-DCE (mg/kg)
Comparison Value, Residential				0.044	1.4	2.9	2.3	0.023	770	570	---	0.42	0.46	0.19
Comparison Value, Construction Worker				26	510	4,200	2,500	2,400	2,800	900	31,000	34	23	1,100
SB-25	03/01/16	19-93-13	5	--	--	--	--	--	--	--	--	<0.0085	<0.0085	<0.0085
SB-26	03/01/16	19-93-13	5	--	--	--	--	--	--	--	--	<0.0085	<0.0085	<0.0085
SB-26	03/01/16	19-93-13	9	--	--	--	--	--	--	--	--	<0.0085	<0.0085	<0.0085
SB-27	03/01/16	19-93-13	3	--	--	--	--	--	--	--	--	<0.0087	<0.0087	<0.0087
SB-27	03/01/16	19-93-13	7	--	--	--	--	--	--	--	--	<0.0082	<0.0082	<0.0082
SB-28	03/01/16	19-93-13	1	--	--	--	--	--	--	--	--	<0.0080	<0.0080	<0.0080
SB-28	03/01/16	19-93-13	5	--	--	--	--	--	--	--	--	<0.0089	<0.0089	<0.0089
SB-29	03/01/16	19-93-13	1	--	--	--	--	--	--	--	--	<0.0088	<0.0088	<0.0088
SB-29	03/01/16	19-93-13	5	--	--	--	--	--	--	--	--	<0.0083	<0.0083	<0.0083
SB-30	03/01/16	19-93-13	2	--	--	--	--	--	--	--	--	<0.0079	<0.0079	<0.0079
SB-30	03/01/16	19-93-13	11	--	--	--	--	--	--	--	--	<0.0092	<0.0092	<0.0092
SB-31	03/01/16	19-93-13	2	--	--	--	--	--	--	--	--	<0.0093	<0.0093	<0.0093
SB-31	03/01/16	19-93-13	11	--	--	--	--	--	--	--	--	<0.0082	<0.0082	<0.0082

Notes:

- mg/kg milligrams per kilogram
- < Analyte not present at or above the method detection limit
- bgs below ground surface
- TPH-g Total Petroleum Hydrocarbons as gasoline
- TPH-d Total Petroleum Hydrocarbons as diesel
- TPH-mo Total Petroleum Hydrocarbons as motor oil
- VP Consultant reported sampled contained visible product, therefore not run for analysis at laboratory
- Bold** Result exceeds applicable Comparison Value

Comparison Values

- Residential Tier II Screening Level for Residential Land Use, Shallow Soil Exposure Scenario excluding direct contact exposure route (Tables S-2, S-3, and S-4) from the DTSC Environmental Screening Levels (February 2016).
- Construction Worker Final Risk Based Screening Level for Construction Worker direct exposure pathway for Shallow and Deep Soil Exposure Scenario (Table S-1) from the DTSC Environmental Screening Levels (February 2016).

TABLE 2
Summary of Groundwater Analytical Data
 Lucasey Manufacturing Site
 2744 East 11th Street, Oakland, California

Location ID	Date	Location APN	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	MTBE (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Comparison Value, Vapor Intrusion			1.4	16	4,300	1,600	1,500	---	---	---	3.7	7	140
SB-1W	08/31/04	19-93-13	<50	<50	<50	<50	<50	650	520,000	520,000	<0.50	<0.50	<0.50
SB-2W	08/31/04	19-93-13	<50	<50	<50	<50	<50	2,200	110,000	89,000	<0.50	<0.50	0.71
SB-3W	08/31/04	19-93-13	<50	<50	<50	<50	<50	<50	<50	<250	8.8	<0.50	<0.50
SB-4W	08/31/04	19-93-13	<50	<50	<50	<50	<50	3,800	560,000	410,000	<0.50	<0.50	<0.50
SB-6W	08/31/04	19-93-13	<50	<50	<50	<50	<50	130	8,700	6,900	<0.50	<0.50	<0.50
BH-2	07/09/06	19-93-13	<50	<50	<50	<50	<50	310	580,000	510,000	0.68	<0.50	0.57
BH-4	07/09/06	19-93-13	<50	<50	<50	<50	<50	<50	160,000	150,000	<0.50	<0.50	1.4
BH-6	07/09/06	19-93-13	<50	<50	<50	<50	<50	<50	670	2,800	<0.50	<0.50	<0.50
SB-7	01/11/07	19-93-13	<50	<50	<50	<50	<50	<25	<50	<500	3.0	6.6	--
SB-8	01/10/07	19-93-13	<50	<50	<50	<50	<50	<25	<50	<500	--	--	--
SB-8-D	01/10/07	19-93-13	<50	<50	<50	<50	<50	<25	390	<500	--	--	--
SB-9	No Data Available	19-93-13											
SB-10-W16	01/10/07	19-93-13	<50	<50	<50	<50	<50	<25	<50	<500	16	<0.50	--
SB-10-W23	01/10/07	19-93-13	<50	<50	<50	<50	<50	<25	340	<500	15	<0.50	--
SB-11	No Data Available	19-93-13											
SB-12	No Data Available	19-93-13											
SB-13-W	01/22/07	19-93-13	<0.5	<0.5	<0.5	0.84	<0.5	560	5,800,000	3,000,000	--	--	--
SB-13-W2	01/22/07	19-93-13	<0.5	<0.5	<0.5	<0.5	0.56	150	140,000	70,000	--	--	--
SB-14-W	01/12/07	19-93-13	<50	<50	<50	<50	<50	<25	11,000	4,500	--	--	--
SB-15	No Data Available	19-93-13											
SB-21-W17	01/11/07	19-93-13	<50	<50	<50	<50	<50	<25	730	<500	3.9	0.5	--
SB-21-W26	01/11/07	19-93-13	<50	<50	0.54	1.7	1.2	<25	1,500	580	4.2	<0.50	--
SB-23-W	01/11/07	19-93-13	<50	<50	<50	<50	<50	<25	2,800	150	<0.5	<0.50	--
SB-23-W23	01/11/07	19-93-13	<50	<50	<50	<50	<50	<25	2,800	150	1.5	<0.50	--
SB-23-W23-D	01/11/07	19-93-13	<50	<50	<50	<50	<50	<25	630	<500	1.4	<0.50	--

TABLE 2
Summary of Groundwater Analytical Data

Lucasey Manufacturing Site
2744 East 11th Street, Oakland, California

Location ID	Date	Location APN	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Xylenes, Total (µg/L)	MTBE (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)
Comparison Value, Vapor Intrusion			1.4	16	4,300	1,600	1,500	---	---	---	3.7	7	140
SB-24	01/23/07	19-93-13	<0.50	<0.50	<0.50	<0.50	<0.50	1,400	430,000	210,000	--	--	--
B-1	03/04/10	19-93-13	<1	<1	<1	<2	--	<50	<97	<190	--	--	--
B-2	03/04/10	19-93-13	<1	<1	<1	<2	--	<50	<98	<200	--	--	--
RW-1	06/08/09	19-93-13	--	--	--	--	--	--	58/<50 ¹	--	--	--	--
RW-2	06/08/09	19-93-13	--	--	--	--	--	--	140/<50 ¹	--	--	--	--
RW-2 DUP	06/08/09	19-93-13	--	--	--	--	--	--	<50 ¹	--	--	--	--
RW-3	06/08/09	19-93-13	--	--	--	--	--	--	210/88 ¹	--	--	--	--
SB-25	03/01/16	19-93-13	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
SB-26	03/01/16	19-93-13	--	--	--	--	--	--	--	--	<0.820 *	<0.60 *	<0.50 *
SB-27	03/01/16	19-93-13	--	--	--	--	--	--	--	--	<0.50	<0.50	<0.50
SB-28	03/01/16	19-93-13	--	--	--	--	--	--	--	--	<0.50	<0.50	0.89
SB-29	03/01/16	19-93-13	--	--	--	--	--	--	--	--	10	<0.50	<0.50
SB-30	03/01/16	19-93-13	--	--	--	--	--	--	--	--	3.7	<0.50	<0.50
SB-31	03/01/16	19-93-13	--	--	--	--	--	--	--	--	0.81	<0.50	<0.50

Notes:

- µg/L micrograms per liter
- < Analyte not present at or above the method detection limit
- bgs below ground surface
- TPH-g Total Petroleum Hydrocarbons as gasoline
- TPH-d Total Petroleum Hydrocarbons as diesel
- TPH-mo Total Petroleum Hydrocarbons as motor oil
- MTBE Volatile Organic Compounds
- PCE Tetrachloroethene
- cis-1,2-DCE cis-1,2-Dichloroethene
- Values¹ First value without silica gel cleanup, second value with silica gel cleanup
- Bold** Result exceeds applicable Comparison Value
- * Dilution factor of 10 due to presence of high organics, sample assessed to the method detection limit instead of the laboratory reporting limit.

Comparison Value

Vapor Intrusion Groundwater Vapor Intrusion Human Health Risk Levels (Table W-3) from the DTSC Environmental Screening Levels (Feb 2016).

TABLE 3
Summary of Soil Vapor Analytical Data
 Lucasey Manufacturing Site
 2744 East 11th Street, Oakland, California

Sample Location	Date	Location APN	Depth (feet bgs)	Benzene (µg/m ³)	Ethylbenzene (µg/m ³)	Toluene (µg/m ³)	Xylenes, (µg/m ³)	TPH-g (µg/m ³)	TPH-d (µg/m ³)	PCE (µg/m ³)	TCE (µg/m ³)	cis-1,2-DCE (µg/m ³)	Methane (µL/L)	Oxygen (µL/L)
Tier II Residential ESL				48	560	160,000	52,000	300,000	68,000	240	340	4,200	NA	NA
Vapor Barrier Screening Level (VBSL)				480	5,600	1,600,00	520,000	3,000,000	680,000	24,000	34,000	41,000	NA	NA
Abmient Air	05/10/10	unknown	5 ^A	<36	<50	<43	<50	<940	<5,000	--	--	--	--	--
Ambient Air	06/18/09	unknown	5 ^A	4.00	<4.7	7.00	<4.7	--	--	--	--	--	--	--
ASV-1	06/17/09	off-site	5 ^A	150	130	2100	327	--	--	--	--	--	--	--
ASV-1 duplicate	06/17/09	off-site	5 ^A	170	140	2200	362	--	--	--	--	--	--	--
ASV-2	06/17/09	off-site	5 ^A	110	250	2900	990	--	--	--	--	--	--	--
ASV-3	06/17/09	off-site	5 ^A	740	1900	20,000	2,500	--	--	--	--	--	--	--
ASV-4	06/17/09	off-site	5 ^A	570	2600	22,000	12,900	--	--	--	--	--	--	--
ASV-5	06/17/09	off-site	5 ^A	33.0	62.0	690	299	--	--	--	--	--	--	--
ASV-6	06/18/09	19-93-13	5 ^A	14.0	44.0	470	235	--	--	--	--	--	--	--
ASV-7	06/18/09	19-93-13	5 ^A	21.0	70.0	700	380	--	--	--	--	--	--	--
ASV-7 duplicate	06/18/09	19-93-13	5 ^A	22.0	71.0	720	378	--	--	--	--	--	--	--
ASV-8	06/18/09	19-93-13	5 ^A	18.0	54.0	690	292	--	--	--	--	--	--	--
ASV-9	06/18/09	19-93-13	5 ^A	12.0	55.0	500	300	--	--	--	--	--	--	--
ASV-10	06/18/09	19-93-13	5 ^A	12.0	40.0	370	214	--	--	--	--	--	--	--
ASV-11	06/18/09	19-93-13	5 ^A	15.0	49.0	480	265	--	--	--	--	--	--	--
ASV-12	05/10/10	off-site	5 ^A	<36	<49	39J	37J	<920	<5,000	--	--	--	--	--
ASV-12 duplicate	05/10/10	off-site	5 ^A	<36	<49	38J	39J	<920	<5,000	--	--	--	--	--
ASV-13	05/10/10	off-site	5 ^A	<36	<49	<42	<49	<920	<5,000	--	--	--	--	--
ASV-14	05/24/10	off-site	5 ^A	<42	<58	<50	<58	<1,100	<5,000	--	--	--	--	--
ASV-14 duplicate	05/24/10	off-site	5 ^A	<42	<57	<42	<57	<1,100	<5,000	--	--	--	--	--
ASV-15	05/24/10	off-site	5 ^A	<42	<58	<50	<58	<1,100	<5,000	--	--	--	--	--
ASV-16	11/06/15	19-93-13	sub-slab	3.52	5.48	15.1	28.04	--	--	14.2	2.43	<1.59	--	--
ASV-16	11/06/15	19-93-13	5.0	32.3	21.8	167	103.8	--	--	22.4	<2.14	<1.59	--	--
ASV-16	03/01/16	19-93-13	5.0	23	100	430	410	---	---	18	<2.8	<2.0	<2.0	150,000
ASV-17	11/06/15	19-93-13	sub-slab	<1.28	<1.73	<1.51	<3.47	--	--	236	<2.14	<1.59	--	--
ASV-17	11/06/15	19-93-13	5.0	36.4	18.4	181	19.9	--	--	169	<2.14	<1.59	--	--
ASV-17	03/01/16	19-93-13	5.0	<1.6	4.4	16	17	---	---	760	<2.8	<2.0	<2.0	120,000

TABLE 3
Summary of Soil Vapor Analytical Data
 Lucasey Manufacturing Site
 2744 East 11th Street, Oakland, California

Sample Location	Date	Location APN	Depth (feet bgs)	Benzene (µg/m ³)	Ethylbenzene (µg/m ³)	Toluene (µg/m ³)	Xylenes, (µg/m ³)	TPH-g (µg/m ³)	TPH-d (µg/m ³)	PCE (µg/m ³)	TCE (µg/m ³)	cis-1,2-DCE (µg/m ³)	Methane (µL/L)	Oxygen (µL/L)
Tier II Residential ESL				48	560	160,000	52,000	300,000	68,000	240	340	4,200	NA	NA
Vapor Barrier Screening Level (VBSL)				480	5,600	1,600,00	520,000	3,000,000	680,000	24,000	34,000	41,000	NA	NA
ASV-19	11/06/15	19-93-13	sub-slab	3.22	2.96	17.1	18.6	--	--	561	<2.14	<1.59	--	--
ASV-19	11/06/15	19-93-13	5.0	<1.28	<1.73	4.74	<3.47	--	--	1100	<2.14	<1.59	--	--
ASV-19	03/01/16	19-93-13	5.0	44	160	590	710	---	---	96	<5.0	<3.6	4.8	130,000
ASV-20	11/06/15	19-93-13	sub-slab	3.85	<1.73	8.88	3.49	--	--	188	<2.14	<1.59	--	--
ASV-20	11/06/15	19-93-13	5.0	27.6	11.8	118	55.5	--	--	45.7	<2.14	<1.59	--	--
ASV-20	03/01/16	19-93-13	5.0	38	96	360	430	---	---	190	<2.8	<2.0	2.6	130,000
ASV-21	11/06/15	19-93-13	sub-slab	3.89	3.31	17.1	13.52	--	--	26.9	<2.14	<1.59	--	--
ASV-21	11/06/15	19-93-13	5.0	29.2	12.4	134	55.6	--	--	87	<2.14	<1.59	--	--
ASV-21	03/01/16	19-93-13	5.0	260	250	2,700	1,000	---	---	56	<2.8	<2.0	<2.0	130,000
ASV-22	11/06/15	19-93-13	sub-slab	<1.28	2.07	34.4	11.55	--	--	227	<2.14	<1.59	--	--
ASV-22	11/06/15	19-93-13	5.0	46.9	14.3	156	59.3	--	--	243	<2.14	<1.59	--	--
ASV-22	03/01/16	19-93-13	5.0	280	280	2,900	1,100	---	---	240	<2.8	<2.0	<2.0	94,000
ASV-23	11/06/15	19-93-13	sub-slab	<1.28	<1.73	4.27	<3.47	--	--	340	<2.14	<1.59	--	--
ASV-23	11/06/15	19-93-13	5.0	17.4	7.48	75.4	36.9	--	--	56.1	<2.14	<1.59	--	--
ASV-23	03/01/16	19-93-13	5.0	11	95	280	420	---	---	120	<2.8	<2.0	2.1	130,000
ASV-24	11/06/15	19-93-13	sub-slab	<1.28	<1.73	4.63	1.77	--	--	63.4	<2.14	<1.59	--	--
ASV-24	11/06/15	19-93-13	5.0	10.9	4.48	22.1	36.9	--	--	452	<2.14	<1.59	--	--
ASV-25	12/16/15	19-93-13	5.0	10.6	6.29	183	26.8	--	--	47.9	<2.14	<1.59	--	--
ASV-26	12/16/15	19-93-13	5.0	6.94	5.07	181	23.2	--	--	38.8	<2.14	<1.59	--	--
ASV-26	03/01/16	19-93-13	5.0	220	210	2,400	850	---	---	4.7	<2.8	<2.0	<2.0	140,000
ASV-27	12/16/15	19-93-13	5.0	14.4	8.77	240	41.0	--	--	680	<2.14	<1.59	--	--
ASV-27	01/08/16	19-93-13	5.0	65.2	36.6	332	204	--	--	35.8	<8.57	<6.34	--	--
ASV-27	03/01/16	19-93-13	5.0	96	110	1,100	460	---	---	73	<2.8	<2.0	<2.0	130,000
ASV-28	12/17/15	19-93-13	5.0	11.9	20.5	146	125	--	--	98.9	<2.14	<1.59	--	--
ASV-28	03/01/16	19-93-13	5.0	90	100	720	360	---	---	78	<2.8	<2.0	<2.0	120,000
ASV-29	12/17/15	19-93-13	5.0	9.20	11.1	193	49.2	--	--	7.77	<2.14	<1.59	--	--
ASV-29	03/01/16	19-93-13	5.0	180	230	2,100	990	---	---	15 J	<4.7 J	<2.8 J	<2.0	130,000
ASV-30	12/17/15	19-93-13	5.0	5.37	4.51	65.4	18.9	--	--	4.05	<2.14	<1.59	--	--
ASV-31	12/17/15	19-93-13	5.0	4.16	3.83	79.6	16.7	--	--	4.30	<2.14	<1.59	--	--
ASV-32	12/17/15	19-93-13	5.0	19.1	6.48	88.9	25.3	--	--	8.98	3.26	<1.59	--	--
ASV-33	12/16/15	19-93-13	5.0	6.58	13.9	181	75.0	--	--	26.3	<2.14	<1.59	--	--

TABLE 3
Summary of Soil Vapor Analytical Data
 Lucasey Manufacturing Site
 2744 East 11th Street, Oakland, California

Sample Location	Date	Location APN	Depth (feet bgs)	Benzene (µg/m ³)	Ethylbenzene (µg/m ³)	Toluene (µg/m ³)	Xylenes, (µg/m ³)	TPH-g (µg/m ³)	TPH-d (µg/m ³)	PCE (µg/m ³)	TCE (µg/m ³)	cis-1,2-DCE (µg/m ³)	Methane (µL/L)	Oxygen (µL/L)
Tier II Residential ESL				48	560	160,000	52,000	300,000	68,000	240	340	4,200	NA	NA
Vapor Barrier Screening Level (VBSL)				480	5,600	1,600,00	520,000	3,000,000	680,000	24,000	34,000	41,000	NA	NA
ASV-34	12/16/15	19-93-13	5.0	7.32	32.4	88.0	167	--	--	7.91	<2.14	<1.59	--	--
ASV-35	12/16/15	19-93-13	5.0	6.19	7.48	70.1	33.7	--	--	7.54	<2.14	<1.59	--	--
ASV-36	12/16/15	19-93-13	5.0	4.51	12.9	144	62.2	--	--	30.3	<2.14	<1.59	--	--
ASV-36	01/08/16	19-93-13	5.0	28.6	22.2	193	115			5.93	<2.14	<1.59	---	---
ASV-37	12/16/15	19-93-13	5.0	3.32	2.51	72.1	10.3	--	--	<2.72	<2.14	<1.59	--	--
ASV-38	12/16/15	19-93-13	5.0	1.62	<1.73	13.6	3.89	--	--	<2.72	<2.14	<1.59	--	--
ASV-38	01/08/16	19-93-13	5.0	17.9	10.0	119	53.9			12.9	<2.14	<1.59	---	---
ASV-39	12/16/15	19-93-13	5.0	4.55	3.21	57.8	13.8	--	--	3.22	<2.14	<1.59	--	--
ASV-40	12/16/15	19-93-13	5.0	8.46	8.54	192	39.8	--	--	30.7	<2.14	<1.59	--	--
ASV-41	12/18/15	19-93-13	5.0	5.37	6.05	180	26.2	--	--	33.0	<2.14	<1.59	--	--
ASV-42	03/01/16	19-93-13	5.0	4.9	20	61	96	---	---	16	<2.8	<2.0	<2.0	120,000

Notes:

- µg/m³ micrograms per cubic meter
- < Analyte not present at or above the method detection limit
- bgs below ground surface
- PCE Tetrachloroethylene
- TCE Trichloroethylene
- DCE Dichloroethylene
- Bold** Result exceeds most stringent comparison value
- 5.0^h Depth inferred from context.

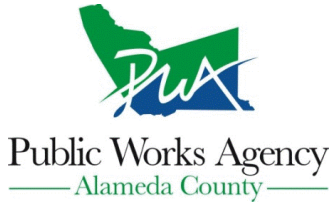
Comparison Values:

Tier II Residential ESL Tier II Subslab/Soil Gas Vapor Intrusion Screening level with HHR and nuisance odor (Tables SG-1 and SG-2) DTSC Environmental Screening Levels (Feb 2016).
 Vapor Barrier Screening Level (VBSL) Calculated using the manufacture provided attenuation factor for Liquid Boot (0.0002) from the residential indoor air goals (Tables IA-1 and IA-2) DTSC Environmental Screening Levels (Feb 2016)

APPENDIX A

PERMITS

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 02/25/2016 By jamesy

Permit Numbers: W2016-0132 to W2016-0133
Permits Valid from 03/07/2016 to 03/07/2016

Application Id:	1456184705017	City of Project Site: Oakland
Site Location:	2744 East 11th Street	
Project Start Date:	03/07/2016	Completion Date: 03/07/2016
Assigned Inspector:	Contact Lindsay Furuyama at (925) 956-2311 or Lfuruyama@groundzonees.com	
Applicant:	AEI Consultants - Jonathan Sanders	Phone: 925-746-6038
	2500 Camino Diablo, Walnut Creek, CA 94597	
Property Owner:	JP Trias	Phone: --
	2744 East 11th Street, Oakland, CA 94601	
Client:	Paul DiCarlo	Phone: --
	160 Franklin Street, Suite 300, Oakland, CA 94607	
Contact:	Jonathan Sanders	Phone: 281-250-5856 Cell: --

Receipt Number: WR2016-0084	Total Due:	\$530.00
Payer Name : Jonathan Sanders	Total Amount Paid:	\$530.00
	Paid By: VISA	PAID IN FULL

Works Requesting Permits:

Well Construction-Vapor monitoring well-Vapor monitoring well - 12 Wells
 Driller: ENVIRONMENTAL CONTROL ASSOCIATES - Lic #: 695970 - Method: DP **Work Total: \$265.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2016-0132	02/25/2016	06/05/2016	ASV-16	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-17	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-19	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-20	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-21	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-22	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-23	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-26	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-27	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-28	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-29	2.00 in.	0.25 in.	0.50 ft	5.50 ft
W2016-0132	02/25/2016	06/05/2016	ASV-42	2.00 in.	0.25 in.	0.50 ft	5.50 ft

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County

Alameda County Public Works Agency - Water Resources Well Permit

Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate state reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days, including permit number and site map.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

5. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

6. No changes in construction procedures or well type shall change, as described on this permit application. This permit may be voided if it contains incorrect information.

7. Applicant shall submit the copies of the approved encroachment permit to this office within 10 days.

8. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

9. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

10. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

11. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

12. Vapor monitoring wells above water level constructed with tubing maybe be backfilled with pancake-batter

Alameda County Public Works Agency - Water Resources Well Permit

consistency bentonite. Minimum surface seal thickness is two inches of cement grout around well box.

Vapor monitoring wells above water level constructed with pvc pipe shall have a minimum seal depth (Neat Cement Seal) of 2 feet below ground surface (BGS). Minimum surface seal thickness is two inches of cement grout around well box. All other conditions for monitoring well construction shall apply.

Borehole(s) for Investigation-Contamination Study - 5 Boreholes

Driller: ENVIRONMENTAL CONTROL ASSOCIATES - Lic #: 695970 - Method: DP

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2016-0133	02/25/2016	06/05/2016	5	4.00 in.	25.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.
7. Electronic Reporting Regulations (Chapter 30, Division 3 of Title 23 & Division 3 of Title 27, CCR) require electronic submission of any report or data required by a regulatory agency from a cleanup site. Submission dates are set by a Regional Water Board or by a regulatory agency. Once a report/data is successfully uploaded, as required, you have met the reporting requirement (i.e. the compliance measure for electronic submittals is the actual upload itself). The upload date should be on or prior to the regulatory due date.

Alameda County Public Works Agency - Water Resources Well Permit

8. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

9. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B
BORING LOGS



AEI Consultants

BORING NUMBER ASV-42

PAGE 1 OF 1

CLIENT RTS Investments

PROJECT NUMBER 345989

DATE STARTED 3/1/16 **COMPLETED** 3/1/16

DRILLING CONTRACTOR Environmental Control Associates, Inc.

DRILLING METHOD Direct Push

LOGGED BY J.Vida **CHECKED BY** _____

NOTES _____

PROJECT NAME Lucasey Manufacturing Corporation

PROJECT LOCATION 2744 East 11th Street, Oakland, CA

GROUND ELEVATION _____ **HOLE SIZE** 2.25 inches

GROUND WATER LEVELS:

AT TIME OF DRILLING ---

AT END OF DRILLING ---

AFTER DRILLING ---

AEI BORING - GINT STD US LAB.GDT - 3/7/16 08:58 - P:\COMPANYWIDE PROJECTS\345000 SERIES\345989 OAKLAND, CASMIFIELD NOTES\345989 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
				0.3	TOP SOIL/GRAVEL, dry, loose	
				5.0	SANDY SILT (ML), very dark brown (2/2 10YR), medium stiff, damp, trace gravel, mottling	

Bottom of borehole at 5.5 feet.



AEI Consultants

BORING NUMBER SB-25

PAGE 1 OF 1

CLIENT <u>RTS Investments</u>	PROJECT NAME <u>Lucasey Manufacturing Corporation</u>
PROJECT NUMBER <u>345989</u>	PROJECT LOCATION <u>2744 East 11th Street, Oakland, CA</u>
DATE STARTED <u>3/1/16</u> COMPLETED <u>3/1/16</u>	GROUND ELEVATION _____ HOLE SIZE <u>2.25 inches</u>
DRILLING CONTRACTOR <u>Environmental Control Associates, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Direct Push</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>J.Vida</u> CHECKED BY _____	AT END OF DRILLING <u>---</u>
NOTES _____	AFTER DRILLING <u>---</u>

AEI BORING - GINT STD US LAB.GDT - 3/7/16 08:58 - P:\COMPANYWIDE PROJECTS\345000 SERIES\345989 OAKLAND, CASMIFIELD NOTES\345989 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-25-1.5				0.5 CONCRETE	
	SB-25-3				1.0 GRAVEL (GW), brown, loose, dry, angular	
	SB-25-5		0.0		SILTY CLAY (CH), very dark brown (2/2 10YR), medium to high plasticity, moist, very stiff, mottling; gravel lense at 8 feet, odor at 12 feet	
	SB-25-7		0.0			
5	SB-25-9		0.0			
	SB-25-11		0.0			
	SB-25-13		0.0			
	SB-25-15		0.0		12.0 SANDY CLAY (CL), greenish black (2.5/1 GLEY 1), medium to high plasticity, saturated to wet, soft, odor; moist from 14 to 16 feet	
10			2.6			
15			18.9			
					16.0	

Bottom of borehole at 16.0 feet.



AEI Consultants

BORING NUMBER SB-26

PAGE 1 OF 1

CLIENT RTS Investments
PROJECT NUMBER 345989
DATE STARTED 3/1/16 **COMPLETED** 3/1/16
DRILLING CONTRACTOR Environmental Control Associates, Inc.
DRILLING METHOD Direct Push
LOGGED BY J.Vida **CHECKED BY** _____
NOTES _____

PROJECT NAME Lucasey Manufacturing Corporation
PROJECT LOCATION 2744 East 11th Street, Oakland, CA
GROUND ELEVATION _____ **HOLE SIZE** 2.25 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

AEI BORING - GINT STD US LAB.GDT - 3/7/16 08:58 - P:\COMPANYWIDE PROJECTS\345000 SERIES\345989 OAKLAND, CASMIFIELD NOTES\345989 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
				0.5	CONCRETE POOR RECOVERY	
				3.5		
				4.0	SILTY CLAY (CH), very dark brown (2/2 10YR), high plasticity, damp, trace gravel, poor recovery (<1 foot)	
5	SB-26-5		0.0		SILTY CLAY (CH), dark brown (3/3 10YR), medium to high plastic, damp, very stiff, mottling; greenish gray discoloration at 12 feet, saturated at 12 feet	
	SB-26-7		0.0			
	SB-26-9		0.0			
10	SB-26-11		0.0			
	SB-26-13		9.1			
15	SB-26-15		10.5		SANDY CLAY (CL), greenish black (2.5/1 GLEY 1), medium to high plasticity, moist, soft, odor, trace gravel	
				16.0		

Bottom of borehole at 16.0 feet.



CLIENT <u>RTS Investments</u>	PROJECT NAME <u>Lucasey Manufacturing Corporation</u>
PROJECT NUMBER <u>345989</u>	PROJECT LOCATION <u>2744 East 11th Street, Oakland, CA</u>
DATE STARTED <u>3/1/16</u> COMPLETED <u>3/1/16</u>	GROUND ELEVATION _____ HOLE SIZE <u>2.25 inches</u>
DRILLING CONTRACTOR <u>Environmental Control Associates, Inc.</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Direct Push</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>J.Vida</u> CHECKED BY _____	AT END OF DRILLING <u>---</u>
NOTES _____	AFTER DRILLING <u>---</u>

AEI BORING - GINT STD US LAB.GDT - 3/7/16 08:58 - P:\COMPANYWIDE PROJECTS\3450000 SERIES\345989 OAKLAND, CASMIFIELD NOTES\345989 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
					0.5 CONCRETE POOR RECOVERY	
					2.5	
	SB-27-3		0.0		SILTY CLAY (CH), very dark brown (2/2 10YR), medium to high plastic, moist, stiff, trace gravel; mottling at 8 feet; medium stiff and saturated at 12 feet	
5	SB-27-5		0.0			
	SB-27-7		0.0			
	SB-27-9		0.0			
10	SB-27-11		0.0			
	SB-27-13		39.4		12.0 SANDY CLAY (CL), greenish black (2.5/1 GLEY 1), medium to high plastic, moist, stiff, odor	
15	SB-27-15		7.9			
					16.0	

Bottom of borehole at 16.0 feet.



AEI Consultants

BORING NUMBER SB-28

PAGE 1 OF 1

CLIENT RTS Investments **PROJECT NAME** Lucasey Manufacturing Corporation
PROJECT NUMBER 345989 **PROJECT LOCATION** 2744 East 11th Street, Oakland, CA
DATE STARTED 3/1/16 **COMPLETED** 3/1/16 **GROUND ELEVATION** _____ **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Environmental Control Associates, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Direct Push **AT TIME OF DRILLING** 11.20 ft
LOGGED BY J.Vida **CHECKED BY** _____ **AT END OF DRILLING** ---
NOTES _____ **AFTER DRILLING** ---

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-28-1		0.0		0.5 CONCRETE	
	SB-28-3		0.0		CLAYEY SILT (ML), very dark brown (2/2 10YR), stiff, moist, mottling, trace gravel; moisture increases and color changes to brown from 8-9 feet	
5	SB-28-5		0.0			
	SB-28-7		0.0			
	SB-28-9		0.0		9.0 SILTY GRAVEL (GM), dark yellowish brown (3/4 10YR), medium dense, damp, angular gravel	
10	SB-28-11		0.0		10.0 SANDY CLAY (CL), medium plasticity, moist to saturated, medium stiff	
	SB-28-13		121.4		14.0	
15	SB-28-15		81.2		SILTY SAND (SM), medium dense, damp to moist, odor	
					16.0	

Bottom of borehole at 16.0 feet.

AEI BORING - GINT STD US LAB.GDT - 3/7/16 08:59 - P:\COMPANYWIDE PROJECTS\345000 SERIES\345989 OAKLAND, CASMIFIELD NOTES\345989 BORING LOGS.GPJ



AEI Consultants









BORING NUMBER SB-29

PAGE 1 OF 1

CLIENT RTS Investments
PROJECT NUMBER 345989
DATE STARTED 3/1/16 **COMPLETED** 3/1/16
DRILLING CONTRACTOR Environmental Control Associates, Inc.
DRILLING METHOD Direct Push
LOGGED BY J.Vida **CHECKED BY** _____
NOTES _____

PROJECT NAME Lucasey Manufacturing Corporation
PROJECT LOCATION 2744 East 11th Street, Oakland, CA
GROUND ELEVATION _____ **HOLE SIZE** 2.25 inches
GROUND WATER LEVELS:
AT TIME OF DRILLING ---
AT END OF DRILLING ---
AFTER DRILLING ---

AEI BORING - GINT STD US LAB.GDT - 3/7/16 08:59 - P:\COMPANYWIDE PROJECTS\345000 SERIES\345989 OAKLAND, CASMIFIELD NOTES\345989 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
	SB-29-1.5		0.3		0.5 CONCRETE	
	SB-29-3		0.1		SILTY CLAY (CL), very dark brown (2/2 10YR), medium plasticity, moist, stiff, mottling, trace gravel	
5	SB-29-5		0.0		8.0 SANDY CLAY (CL), dark brown (3/3 10YR), medium plasticity, moist, trace gravel	
	SB-29-7		0.0		12.0 SANDY CLAY (CL), dark brown (3/3 10YR), medium plastic, saturated to wet	
	SB-29-9		0.0		15.0 CLAYEY GRAVEL (GC), dark brown (3/3 10YR), saturated, loose, angular gravel	
10	SB-29-11		0.0			
	SB-29-13		0.0			
15	SB-29-15		0.0			

Bottom of borehole at 16.0 feet.



AEI Consultants

BORING NUMBER SB-30

PAGE 1 OF 1

CLIENT RTS Investments
 PROJECT NUMBER 345989
 DATE STARTED 3/1/16 COMPLETED 3/1/16
 DRILLING CONTRACTOR Environmental Control Associates, Inc.
 DRILLING METHOD Direct Push
 LOGGED BY J.Vida CHECKED BY _____
 NOTES _____

PROJECT NAME Lucasey Manufacturing Corporation
 PROJECT LOCATION 2744 East 11th Street, Oakland, CA
 GROUND ELEVATION _____ HOLE SIZE 2.25 inches
 GROUND WATER LEVELS:
 AT TIME OF DRILLING ---
 AT END OF DRILLING ---
 AFTER DRILLING ---

AEI BORING - GINT STD US LAB.GDT - 3/7/16 08:59 - P:\COMPANYWIDE PROJECTS\345000 SERIES\345989 OAKLAND, CASMIFIELD NOTES\345989 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
0.5					CONCRETE SLAB	
0.0	SB-30-2				SANDY SILT (ML), very dark brown (2/2 10YR), medium stiff, damp, trace gravel	
3.0					SANDY CLAY (CL), dark brown (3/3 10YR), medium plasticity, moist, medium stiff; gravel lense from 11-11.5 feet; saturated from 15-16 feet	
5.0						
6.0	SB-30-6					
10.0						
11.0	SB-30-11					
15.0						
16.0						

Bottom of borehole at 16.0 feet.



AEI Consultants

BORING NUMBER SB-31

PAGE 1 OF 1

CLIENT RTS Investments **PROJECT NAME** Lucasey Manufacturing Corporation
PROJECT NUMBER 345989 **PROJECT LOCATION** 2744 East 11th Street, Oakland, CA
DATE STARTED 3/1/16 **COMPLETED** 3/1/16 **GROUND ELEVATION** _____ **HOLE SIZE** 2.25 inches
DRILLING CONTRACTOR Environmental Control Associates, Inc. **GROUND WATER LEVELS:**
DRILLING METHOD Direct Push **AT TIME OF DRILLING** ---
LOGGED BY J.Vida **CHECKED BY** _____ **AT END OF DRILLING** ---
NOTES _____ **AFTER DRILLING** ---

AEI BORING - GINT STD US LAB.GDT - 3/7/16 08:59 - P:\COMPANYWIDE PROJECTS\345000 SERIES\345989 OAKLAND, CASMIFIELD NOTES\345989 BORING LOGS.GPJ

DEPTH (ft)	SAMPLE TYPE NUMBER	BLOW COUNTS	PID DATA (ppm)	GRAPHIC LOG	MATERIAL DESCRIPTION	COMPLETION
0						
0.5				0.5	CONCRETE SLAB	
0.0	SB-31-2		0.0		SANDY SILT (ML), very dark brown (2/2 10YR), medium stiff, moist, trace gravel, mottling	
5						
7.5	SB-31-7.5		0.0	8.0	SILTY CLAY (CL), very dark (3/3 10YR), medium plastic, moist, mottling, increased moisture with depth	
10						
12.5	SB-31-12.5		0.0			
15						

Bottom of borehole at 16.0 feet.

APPENDIX C
LABORATORY ANALYTICAL REPORTS



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1603185 **Amended:** 03/18/2016

Report Created for: AEI Consultants

2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jonathan Sanders

Project P.O.:

Project Name: 345989; Lucasey

Project Received: 03/03/2016

Analytical Report reviewed & approved for release on 03/10/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 345989; Lucasey
WorkOrder: 1603185

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.



Case Narrative

Client: AEI Consultants
Project: 345989; Lucasey

Work Order: 1603185
March 10, 2016

TO-15 ANALYSIS

All summa canisters are EVACUATED 5 days after the reporting of the results. Please call or email if a longer retention time is required.

In an effort to attain the lowest reporting limits possible for the majority of the TO-15 target list, high level compounds may be analyzed using EPA Method 8260B.

Polymer (Tedlar) bags are not recommended for TO15 samples. The disadvantages are listed in Appendix B of the DTSC Active Soil Gas Advisory of July 2015.



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/4/16-3/7/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-16	1603185-001A	SoilGas	03/03/2016 13:51	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.42	24.87	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 12:32
Oxygen	150,000	4000	1	03/04/2016 15:34

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-17	1603185-002A	SoilGas	03/03/2016 13:57	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.19	24.34	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 09:03
Oxygen	120,000	4000	1	03/04/2016 12:02

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-19	1603185-003A	SoilGas	03/03/2016 14:37	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
5.50	20.05	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	4.8	3.6	1	03/07/2016 09:24
Oxygen	130,000	7300	1	03/04/2016 12:23

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/4/16-3/7/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-20	1603185-004A	SoilGas	03/03/2016 14:54	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.38	22.68	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	2.6	2.0	1	03/07/2016 09:45
Oxygen	130,000	4000	1	03/04/2016 12:45

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-21	1603185-005A	SoilGas	03/03/2016 11:51	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.80	23.56	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 10:06
Oxygen	130,000	4000	1	03/04/2016 13:06

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-22	1603185-006A	SoilGas	03/03/2016 11:20	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.23	24.48	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 10:27
Oxygen	94,000	4000	1	03/04/2016 13:27

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/4/16-3/7/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-23	1603185-007A	SoilGas	03/03/2016 13:44	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.72	25.45	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	2.1	2.0	1	03/07/2016 10:48
Oxygen	130,000	4000	1	03/04/2016 13:48

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-26	1603185-008A	SoilGas	03/03/2016 11:42	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.00	23.94	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 11:09
Oxygen	140,000	4000	1	03/04/2016 14:09

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-27	1603185-009A	SoilGas	03/03/2016 12:02	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.43	24.84	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 11:29
Oxygen	130,000	4000	1	03/04/2016 14:30

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/4/16-3/7/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L

Light Gases

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-28	1603185-010A	SoilGas	03/03/2016 13:36	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.16	24.38	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 11:50
Oxygen	120,000	4000	1	03/04/2016 14:51

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-29	1603185-011A	SoilGas	03/03/2016 12:22	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.56	25.15	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 12:53
Oxygen	130,000	4000	1	03/04/2016 15:55

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-42	1603185-012A	SoilGas	03/03/2016 10:25	GC26	117655

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.00	23.96	MW

Analytes	Result	RL	DF	Date Analyzed
Methane	ND	2.0	1	03/07/2016 12:11
Oxygen	120,000	4000	1	03/04/2016 15:13



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-16	1603185-001A	SoilGas	03/03/2016 13:51	GC29	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.42	24.87	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	23	1.6	1	03/10/2016 15:05
Bromodichloromethane	ND	3.5	1	03/10/2016 15:05
Carbon Tetrachloride	5.4	3.2	1	03/10/2016 15:05
Chlorobenzene	ND	2.4	1	03/10/2016 15:05
Chloroethane	ND	1.3	1	03/10/2016 15:05
Chloroform	2.7	2.4	1	03/10/2016 15:05
Chloromethane	ND	1.0	1	03/10/2016 15:05
Dibromochloromethane	ND	4.4	1	03/10/2016 15:05
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 15:05
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 15:05
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 15:05
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 15:05
Dichlorodifluoromethane	ND	2.5	1	03/10/2016 15:05
1,1-Dichloroethane	ND	2.0	1	03/10/2016 15:05
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 15:05
1,1-Dichloroethene	ND	2.0	1	03/10/2016 15:05
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 15:05
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 15:05
1,2-Dichloropropane	ND	2.4	1	03/10/2016 15:05
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 15:05
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 15:05
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 15:05
Ethylbenzene	100	2.2	1	03/10/2016 15:05
Freon 113	ND	3.9	1	03/10/2016 15:05
Methylene chloride	22	8.8	1	03/10/2016 15:05
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 15:05
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 15:05
Tetrachloroethene	18	3.4	1	03/10/2016 15:05
Toluene	430	1.9	1	03/10/2016 15:05
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 15:05
1,1,1-Trichloroethane	ND	2.8	1	03/10/2016 15:05
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 15:05
Trichloroethene	ND	2.8	1	03/10/2016 15:05

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-16	1603185-001A	SoilGas	03/03/2016 13:51	GC29	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.42	24.87	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	4.2	2.8	1	03/10/2016 15:05
Vinyl Chloride	ND	1.3	1	03/10/2016 15:05
Xylenes, Total	410	6.6	1	03/10/2016 15:05
Surrogates	REC (%)	Limits		
1,2-DCA-d4	99	70-130		03/10/2016 15:05
Toluene-d8	104	70-130		03/10/2016 15:05
4-BFB	100	70-130		03/10/2016 15:05



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-17	1603185-002A	SoilGas	03/03/2016 13:57	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.19	24.34	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	ND	1.6	1	03/10/2016 03:17
Bromodichloromethane	ND	3.5	1	03/10/2016 03:17
Carbon Tetrachloride	ND	3.2	1	03/10/2016 03:17
Chlorobenzene	ND	2.4	1	03/10/2016 03:17
Chloroethane	ND	1.3	1	03/10/2016 03:17
Chloroform	ND	2.4	1	03/10/2016 03:17
Chloromethane	ND	1.0	1	03/10/2016 03:17
Dibromochloromethane	ND	4.4	1	03/10/2016 03:17
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 03:17
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 03:17
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 03:17
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 03:17
Dichlorodifluoromethane	15	2.5	1	03/10/2016 03:17
1,1-Dichloroethane	ND	2.0	1	03/10/2016 03:17
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 03:17
1,1-Dichloroethene	ND	2.0	1	03/10/2016 03:17
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 03:17
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 03:17
1,2-Dichloropropane	ND	2.4	1	03/10/2016 03:17
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 03:17
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 03:17
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 03:17
Ethylbenzene	4.4	2.2	1	03/10/2016 03:17
Freon 113	ND	3.9	1	03/10/2016 03:17
Methylene chloride	ND	8.8	1	03/10/2016 03:17
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 03:17
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 03:17
Tetrachloroethene	760	3.4	1	03/10/2016 03:17
Toluene	16	1.9	1	03/10/2016 03:17
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 03:17
1,1,1-Trichloroethane	3.0	2.8	1	03/10/2016 03:17
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 03:17
Trichloroethene	ND	2.8	1	03/10/2016 03:17

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-17	1603185-002A	SoilGas	03/03/2016 13:57	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.19	24.34	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	2.8	1	03/10/2016 03:17
Vinyl Chloride	ND	1.3	1	03/10/2016 03:17
Xylenes, Total	17	6.6	1	03/10/2016 03:17
Surrogates	REC (%)	Limits		
1,2-DCA-d4	92	70-130		03/10/2016 03:17
Toluene-d8	100	70-130		03/10/2016 03:17
4-BFB	99	70-130		03/10/2016 03:17

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-19	1603185-003A	SoilGas	03/03/2016 14:37	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
5.50	20.05	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	44	2.9	1	03/10/2016 03:57
Bromodichloromethane	ND	6.4	1	03/10/2016 03:57
Carbon Tetrachloride	ND	5.8	1	03/10/2016 03:57
Chlorobenzene	ND	4.3	1	03/10/2016 03:57
Chloroethane	ND	2.4	1	03/10/2016 03:57
Chloroform	ND	4.5	1	03/10/2016 03:57
Chloromethane	ND	1.9	1	03/10/2016 03:57
Dibromochloromethane	ND	7.9	1	03/10/2016 03:57
1,2-Dibromo-3-chloropropane	ND	0.22	1	03/10/2016 03:57
1,2-Dichlorobenzene	ND	5.6	1	03/10/2016 03:57
1,3-Dichlorobenzene	ND	5.6	1	03/10/2016 03:57
1,4-Dichlorobenzene	ND	5.6	1	03/10/2016 03:57
Dichlorodifluoromethane	ND	4.6	1	03/10/2016 03:57
1,1-Dichloroethane	ND	3.7	1	03/10/2016 03:57
1,2-Dichloroethane (1,2-DCA)	ND	3.7	1	03/10/2016 03:57
1,1-Dichloroethene	ND	3.6	1	03/10/2016 03:57
cis-1,2-Dichloroethene	ND	3.6	1	03/10/2016 03:57
trans-1,2-Dichloroethene	ND	3.6	1	03/10/2016 03:57
1,2-Dichloropropane	ND	4.3	1	03/10/2016 03:57
cis-1,3-Dichloropropene	ND	4.2	1	03/10/2016 03:57
trans-1,3-Dichloropropene	ND	4.2	1	03/10/2016 03:57
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	6.5	1	03/10/2016 03:57
Ethylbenzene	160	4.0	1	03/10/2016 03:57
Freon 113	ND	7.1	1	03/10/2016 03:57
Methylene chloride	ND	16	1	03/10/2016 03:57
1,1,1,2-Tetrachloroethane	ND	6.4	1	03/10/2016 03:57
1,1,2,2-Tetrachloroethane	ND	6.4	1	03/10/2016 03:57
Tetrachloroethene	96	6.3	1	03/10/2016 03:57
Toluene	590	3.5	1	03/10/2016 03:57
1,2,4-Trichlorobenzene	ND	6.8	1	03/10/2016 03:57
1,1,1-Trichloroethane	ND	5.0	1	03/10/2016 03:57
1,1,2-Trichloroethane	ND	5.0	1	03/10/2016 03:57
Trichloroethene	ND	5.0	1	03/10/2016 03:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-19	1603185-003A	SoilGas	03/03/2016 14:37	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
5.50	20.05	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	5.2	1	03/10/2016 03:57
Vinyl Chloride	ND	2.4	1	03/10/2016 03:57
Xylenes, Total	710	12	1	03/10/2016 03:57
Surrogates	REC (%)	Limits		
1,2-DCA-d4	84	70-130		03/10/2016 03:57
Toluene-d8	100	70-130		03/10/2016 03:57
4-BFB	99	70-130		03/10/2016 03:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-20	1603185-004A	SoilGas	03/03/2016 14:54	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.38	22.68	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	38	1.6	1	03/10/2016 04:37
Bromodichloromethane	ND	3.5	1	03/10/2016 04:37
Carbon Tetrachloride	ND	3.2	1	03/10/2016 04:37
Chlorobenzene	ND	2.4	1	03/10/2016 04:37
Chloroethane	ND	1.3	1	03/10/2016 04:37
Chloroform	ND	2.4	1	03/10/2016 04:37
Chloromethane	ND	1.0	1	03/10/2016 04:37
Dibromochloromethane	ND	4.4	1	03/10/2016 04:37
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 04:37
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 04:37
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 04:37
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 04:37
Dichlorodifluoromethane	15	2.5	1	03/10/2016 04:37
1,1-Dichloroethane	ND	2.0	1	03/10/2016 04:37
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 04:37
1,1-Dichloroethene	ND	2.0	1	03/10/2016 04:37
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 04:37
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 04:37
1,2-Dichloropropane	ND	2.4	1	03/10/2016 04:37
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 04:37
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 04:37
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 04:37
Ethylbenzene	96	2.2	1	03/10/2016 04:37
Freon 113	ND	3.9	1	03/10/2016 04:37
Methylene chloride	ND	8.8	1	03/10/2016 04:37
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 04:37
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 04:37
Tetrachloroethene	190	3.4	1	03/10/2016 04:37
Toluene	360	1.9	1	03/10/2016 04:37
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 04:37
1,1,1-Trichloroethane	ND	2.8	1	03/10/2016 04:37
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 04:37
Trichloroethene	ND	2.8	1	03/10/2016 04:37

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-20	1603185-004A	SoilGas	03/03/2016 14:54	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.38	22.68	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	2.8	1	03/10/2016 04:37
Vinyl Chloride	ND	1.3	1	03/10/2016 04:37
Xylenes, Total	430	6.6	1	03/10/2016 04:37
Surrogates	REC (%)	Limits		
1,2-DCA-d4	88	70-130		03/10/2016 04:37
Toluene-d8	101	70-130		03/10/2016 04:37
4-BFB	100	70-130		03/10/2016 04:37



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-21	1603185-005A	SoilGas	03/03/2016 11:51	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.80	23.56	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	260	1.6	1	03/10/2016 05:17
Bromodichloromethane	ND	3.5	1	03/10/2016 05:17
Carbon Tetrachloride	ND	3.2	1	03/10/2016 05:17
Chlorobenzene	ND	2.4	1	03/10/2016 05:17
Chloroethane	ND	1.3	1	03/10/2016 05:17
Chloroform	ND	2.4	1	03/10/2016 05:17
Chloromethane	ND	1.0	1	03/10/2016 05:17
Dibromochloromethane	ND	4.4	1	03/10/2016 05:17
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 05:17
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 05:17
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 05:17
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 05:17
Dichlorodifluoromethane	3.6	2.5	1	03/10/2016 05:17
1,1-Dichloroethane	ND	2.0	1	03/10/2016 05:17
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 05:17
1,1-Dichloroethene	ND	2.0	1	03/10/2016 05:17
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 05:17
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 05:17
1,2-Dichloropropane	ND	2.4	1	03/10/2016 05:17
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 05:17
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 05:17
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 05:17
Ethylbenzene	250	2.2	1	03/10/2016 05:17
Freon 113	ND	3.9	1	03/10/2016 05:17
Methylene chloride	ND	8.8	1	03/10/2016 05:17
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 05:17
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 05:17
Tetrachloroethene	56	3.4	1	03/10/2016 05:17
Toluene	2700	19	10	03/09/2016 22:02
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 05:17
1,1,1-Trichloroethane	ND	2.8	1	03/10/2016 05:17
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 05:17
Trichloroethene	ND	2.8	1	03/10/2016 05:17

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-21	1603185-005A	SoilGas	03/03/2016 11:51	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.80	23.56	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	2.8	1	03/10/2016 05:17
Vinyl Chloride	ND	1.3	1	03/10/2016 05:17
Xylenes, Total	1000	6.6	1	03/10/2016 05:17
Surrogates	REC (%)	Limits		
1,2-DCA-d4	86	70-130		03/10/2016 05:17
Toluene-d8	101	70-130		03/10/2016 05:17
4-BFB	99	70-130		03/10/2016 05:17

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-22	1603185-006A	SoilGas	03/03/2016 11:20	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.23	24.48	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	280	1.6	1	03/10/2016 05:57
Bromodichloromethane	ND	3.5	1	03/10/2016 05:57
Carbon Tetrachloride	ND	3.2	1	03/10/2016 05:57
Chlorobenzene	ND	2.4	1	03/10/2016 05:57
Chloroethane	ND	1.3	1	03/10/2016 05:57
Chloroform	ND	2.4	1	03/10/2016 05:57
Chloromethane	ND	1.0	1	03/10/2016 05:57
Dibromochloromethane	ND	4.4	1	03/10/2016 05:57
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 05:57
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 05:57
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 05:57
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 05:57
Dichlorodifluoromethane	27	2.5	1	03/10/2016 05:57
1,1-Dichloroethane	ND	2.0	1	03/10/2016 05:57
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 05:57
1,1-Dichloroethene	ND	2.0	1	03/10/2016 05:57
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 05:57
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 05:57
1,2-Dichloropropane	ND	2.4	1	03/10/2016 05:57
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 05:57
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 05:57
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 05:57
Ethylbenzene	280	2.2	1	03/10/2016 05:57
Freon 113	ND	3.9	1	03/10/2016 05:57
Methylene chloride	ND	8.8	1	03/10/2016 05:57
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 05:57
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 05:57
Tetrachloroethene	240	3.4	1	03/10/2016 05:57
Toluene	2900	19	10	03/09/2016 22:41
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 05:57
1,1,1-Trichloroethane	ND	2.8	1	03/10/2016 05:57
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 05:57
Trichloroethene	ND	2.8	1	03/10/2016 05:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-22	1603185-006A	SoilGas	03/03/2016 11:20	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.23	24.48	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	2.8	1	03/10/2016 05:57
Vinyl Chloride	ND	1.3	1	03/10/2016 05:57
Xylenes, Total	1100	6.6	1	03/10/2016 05:57
Surrogates	REC (%)	Limits		
1,2-DCA-d4	84	70-130		03/10/2016 05:57
Toluene-d8	99	70-130		03/10/2016 05:57
4-BFB	100	70-130		03/10/2016 05:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-23	1603185-007A	SoilGas	03/03/2016 13:44	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.72	25.45	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	11	1.6	1	03/10/2016 06:37
Bromodichloromethane	ND	3.5	1	03/10/2016 06:37
Carbon Tetrachloride	ND	3.2	1	03/10/2016 06:37
Chlorobenzene	ND	2.4	1	03/10/2016 06:37
Chloroethane	ND	1.3	1	03/10/2016 06:37
Chloroform	ND	2.4	1	03/10/2016 06:37
Chloromethane	ND	1.0	1	03/10/2016 06:37
Dibromochloromethane	ND	4.4	1	03/10/2016 06:37
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 06:37
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 06:37
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 06:37
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 06:37
Dichlorodifluoromethane	5.3	2.5	1	03/10/2016 06:37
1,1-Dichloroethane	ND	2.0	1	03/10/2016 06:37
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 06:37
1,1-Dichloroethene	ND	2.0	1	03/10/2016 06:37
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 06:37
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 06:37
1,2-Dichloropropane	ND	2.4	1	03/10/2016 06:37
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 06:37
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 06:37
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 06:37
Ethylbenzene	95	2.2	1	03/10/2016 06:37
Freon 113	ND	3.9	1	03/10/2016 06:37
Methylene chloride	ND	8.8	1	03/10/2016 06:37
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 06:37
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 06:37
Tetrachloroethene	120	3.4	1	03/10/2016 06:37
Toluene	280	1.9	1	03/10/2016 06:37
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 06:37
1,1,1-Trichloroethane	2.8	2.8	1	03/10/2016 06:37
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 06:37
Trichloroethene	ND	2.8	1	03/10/2016 06:37

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-23	1603185-007A	SoilGas	03/03/2016 13:44	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.72	25.45	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	2.9	2.8	1	03/10/2016 06:37
Vinyl Chloride	ND	1.3	1	03/10/2016 06:37
Xylenes, Total	420	6.6	1	03/10/2016 06:37
Surrogates	REC (%)	Limits		
1,2-DCA-d4	82	70-130		03/10/2016 06:37
Toluene-d8	100	70-130		03/10/2016 06:37
4-BFB	97	70-130		03/10/2016 06:37

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-26	1603185-008A	SoilGas	03/03/2016 11:42	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.00	23.95	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	220	1.6	1	03/10/2016 07:17
Bromodichloromethane	ND	3.5	1	03/10/2016 07:17
Carbon Tetrachloride	ND	3.2	1	03/10/2016 07:17
Chlorobenzene	ND	2.4	1	03/10/2016 07:17
Chloroethane	ND	1.3	1	03/10/2016 07:17
Chloroform	ND	2.4	1	03/10/2016 07:17
Chloromethane	ND	1.0	1	03/10/2016 07:17
Dibromochloromethane	ND	4.4	1	03/10/2016 07:17
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 07:17
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 07:17
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 07:17
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 07:17
Dichlorodifluoromethane	2.8	2.5	1	03/10/2016 07:17
1,1-Dichloroethane	ND	2.0	1	03/10/2016 07:17
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 07:17
1,1-Dichloroethene	ND	2.0	1	03/10/2016 07:17
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 07:17
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 07:17
1,2-Dichloropropane	ND	2.4	1	03/10/2016 07:17
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 07:17
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 07:17
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 07:17
Ethylbenzene	210	2.2	1	03/10/2016 07:17
Freon 113	ND	3.9	1	03/10/2016 07:17
Methylene chloride	ND	8.8	1	03/10/2016 07:17
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 07:17
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 07:17
Tetrachloroethene	4.7	3.4	1	03/10/2016 07:17
Toluene	2400	19	10	03/09/2016 23:59
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 07:17
1,1,1-Trichloroethane	ND	2.8	1	03/10/2016 07:17
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 07:17
Trichloroethene	ND	2.8	1	03/10/2016 07:17

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-26	1603185-008A	SoilGas	03/03/2016 11:42	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.00	23.95	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	2.8	1	03/10/2016 07:17
Vinyl Chloride	ND	1.3	1	03/10/2016 07:17
Xylenes, Total	850	6.6	1	03/10/2016 07:17
Surrogates	REC (%)	Limits		
1,2-DCA-d4	83	70-130		03/10/2016 07:17
Toluene-d8	100	70-130		03/10/2016 07:17
4-BFB	99	70-130		03/10/2016 07:17



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-27	1603185-009A	SoilGas	03/03/2016 12:02	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.43	24.84	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	96	1.6	1	03/10/2016 07:57
Bromodichloromethane	ND	3.5	1	03/10/2016 07:57
Carbon Tetrachloride	ND	3.2	1	03/10/2016 07:57
Chlorobenzene	ND	2.4	1	03/10/2016 07:57
Chloroethane	ND	1.3	1	03/10/2016 07:57
Chloroform	ND	2.4	1	03/10/2016 07:57
Chloromethane	ND	1.0	1	03/10/2016 07:57
Dibromochloromethane	ND	4.4	1	03/10/2016 07:57
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 07:57
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 07:57
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 07:57
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 07:57
Dichlorodifluoromethane	12	2.5	1	03/10/2016 07:57
1,1-Dichloroethane	ND	2.0	1	03/10/2016 07:57
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 07:57
1,1-Dichloroethene	ND	2.0	1	03/10/2016 07:57
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 07:57
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 07:57
1,2-Dichloropropane	ND	2.4	1	03/10/2016 07:57
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 07:57
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 07:57
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 07:57
Ethylbenzene	110	2.2	1	03/10/2016 07:57
Freon 113	ND	3.9	1	03/10/2016 07:57
Methylene chloride	ND	8.8	1	03/10/2016 07:57
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 07:57
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 07:57
Tetrachloroethene	73	3.4	1	03/10/2016 07:57
Toluene	1100	19	10	03/10/2016 00:39
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 07:57
1,1,1-Trichloroethane	3.2	2.8	1	03/10/2016 07:57
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 07:57
Trichloroethene	ND	2.8	1	03/10/2016 07:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-27	1603185-009A	SoilGas	03/03/2016 12:02	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.43	24.84	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	2.8	1	03/10/2016 07:57
Vinyl Chloride	ND	1.3	1	03/10/2016 07:57
Xylenes, Total	460	6.6	1	03/10/2016 07:57
Surrogates	REC (%)	Limits		
1,2-DCA-d4	84	70-130		03/10/2016 07:57
Toluene-d8	101	70-130		03/10/2016 07:57
4-BFB	98	70-130		03/10/2016 07:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-28	1603185-010A	SoilGas	03/03/2016 13:36	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.16	24.38	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	90	1.6	1	03/10/2016 08:41
Bromodichloromethane	ND	3.5	1	03/10/2016 08:41
Carbon Tetrachloride	ND	3.2	1	03/10/2016 08:41
Chlorobenzene	ND	2.4	1	03/10/2016 08:41
Chloroethane	ND	1.3	1	03/10/2016 08:41
Chloroform	ND	2.4	1	03/10/2016 08:41
Chloromethane	1.2	1.0	1	03/10/2016 08:41
Dibromochloromethane	ND	4.4	1	03/10/2016 08:41
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 08:41
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 08:41
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 08:41
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 08:41
Dichlorodifluoromethane	14	2.5	1	03/10/2016 08:41
1,1-Dichloroethane	ND	2.0	1	03/10/2016 08:41
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 08:41
1,1-Dichloroethene	ND	2.0	1	03/10/2016 08:41
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 08:41
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 08:41
1,2-Dichloropropane	ND	2.4	1	03/10/2016 08:41
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 08:41
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 08:41
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 08:41
Ethylbenzene	100	2.2	1	03/10/2016 08:41
Freon 113	ND	3.9	1	03/10/2016 08:41
Methylene chloride	ND	8.8	1	03/10/2016 08:41
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 08:41
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 08:41
Tetrachloroethene	78	3.4	1	03/10/2016 08:41
Toluene	720	19	10	03/10/2016 01:18
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 08:41
1,1,1-Trichloroethane	3.4	2.8	1	03/10/2016 08:41
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 08:41
Trichloroethene	ND	2.8	1	03/10/2016 08:41

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-28	1603185-010A	SoilGas	03/03/2016 13:36	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.16	24.38	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	2.8	1	03/10/2016 08:41
Vinyl Chloride	ND	1.3	1	03/10/2016 08:41
Xylenes, Total	360	6.6	1	03/10/2016 08:41
Surrogates	REC (%)	Limits		
1,2-DCA-d4	81	70-130		03/10/2016 08:41
Toluene-d8	99	70-130		03/10/2016 08:41
4-BFB	98	70-130		03/10/2016 08:41

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-29	1603185-011A	SoilGas	03/03/2016 12:22	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.56	25.15	AK

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Benzene	180		2.9	16	10	03/10/2016 11:58
Bromodichloromethane	ND		0.98	35	10	03/10/2016 11:58
Carbon Tetrachloride	ND		5.1	32	10	03/10/2016 11:58
Chlorobenzene	ND		4.0	24	10	03/10/2016 11:58
Chloroethane	ND		3.4	13	10	03/10/2016 11:58
Chloroform	ND		4.1	24	10	03/10/2016 11:58
Chloromethane	ND		2.0	10	10	03/10/2016 11:58
Dibromochloromethane	ND		6.6	44	10	03/10/2016 11:58
1,2-Dibromo-3-chloropropane	ND		0.49	1.2	10	03/10/2016 11:58
1,2-Dichlorobenzene	ND		7.3	30	10	03/10/2016 11:58
1,3-Dichlorobenzene	ND		6.5	30	10	03/10/2016 11:58
1,4-Dichlorobenzene	ND		6.2	30	10	03/10/2016 11:58
Dichlorodifluoromethane	11	J	4.4	25	10	03/10/2016 11:58
1,1-Dichloroethane	ND		3.4	20	10	03/10/2016 11:58
1,2-Dichloroethane (1,2-DCA)	ND		0.62	20	10	03/10/2016 11:58
1,1-Dichloroethene	ND		4.0	20	10	03/10/2016 11:58
cis-1,2-Dichloroethene	ND		2.8	20	10	03/10/2016 11:58
trans-1,2-Dichloroethene	ND		3.5	20	10	03/10/2016 11:58
1,2-Dichloropropane	ND		0.63	24	10	03/10/2016 11:58
cis-1,3-Dichloropropene	ND		3.0	23	10	03/10/2016 11:58
trans-1,3-Dichloropropene	ND		2.6	23	10	03/10/2016 11:58
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND		6.0	36	10	03/10/2016 11:58
Ethylbenzene	230		3.8	22	10	03/10/2016 11:58
Freon 113	ND		7.0	39	10	03/10/2016 11:58
Methylene chloride	21	J	4.4	88	10	03/10/2016 11:58
1,1,1,2-Tetrachloroethane	ND		5.9	35	10	03/10/2016 11:58
1,1,2,2-Tetrachloroethane	ND		5.7	35	10	03/10/2016 11:58
Tetrachloroethene	15	J	5.5	34	10	03/10/2016 11:58
Toluene	2100		2.2	19	10	03/10/2016 11:58
1,2,4-Trichlorobenzene	ND		2.2	38	10	03/10/2016 11:58
1,1,1-Trichloroethane	ND		4.7	28	10	03/10/2016 11:58
1,1,2-Trichloroethane	ND		1.2	28	10	03/10/2016 11:58
Trichloroethene	ND		4.7	28	10	03/10/2016 11:58
Trichlorofluoromethane	ND		8.0	29	10	03/10/2016 11:58

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-29	1603185-011A	SoilGas	03/03/2016 12:22	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.56	25.15	AK

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Vinyl Chloride	ND		0.39	13	10	03/10/2016 11:58
Xylenes, Total	990		8.3	66	10	03/10/2016 11:58

Surrogates	REC (%)	Limits	Date Analyzed
1,2-DCA-d4	85	70-130	03/10/2016 11:58
Toluene-d8	100	70-130	03/10/2016 11:58
4-BFB	97	70-130	03/10/2016 11:58

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-42	1603185-012A	SoilGas	03/03/2016 10:25	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.00	23.96	AK

Analytes	Result	RL	DF	Date Analyzed
Benzene	4.9	1.6	1	03/10/2016 09:21
Bromodichloromethane	ND	3.5	1	03/10/2016 09:21
Carbon Tetrachloride	ND	3.2	1	03/10/2016 09:21
Chlorobenzene	ND	2.4	1	03/10/2016 09:21
Chloroethane	ND	1.3	1	03/10/2016 09:21
Chloroform	ND	2.4	1	03/10/2016 09:21
Chloromethane	ND	1.0	1	03/10/2016 09:21
Dibromochloromethane	ND	4.4	1	03/10/2016 09:21
1,2-Dibromo-3-chloropropane	ND	0.12	1	03/10/2016 09:21
1,2-Dichlorobenzene	ND	3.0	1	03/10/2016 09:21
1,3-Dichlorobenzene	ND	3.0	1	03/10/2016 09:21
1,4-Dichlorobenzene	ND	3.0	1	03/10/2016 09:21
Dichlorodifluoromethane	ND	2.5	1	03/10/2016 09:21
1,1-Dichloroethane	ND	2.0	1	03/10/2016 09:21
1,2-Dichloroethane (1,2-DCA)	ND	2.0	1	03/10/2016 09:21
1,1-Dichloroethene	ND	2.0	1	03/10/2016 09:21
cis-1,2-Dichloroethene	ND	2.0	1	03/10/2016 09:21
trans-1,2-Dichloroethene	ND	2.0	1	03/10/2016 09:21
1,2-Dichloropropane	ND	2.4	1	03/10/2016 09:21
cis-1,3-Dichloropropene	ND	2.3	1	03/10/2016 09:21
trans-1,3-Dichloropropene	ND	2.3	1	03/10/2016 09:21
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	3.6	1	03/10/2016 09:21
Ethylbenzene	20	2.2	1	03/10/2016 09:21
Freon 113	ND	3.9	1	03/10/2016 09:21
Methylene chloride	ND	8.8	1	03/10/2016 09:21
1,1,1,2-Tetrachloroethane	ND	3.5	1	03/10/2016 09:21
1,1,2,2-Tetrachloroethane	ND	3.5	1	03/10/2016 09:21
Tetrachloroethene	16	3.4	1	03/10/2016 09:21
Toluene	61	1.9	1	03/10/2016 09:21
1,2,4-Trichlorobenzene	ND	3.8	1	03/10/2016 09:21
1,1,1-Trichloroethane	ND	2.8	1	03/10/2016 09:21
1,1,2-Trichloroethane	ND	2.8	1	03/10/2016 09:21
Trichloroethene	ND	2.8	1	03/10/2016 09:21

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Halogenated Volatile Organic Compounds

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-42	1603185-012A	SoilGas	03/03/2016 10:25	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.00	23.96	AK

Analytes	Result	RL	DF	Date Analyzed
Trichlorofluoromethane	ND	2.8	1	03/10/2016 09:21
Vinyl Chloride	ND	1.3	1	03/10/2016 09:21
Xylenes, Total	96	6.6	1	03/10/2016 09:21
Surrogates	REC (%)	Limits		
1,2-DCA-d4	82	70-130		03/10/2016 09:21
Toluene-d8	100	70-130		03/10/2016 09:21
4-BFB	98	70-130		03/10/2016 09:21



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Leak Check Compound

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-16	1603185-001A	SoilGas	03/03/2016 13:51	GC29	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.42	24.87	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	160	50	1	03/10/2016 15:05
1,1-Difluoroethane as Dichlorodifluoromethane	190	28	1	03/10/2016 15:05

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-17	1603185-002A	SoilGas	03/03/2016 13:57	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.19	24.34	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 03:17
1,1-Difluoroethane as Dichlorodifluoromethane	1500	280	10	03/09/2016 20:05

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-19	1603185-003A	SoilGas	03/03/2016 14:37	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
5.50	20.05	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	91	1	03/10/2016 03:57
1,1-Difluoroethane as Dichlorodifluoromethane	120	51	1	03/10/2016 03:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Leak Check Compound

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-20	1603185-004A	SoilGas	03/03/2016 14:54	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.38	22.68	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 04:37
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	03/10/2016 04:37

ASV-21	1603185-005A	SoilGas	03/03/2016 11:51	GC24	117852
--------	--------------	---------	------------------	------	--------

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
11.80	23.56	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 05:17
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	03/10/2016 05:17

ASV-22	1603185-006A	SoilGas	03/03/2016 11:20	GC24	117852
--------	--------------	---------	------------------	------	--------

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.23	24.48	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 05:57
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	03/10/2016 05:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Leak Check Compound

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-23	1603185-007A	SoilGas	03/03/2016 13:44	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.72	25.45	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 06:37
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	03/10/2016 06:37

ASV-26	1603185-008A	SoilGas	03/03/2016 11:42	GC24	117852
--------	--------------	---------	------------------	------	--------

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.00	23.95	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 07:17
1,1-Difluoroethane as Dichlorodifluoromethane	42	28	1	03/10/2016 07:17

ASV-27	1603185-009A	SoilGas	03/03/2016 12:02	GC24	117852
--------	--------------	---------	------------------	------	--------

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.43	24.84	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 07:57
1,1-Difluoroethane as Dichlorodifluoromethane	180	28	1	03/10/2016 07:57

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/3/16 20:52
Date Prepared: 3/9/16-3/10/16
Project: 345989; Lucasey

WorkOrder: 1603185
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³

Leak Check Compound

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-28	1603185-010A	SoilGas	03/03/2016 13:36	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.16	24.38	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 08:41
1,1-Difluoroethane as Dichlorodifluoromethane	ND	28	1	03/10/2016 08:41

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-29	1603185-011A	SoilGas	03/03/2016 12:22	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.56	25.15	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	500	10	03/10/2016 11:58
1,1-Difluoroethane as Dichlorodifluoromethane	ND	280	10	03/10/2016 11:58

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
ASV-42	1603185-012A	SoilGas	03/03/2016 10:25	GC24	117852

Initial Pressure (psia)	Final Pressure (psia)	Analyst(s)
12.00	23.96	AK

Analytes	Result	RL	DF	Date Analyzed
Isopropyl Alcohol	ND	50	1	03/10/2016 09:21
1,1-Difluoroethane as Dichlorodifluoromethane	390	28	1	03/10/2016 09:21



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/4/16 - 3/7/16
Date Analyzed: 3/4/16 - 3/7/16
Instrument: GC26
Matrix: SoilGas
Project: 345989; Lucasey

WorkOrder: 1603185
BatchID: 117655
Extraction Method: ASTM D 1946-90
Analytical Method: ASTM D 1946-90
Unit: uL/L
Sample ID: MB/LCS-117655

QC Summary Report for ASTM D1946-90

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Methane	ND	108	1.0	100	-	108	70-130
Oxygen	ND	5220	2000	7000	-	75	70-130



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/9/16
Date Analyzed: 3/9/16
Instrument: GC24
Matrix: SoilGas
Project: 345989; Lucasey

WorkOrder: 1603185
BatchID: 117852
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS-117852

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	30	-	-	-	-
Acrolein	ND	-	2.9	-	-	-	-
Acrylonitrile	ND	-	0.55	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	1.0	-	-	-	-
Benzene	ND	-	0.80	-	-	-	-
Benzyl chloride	ND	-	1.3	-	-	-	-
Bromodichloromethane	ND	185	1.8	175	-	106	60-140
Bromoform	ND	282	2.6	262.5	-	108	60-140
Bromomethane	ND	-	1.0	-	-	-	-
1,3-Butadiene	ND	-	0.55	-	-	-	-
2-Butanone (MEK)	ND	-	38	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	16	-	-	-	-
Carbon Disulfide	ND	-	0.80	-	-	-	-
Carbon Tetrachloride	ND	154	1.6	160	-	97	60-140
Chlorobenzene	ND	112	1.2	117.5	-	95	60-140
Chloroethane	ND	60.4	0.65	67.5	-	89	60-140
Chloroform	ND	104	1.2	122.5	-	85	60-140
Chloromethane	ND	45.7	0.50	52.5	-	87	60-140
Cyclohexane	ND	-	9.0	-	-	-	-
Dibromochloromethane	ND	252	2.2	217.5	-	116	60-140
1,2-Dibromo-3-chloropropane	ND	281	0.060	245	-	115	60-140
1,2-Dibromoethane (EDB)	ND	193	2.0	195	-	99	60-140
1,2-Dichlorobenzene	ND	-	1.5	-	-	-	-
1,3-Dichlorobenzene	ND	152	1.5	152.5	-	100	60-140
1,4-Dichlorobenzene	ND	149	1.5	152.5	-	98	60-140
Dichlorodifluoromethane	ND	106	1.2	125	-	85	60-140
1,1-Dichloroethane	ND	99.1	1.0	102.5	-	97	60-140
1,2-Dichloroethane (1,2-DCA)	ND	79.9	1.0	102.5	-	78	60-140
1,1-Dichloroethene	ND	103	1.0	100	-	103	60-140
cis-1,2-Dichloroethene	ND	89.6	1.0	100	-	90	60-140
trans-1,2-Dichloroethene	ND	91.7	1.0	100	-	92	60-140
1,2-Dichloropropane	ND	103	1.2	117.5	-	88	60-140
cis-1,3-Dichloropropene	ND	146	1.2	115	-	127	60-140
trans-1,3-Dichloropropene	ND	125	1.2	115	-	109	60-140
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	152	1.8	177.5	-	86	60-140
Diisopropyl ether (DIPE)	ND	-	1.0	-	-	-	-
1,4-Dioxane	ND	-	0.90	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/9/16
Date Analyzed: 3/9/16
Instrument: GC24
Matrix: SoilGas
Project: 345989; Lucasey

WorkOrder: 1603185
BatchID: 117852
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS-117852

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Ethanol	ND	-	48	-	-	-	-
Ethyl acetate	ND	-	0.90	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	1.0	-	-	-	-
Ethylbenzene	ND	-	1.1	-	-	-	-
4-Ethyltoluene	ND	-	1.2	-	-	-	-
Freon 113	ND	167	2.0	195	-	86	60-140
Heptane	ND	-	10	-	-	-	-
Hexachlorobutadiene	ND	-	2.7	-	-	-	-
Hexane	ND	-	9.0	-	-	-	-
2-Hexanone	ND	-	1.0	-	-	-	-
Isopropyl Alcohol	ND	-	25	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	1.0	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.90	-	-	-	-
Methylene chloride	ND	82.3	4.4	87.5	-	94	60-140
Methyl methacrylate	ND	-	1.0	-	-	-	-
Naphthalene	ND	-	2.6	-	-	-	-
Propene	ND	-	44	-	-	-	-
Styrene	ND	-	1.1	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	164	1.8	175	-	93	60-140
1,1,2,2-Tetrachloroethane	ND	164	1.8	175	-	94	60-140
Tetrachloroethene	ND	156	1.7	172	-	91	60-140
Tetrahydrofuran	ND	-	1.5	-	-	-	-
Toluene	ND	-	0.95	-	-	-	-
1,2,4-Trichlorobenzene	ND	209	1.9	187.5	-	112	60-140
1,1,1-Trichloroethane	ND	170	1.4	137.5	-	123	60-140
1,1,2-Trichloroethane	ND	124	1.4	137.5	-	90	60-140
Trichloroethene	ND	122	1.4	137.5	-	89	60-140
Trichlorofluoromethane	ND	146	1.4	142.5	-	102	60-140
1,2,4-Trimethylbenzene	ND	-	1.2	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	1.2	-	-	-	-
Vinyl Acetate	ND	-	9.0	-	-	-	-
Vinyl Chloride	ND	57.7	0.65	65	-	89	60-140
Xylenes, Total	ND	-	3.3	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/9/16
Date Analyzed: 3/9/16
Instrument: GC24
Matrix: SoilGas
Project: 345989; Lucasey

WorkOrder: 1603185
BatchID: 117852
Extraction Method: TO15
Analytical Method: TO15
Unit: µg/m³
Sample ID: MB/LCS-117852

QC Summary Report for TO15

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
1,2-DCA-d4	442	425		500	88	85	70-130
Toluene-d8	498	502		500	100	100	70-130
4-BFB	490	501		500	98	100	70-130

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1603185

ClientCode: AEL

WaterTrax WriteOn EDF Excel EQUIS Email HardCopy ThirdParty J-flag

Report to:
Jonathan Sanders
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jsanders@aeiconsultants.com
cc/3rd Party:
PO:
ProjectNo: 345989; Lucasey

Bill to:
Accounts Payable
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.com

Requested TAT: 5 days;

Date Received: 03/03/2016
Date Logged: 03/03/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1603185-001	ASV-16	SoilGas	3/3/2016 13:51	<input type="checkbox"/>	A	A			A	A	A	A				
1603185-002	ASV-17	SoilGas	3/3/2016 13:57	<input type="checkbox"/>	A				A	A	A	A				
1603185-003	ASV-19	SoilGas	3/3/2016 14:37	<input type="checkbox"/>	A				A	A	A	A				
1603185-004	ASV-20	SoilGas	3/3/2016 14:54	<input type="checkbox"/>	A				A	A	A	A				
1603185-005	ASV-21	SoilGas	3/3/2016 11:51	<input type="checkbox"/>	A				A	A	A	A				
1603185-006	ASV-22	SoilGas	3/3/2016 11:20	<input type="checkbox"/>	A				A	A	A	A				
1603185-007	ASV-23	SoilGas	3/3/2016 13:44	<input type="checkbox"/>	A				A	A	A	A				
1603185-008	ASV-26	SoilGas	3/3/2016 11:42	<input type="checkbox"/>	A				A	A	A	A				
1603185-009	ASV-27	SoilGas	3/3/2016 12:02	<input type="checkbox"/>	A				A	A	A	A				
1603185-010	ASV-28	SoilGas	3/3/2016 13:36	<input type="checkbox"/>	A				A	A	A	A				
1603185-011	ASV-29	SoilGas	3/3/2016 12:22	<input type="checkbox"/>	A				A	A	A	A				
1603185-012	ASV-42	SoilGas	3/3/2016 10:25	<input type="checkbox"/>	A				A	A	A	A				
1603185-013	Unused Summa	SoilGas	<Not Provided>	<input type="checkbox"/>			A						A			
1603185-014	Batch Cert Canister 836 #1	Nitrogen	3/3/2016	<input type="checkbox"/>				A								
1603185-014	Batch Cert Canister 836 #2	Nitrogen	3/3/2016	<input type="checkbox"/>				B								

Test Legend:

1	LG_SUMMA_SOILGAS	2	PREFD REPORT	3	PRUNUSEDSUMMA	4	TO15_CERT_ScanSIM_SOIL(UG/M3)
5	TO15-8010_Scan-SIM_SOIL(UG/M3)	6	TO15-8260_SOIL(UG/M3)	7	TO15-LC_SOIL(UG/M3)	8	TO15-LC8260_SOIL(UG/M3)
9	UNUSED_SUMMA	10		11		12	

Prepared by: Jena Alfaro

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A contain testgroup.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1603185

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Jonathan Sanders
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 283-6000 FAX: (925) 944-2895

Email: jsanders@aeiconsultants.com
cc/3rd Party:
PO:
ProjectNo: 345989; Lucasey

Bill to:

Accounts Payable
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.com

Requested TAT: 5 days;

Date Received: 03/03/2016

Date Logged: 03/03/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1603185-015	Batch Cert Canister 837 #1	Nitrogen	3/3/2016	<input type="checkbox"/>				A								
1603185-015	Batch Cert Canister 837 #2	Nitrogen	3/3/2016	<input type="checkbox"/>				B								
1603185-016	Batch Cert Canister 838 #1	Nitrogen	3/3/2016	<input type="checkbox"/>				A								
1603185-016	Batch Cert Canister 838 #2	Nitrogen	3/3/2016	<input type="checkbox"/>				B								
1603185-016	Batch Cert Canister 838 #3	Nitrogen	3/3/2016	<input checked="" type="checkbox"/>				C								
1603185-017	Batch Cert Canister 835 #1	Nitrogen	3/3/2016	<input type="checkbox"/>				A								
1603185-017	Batch Cert Canister 835 #2	Nitrogen	3/3/2016	<input type="checkbox"/>				B								
1603185-017	Batch Cert Canister 835 #3	Nitrogen	3/3/2016	<input type="checkbox"/>				C								

Test Legend:

1	LG_SUMMA_SOILGAS	2	PREFD REPORT	3	PRUNUSEDSUMMA	4	TO15_CERT_ScanSIM_SOIL(UG/M3)
5	TO15-8010_Scan-SIM_SOIL(UG/M3)	6	TO15-8260_SOIL(UG/M3)	7	TO15-LC_SOIL(UG/M3)	8	TO15-LC8260_SOIL(UG/M3)
9	UNUSED_SUMMA	10		11		12	

Prepared by: Jena Alfaro

The following SampIDs: 001A, 002A, 003A, 004A, 005A, 006A, 007A, 008A, 009A, 010A, 011A, 012A contain testgroup.

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603185

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/3/2016

Comments: Batch Certifications for canisters added 3/15/16

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De- chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603185-001A	ASV-16	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 13:51	5 days		<input type="checkbox"/>	
1603185-001B	ASV-16	SoilGas		1	1L Summa	<input type="checkbox"/>	3/3/2016 13:51			<input checked="" type="checkbox"/>	
1603185-002A	ASV-17	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 13:57	5 days		<input type="checkbox"/>	
1603185-003A	ASV-19	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 14:37	5 days		<input type="checkbox"/>	
1603185-004A	ASV-20	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 14:54	5 days		<input type="checkbox"/>	
1603185-005A	ASV-21	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 11:51	5 days		<input type="checkbox"/>	
1603185-006A	ASV-22	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 11:20	5 days		<input type="checkbox"/>	
1603185-007A	ASV-23	SoilGas	HVOCs by TO15 for Soil Vapor	1	1L Summa	<input type="checkbox"/>	3/3/2016 13:44	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603185

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/3/2016

Comments: Batch Certifications for canisters added 3/15/16

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603185-007A	ASV-23	SoilGas	ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 13:44	5 days		<input type="checkbox"/>	
1603185-008A	ASV-26	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 11:42	5 days		<input type="checkbox"/>	
1603185-009A	ASV-27	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 12:02	5 days		<input type="checkbox"/>	
1603185-010A	ASV-28	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 13:36	5 days		<input type="checkbox"/>	
1603185-011A	ASV-29	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 12:22	5 days		<input type="checkbox"/>	
1603185-012A	ASV-42	SoilGas	HVOCs by TO15 for Soil Vapor ASTM D1946-90 (Light Gases) <Methane_4, Oxygen>	1	1L Summa	<input type="checkbox"/>	3/3/2016 10:25	5 days		<input type="checkbox"/>	
1603185-013A	Unused Summa	SoilGas	Unused Summa	1	1L Summa	<input type="checkbox"/>	<Not Provided>	5 days		<input type="checkbox"/>	
1603185-014A	Batch Cert. 836 #1 (1603185-009)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603185

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/3/2016

Comments: Batch Certifications for canisters added 3/15/16

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603185-014B	Batch Cert. 836 #2 (1603185-009)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	
1603185-015A	Batch Cert. 837 #1 (1603185-001)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	
1603185-015B	Batch Cert. 837 #2 (1603185-001)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	
1603185-016A	Batch Cert. 838 #1 (1603185-2,5,10,11)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	
1603185-016B	Batch Cert. 838 #2 (1603185-2,5,10,11)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	
1603185-016C	Batch Cert. 838 #3	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1 / (1:1)		<input type="checkbox"/>	3/3/2016	5 days		<input checked="" type="checkbox"/>	
1603185-017A	Batch Cert 835 #1 (1603185-3,4,6,7,8,12)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	
1603185-017B	Batch Cert 835 #2 (1603185-3,4,6,7,8,12)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	
1603185-017C	Batch Cert 835 #3 (1603185-3,4,6,7,8,12)	Nitrogen	TO15 (VOCs, Scan SIM CERT) (µg/m ³)	1		<input type="checkbox"/>	3/3/2016	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 Day 2 Day 3 Day 5 DAY
GeoTracker EDF PDF EDD EQuIS 10 DAY
UST Clean Up Fund Project Claim #

1603185

Report To: Jonathan Sanders

Bill To: AEI

Company: AEI

E-Mail: jsanders@aEICONSULANTS.COM

Tele: (925) 746-6000

Fax: (925) 746-6099

Project #: 345989

Project Name: Lucasey

Project Location: 2744 E. 11th St., Oakland, CA

Sampler Signature: [Signature]

Analysis Requested

Helium Shroud SN#

Other:

Notes: Please Specify units if different than defaults VOCs is ug/m3 and fixed gas is uL/L. Leak check default is IPA.

Field Sample ID (Location)	Collection		Canister SN#	Sampler Kit SN#	CVOCS by TO-15 (ug/m3)	8010 by TO-15 (ug/m3)	TPH(g) (ug/m3)	LEED (inc. 4PCH, Formaldehyde, CO, Total VOCs)	Fixed Gas: CO2, Methane, Ethane, Ethylene, Acetylene, CO (please circle or indicate in notes) uL/L	Fixed Gas: O2, N2 (please circle) uL/L	Fixed Gas: Propane uL/L	Helium Leak Check (%)	Leak Check (IPA) Norflorane, Both 1,1-difluoroethane ug/m3	APH: Aliphatic and/or Aromatic (please circle) ug/m3	Other: <u>ASTM D 1946-90 (CH4, O2, N2)</u>	Matrix		Cannister Pressure/ Vacuum	
	Date	Time														Soilgas	Indoor Air	Initial	Final
ASV-16	3/3/16	1351	6204-745	316-814	X								X		X	X		-29.0	-5.0
ASV-17		1357	6203-744	316-1332	X								X		X	X		-28.5	-5.0
ASV-19		1437	1917-1900	216-1331	X								X		X	X		-29.0	-18.0
ASV-20		1454	1988-1936	316-1327	X								X		X	X		-28.5	-6.0
ASV-21		1151	1972-1920	216-1337	X								X		X	X		-28.0	-5.0
ASV-22		1120	7531-879	316-1347	X								X		X	X		-30.0	-5.0
ASV-23		1344	6207-748	316-684	X								X		X	X		-28.5	-4.0
ASV-26		1142	6202-743	316-770	X								X		X	X		-29.5	-6.0
ASV-27		1202	2041-1939	316-1325	X								X		X	X		-29.0	-5.0
ASV-28		1336	5807-738	316-1327	X								X		X	X		-29.0	-5.0
ASV-29		1222	6163-749	316-1316	X								X		X	X		-30.0	-5.0
ASV-42		1025	7517-865	316-767	X								X		X	X		-29.5	-5.0

Relinquished By:

Date:

Time:

Received By:

[Signature]

3/3/16

1625

[Signature]

Temp (°C) : _____ Work Order #: _____

Relinquished By:

Date:

Time:

Received By:

Condition: _____

Relinquished By:

Date:

Time:

Received By:

Custody Seals Intact?: Yes _____ No _____ None _____

Shipped Via: _____



Sample Receipt Checklist

Client Name:	AEI Consultants	Date and Time Received:	3/3/2016 16:25
Project Name:	345989; Lucasey	Date Logged:	3/3/2016
WorkOrder No:	1603185	Received by:	Maria Venegas
Carrier:	<u>Client Drop-In</u>	Logged by:	Jena Alfaro
	Matrix: <u>SoilGas</u>		

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample/Temp Blank temperature	Temp:		NA <input checked="" type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

 Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 1603047 **Amended:** 03/21/2016

Report Created for: AEI Consultants

2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597

Project Contact: Jonathan Sanders

Project P.O.: 103821

Project Name: 345989; Lucasey

Project Received: 03/02/2016

Analytical Report reviewed & approved for release on 03/08/2016 by:

Angela Rydelius,
Laboratory Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.





Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 345989; Lucasey
WorkOrder: 1603047

Glossary Abbreviation

95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test
DUP	Duplicate
EDL	Estimated Detection Limit
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)



Glossary of Terms & Qualifier Definitions

Client: AEI Consultants
Project: 345989; Lucasey
WorkOrder: 1603047

Analytical Qualifiers

J Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
a3 sample diluted due to high organic content.
a9 reporting limit near, but not identical to, our standard reporting limit due to variable Encore/Solid sample weight
b1 aqueous sample that contains greater than ~1 vol. % sediment
b6 lighter than water immiscible sheen/product is present

Quality Control Qualifiers

F2 LCS recovery for this compound is outside of acceptance limits.
F3 the surrogate standard recovery and/or RPD is outside of acceptance limits.



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-27-3	1603047-023A	Soil	03/01/2016 14:10	GC16	117488
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.0087	1	03/04/2016 16:10	
Bromodichloromethane	ND	0.0087	1	03/04/2016 16:10	
Carbon Tetrachloride	ND	0.0087	1	03/04/2016 16:10	
Chlorobenzene	ND	0.0087	1	03/04/2016 16:10	
Chloroethane	ND	0.0087	1	03/04/2016 16:10	
Chloroform	ND	0.0087	1	03/04/2016 16:10	
Chloromethane	ND	0.0087	1	03/04/2016 16:10	
2-Chlorotoluene	ND	0.0087	1	03/04/2016 16:10	
4-Chlorotoluene	ND	0.0087	1	03/04/2016 16:10	
Dibromochloromethane	ND	0.0087	1	03/04/2016 16:10	
1,2-Dibromo-3-chloropropane	ND	0.0069	1	03/04/2016 16:10	
1,2-Dichlorobenzene	ND	0.0087	1	03/04/2016 16:10	
1,3-Dichlorobenzene	ND	0.0087	1	03/04/2016 16:10	
1,4-Dichlorobenzene	ND	0.0087	1	03/04/2016 16:10	
Dichlorodifluoromethane	ND	0.0087	1	03/04/2016 16:10	
1,1-Dichloroethane	ND	0.0087	1	03/04/2016 16:10	
1,2-Dichloroethane (1,2-DCA)	ND	0.0087	1	03/04/2016 16:10	
1,1-Dichloroethene	ND	0.0087	1	03/04/2016 16:10	
cis-1,2-Dichloroethene	ND	0.0087	1	03/04/2016 16:10	
trans-1,2-Dichloroethene	ND	0.0087	1	03/04/2016 16:10	
1,2-Dichloropropane	ND	0.0087	1	03/04/2016 16:10	
1,3-Dichloropropane	ND	0.0087	1	03/04/2016 16:10	
2,2-Dichloropropane	ND	0.0087	1	03/04/2016 16:10	
1,1-Dichloropropene	ND	0.0087	1	03/04/2016 16:10	
cis-1,3-Dichloropropene	ND	0.0087	1	03/04/2016 16:10	
trans-1,3-Dichloropropene	ND	0.0087	1	03/04/2016 16:10	
Freon 113	ND	0.0087	1	03/04/2016 16:10	
Hexachlorobutadiene	ND	0.0087	1	03/04/2016 16:10	
Hexachloroethane	ND	0.0087	1	03/04/2016 16:10	
Methylene chloride	ND	0.0087	1	03/04/2016 16:10	
1,1,1,2-Tetrachloroethane	ND	0.0087	1	03/04/2016 16:10	
1,1,2,2-Tetrachloroethane	ND	0.0087	1	03/04/2016 16:10	
Tetrachloroethene	ND	0.0087	1	03/04/2016 16:10	
1,2,3-Trichlorobenzene	ND	0.0087	1	03/04/2016 16:10	
1,2,4-Trichlorobenzene	ND	0.0087	1	03/04/2016 16:10	
1,1,1-Trichloroethane	ND	0.0087	1	03/04/2016 16:10	
1,1,2-Trichloroethane	ND	0.0087	1	03/04/2016 16:10	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-27-3	1603047-023A	Soil	03/01/2016 14:10	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0087	1	03/04/2016 16:10
Trichlorofluoromethane	ND	0.0087	1	03/04/2016 16:10
1,2,3-Trichloropropane	ND	0.0087	1	03/04/2016 16:10
Vinyl Chloride	ND	0.0087	1	03/04/2016 16:10
Surrogates	REC (%)	Limits		Date Analyzed
Dibromofluoromethane	86	70-130		03/04/2016 16:10
Toluene-d8	97	70-130		03/04/2016 16:10
4-BFB	94	70-130		03/04/2016 16:10
Benzene-d6	81	60-140		03/04/2016 16:10
Ethylbenzene-d10	92	60-140		03/04/2016 16:10
1,2-DCB-d4	71	60-140		03/04/2016 16:10

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-27-7	1603047-025A	Soil	03/01/2016 14:18	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Bromochloromethane	ND	0.0082	1	03/04/2016 16:50
Bromodichloromethane	ND	0.0082	1	03/04/2016 16:50
Carbon Tetrachloride	ND	0.0082	1	03/04/2016 16:50
Chlorobenzene	ND	0.0082	1	03/04/2016 16:50
Chloroethane	ND	0.0082	1	03/04/2016 16:50
Chloroform	ND	0.0082	1	03/04/2016 16:50
Chloromethane	ND	0.0082	1	03/04/2016 16:50
2-Chlorotoluene	ND	0.0082	1	03/04/2016 16:50
4-Chlorotoluene	ND	0.0082	1	03/04/2016 16:50
Dibromochloromethane	ND	0.0082	1	03/04/2016 16:50
1,2-Dibromo-3-chloropropane	ND	0.0066	1	03/04/2016 16:50
1,2-Dichlorobenzene	ND	0.0082	1	03/04/2016 16:50
1,3-Dichlorobenzene	ND	0.0082	1	03/04/2016 16:50
1,4-Dichlorobenzene	ND	0.0082	1	03/04/2016 16:50
Dichlorodifluoromethane	ND	0.0082	1	03/04/2016 16:50
1,1-Dichloroethane	ND	0.0082	1	03/04/2016 16:50
1,2-Dichloroethane (1,2-DCA)	ND	0.0082	1	03/04/2016 16:50
1,1-Dichloroethene	ND	0.0082	1	03/04/2016 16:50
cis-1,2-Dichloroethene	ND	0.0082	1	03/04/2016 16:50
trans-1,2-Dichloroethene	ND	0.0082	1	03/04/2016 16:50
1,2-Dichloropropane	ND	0.0082	1	03/04/2016 16:50
1,3-Dichloropropane	ND	0.0082	1	03/04/2016 16:50
2,2-Dichloropropane	ND	0.0082	1	03/04/2016 16:50
1,1-Dichloropropene	ND	0.0082	1	03/04/2016 16:50
cis-1,3-Dichloropropene	ND	0.0082	1	03/04/2016 16:50
trans-1,3-Dichloropropene	ND	0.0082	1	03/04/2016 16:50
Freon 113	ND	0.0082	1	03/04/2016 16:50
Hexachlorobutadiene	ND	0.0082	1	03/04/2016 16:50
Hexachloroethane	ND	0.0082	1	03/04/2016 16:50
Methylene chloride	ND	0.0082	1	03/04/2016 16:50
1,1,1,2-Tetrachloroethane	ND	0.0082	1	03/04/2016 16:50
1,1,2,2-Tetrachloroethane	ND	0.0082	1	03/04/2016 16:50
Tetrachloroethene	ND	0.0082	1	03/04/2016 16:50
1,2,3-Trichlorobenzene	ND	0.0082	1	03/04/2016 16:50
1,2,4-Trichlorobenzene	ND	0.0082	1	03/04/2016 16:50
1,1,1-Trichloroethane	ND	0.0082	1	03/04/2016 16:50
1,1,2-Trichloroethane	ND	0.0082	1	03/04/2016 16:50

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-27-7	1603047-025A	Soil	03/01/2016 14:18	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0082	1	03/04/2016 16:50
Trichlorofluoromethane	ND	0.0082	1	03/04/2016 16:50
1,2,3-Trichloropropane	ND	0.0082	1	03/04/2016 16:50
Vinyl Chloride	ND	0.0082	1	03/04/2016 16:50
Surrogates	REC (%)	Limits		Date Analyzed
Dibromofluoromethane	86	70-130		03/04/2016 16:50
Toluene-d8	94	70-130		03/04/2016 16:50
4-BFB	98	70-130		03/04/2016 16:50
Benzene-d6	84	60-140		03/04/2016 16:50
Ethylbenzene-d10	102	60-140		03/04/2016 16:50
1,2-DCB-d4	74	60-140		03/04/2016 16:50

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-30-2	1603047-046A	Soil	03/01/2016 15:40	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Bromochloromethane	ND	0.0079	1	03/04/2016 19:32
Bromodichloromethane	ND	0.0079	1	03/04/2016 19:32
Carbon Tetrachloride	ND	0.0079	1	03/04/2016 19:32
Chlorobenzene	ND	0.0079	1	03/04/2016 19:32
Chloroethane	ND	0.0079	1	03/04/2016 19:32
Chloroform	ND	0.0079	1	03/04/2016 19:32
Chloromethane	ND	0.0079	1	03/04/2016 19:32
2-Chlorotoluene	ND	0.0079	1	03/04/2016 19:32
4-Chlorotoluene	ND	0.0079	1	03/04/2016 19:32
Dibromochloromethane	ND	0.0079	1	03/04/2016 19:32
1,2-Dibromo-3-chloropropane	ND	0.0063	1	03/04/2016 19:32
1,2-Dichlorobenzene	ND	0.0079	1	03/04/2016 19:32
1,3-Dichlorobenzene	ND	0.0079	1	03/04/2016 19:32
1,4-Dichlorobenzene	ND	0.0079	1	03/04/2016 19:32
Dichlorodifluoromethane	ND	0.0079	1	03/04/2016 19:32
1,1-Dichloroethane	ND	0.0079	1	03/04/2016 19:32
1,2-Dichloroethane (1,2-DCA)	ND	0.0079	1	03/04/2016 19:32
1,1-Dichloroethene	ND	0.0079	1	03/04/2016 19:32
cis-1,2-Dichloroethene	ND	0.0079	1	03/04/2016 19:32
trans-1,2-Dichloroethene	ND	0.0079	1	03/04/2016 19:32
1,2-Dichloropropane	ND	0.0079	1	03/04/2016 19:32
1,3-Dichloropropane	ND	0.0079	1	03/04/2016 19:32
2,2-Dichloropropane	ND	0.0079	1	03/04/2016 19:32
1,1-Dichloropropene	ND	0.0079	1	03/04/2016 19:32
cis-1,3-Dichloropropene	ND	0.0079	1	03/04/2016 19:32
trans-1,3-Dichloropropene	ND	0.0079	1	03/04/2016 19:32
Freon 113	ND	0.0079	1	03/04/2016 19:32
Hexachlorobutadiene	ND	0.0079	1	03/04/2016 19:32
Hexachloroethane	ND	0.0079	1	03/04/2016 19:32
Methylene chloride	ND	0.0079	1	03/04/2016 19:32
1,1,1,2-Tetrachloroethane	ND	0.0079	1	03/04/2016 19:32
1,1,2,2-Tetrachloroethane	ND	0.0079	1	03/04/2016 19:32
Tetrachloroethene	ND	0.0079	1	03/04/2016 19:32
1,2,3-Trichlorobenzene	ND	0.0079	1	03/04/2016 19:32
1,2,4-Trichlorobenzene	ND	0.0079	1	03/04/2016 19:32
1,1,1-Trichloroethane	ND	0.0079	1	03/04/2016 19:32
1,1,2-Trichloroethane	ND	0.0079	1	03/04/2016 19:32

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-30-2	1603047-046A	Soil	03/01/2016 15:40	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0079	1	03/04/2016 19:32
Trichlorofluoromethane	ND	0.0079	1	03/04/2016 19:32
1,2,3-Trichloropropane	ND	0.0079	1	03/04/2016 19:32
Vinyl Chloride	ND	0.0079	1	03/04/2016 19:32
Surrogates	REC (%)	Limits		Date Analyzed
Dibromofluoromethane	85	70-130		03/04/2016 19:32
Toluene-d8	94	70-130		03/04/2016 19:32
4-BFB	93	70-130		03/04/2016 19:32
Benzene-d6	84	60-140		03/04/2016 19:32
Ethylbenzene-d10	105	60-140		03/04/2016 19:32
1,2-DCB-d4	72	60-140		03/04/2016 19:32

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-30-11	1603047-048A	Soil	03/01/2016 15:02	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Bromochloromethane	ND	0.0092	1	03/04/2016 20:51
Bromodichloromethane	ND	0.0092	1	03/04/2016 20:51
Carbon Tetrachloride	ND	0.0092	1	03/04/2016 20:51
Chlorobenzene	ND	0.0092	1	03/04/2016 20:51
Chloroethane	ND	0.0092	1	03/04/2016 20:51
Chloroform	ND	0.0092	1	03/04/2016 20:51
Chloromethane	ND	0.0092	1	03/04/2016 20:51
2-Chlorotoluene	ND	0.0092	1	03/04/2016 20:51
4-Chlorotoluene	ND	0.0092	1	03/04/2016 20:51
Dibromochloromethane	ND	0.0092	1	03/04/2016 20:51
1,2-Dibromo-3-chloropropane	ND	0.0073	1	03/04/2016 20:51
1,2-Dichlorobenzene	ND	0.0092	1	03/04/2016 20:51
1,3-Dichlorobenzene	ND	0.0092	1	03/04/2016 20:51
1,4-Dichlorobenzene	ND	0.0092	1	03/04/2016 20:51
Dichlorodifluoromethane	ND	0.0092	1	03/04/2016 20:51
1,1-Dichloroethane	ND	0.0092	1	03/04/2016 20:51
1,2-Dichloroethane (1,2-DCA)	ND	0.0092	1	03/04/2016 20:51
1,1-Dichloroethene	ND	0.0092	1	03/04/2016 20:51
cis-1,2-Dichloroethene	ND	0.0092	1	03/04/2016 20:51
trans-1,2-Dichloroethene	ND	0.0092	1	03/04/2016 20:51
1,2-Dichloropropane	ND	0.0092	1	03/04/2016 20:51
1,3-Dichloropropane	ND	0.0092	1	03/04/2016 20:51
2,2-Dichloropropane	ND	0.0092	1	03/04/2016 20:51
1,1-Dichloropropene	ND	0.0092	1	03/04/2016 20:51
cis-1,3-Dichloropropene	ND	0.0092	1	03/04/2016 20:51
trans-1,3-Dichloropropene	ND	0.0092	1	03/04/2016 20:51
Freon 113	ND	0.0092	1	03/04/2016 20:51
Hexachlorobutadiene	ND	0.0092	1	03/04/2016 20:51
Hexachloroethane	ND	0.0092	1	03/04/2016 20:51
Methylene chloride	ND	0.0092	1	03/04/2016 20:51
1,1,1,2-Tetrachloroethane	ND	0.0092	1	03/04/2016 20:51
1,1,2,2-Tetrachloroethane	ND	0.0092	1	03/04/2016 20:51
Tetrachloroethene	ND	0.0092	1	03/04/2016 20:51
1,2,3-Trichlorobenzene	ND	0.0092	1	03/04/2016 20:51
1,2,4-Trichlorobenzene	ND	0.0092	1	03/04/2016 20:51
1,1,1-Trichloroethane	ND	0.0092	1	03/04/2016 20:51
1,1,2-Trichloroethane	ND	0.0092	1	03/04/2016 20:51

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-30-11	1603047-048A	Soil	03/01/2016 15:02	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0092	1	03/04/2016 20:51
Trichlorofluoromethane	ND	0.0092	1	03/04/2016 20:51
1,2,3-Trichloropropane	ND	0.0092	1	03/04/2016 20:51
Vinyl Chloride	ND	0.0092	1	03/04/2016 20:51
Surrogates	REC (%)	Limits		Date Analyzed
Dibromofluoromethane	86	70-130		03/04/2016 20:51
Toluene-d8	94	70-130		03/04/2016 20:51
4-BFB	97	70-130		03/04/2016 20:51
Benzene-d6	84	60-140		03/04/2016 20:51
Ethylbenzene-d10	102	60-140		03/04/2016 20:51
1,2-DCB-d4	74	60-140		03/04/2016 20:51

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-31-2	1603047-049A	Soil	03/01/2016 16:29	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Bromochloromethane	ND	0.0093	1	03/04/2016 21:31
Bromodichloromethane	ND	0.0093	1	03/04/2016 21:31
Carbon Tetrachloride	ND	0.0093	1	03/04/2016 21:31
Chlorobenzene	ND	0.0093	1	03/04/2016 21:31
Chloroethane	ND	0.0093	1	03/04/2016 21:31
Chloroform	ND	0.0093	1	03/04/2016 21:31
Chloromethane	ND	0.0093	1	03/04/2016 21:31
2-Chlorotoluene	ND	0.0093	1	03/04/2016 21:31
4-Chlorotoluene	ND	0.0093	1	03/04/2016 21:31
Dibromochloromethane	ND	0.0093	1	03/04/2016 21:31
1,2-Dibromo-3-chloropropane	ND	0.0074	1	03/04/2016 21:31
1,2-Dichlorobenzene	ND	0.0093	1	03/04/2016 21:31
1,3-Dichlorobenzene	ND	0.0093	1	03/04/2016 21:31
1,4-Dichlorobenzene	ND	0.0093	1	03/04/2016 21:31
Dichlorodifluoromethane	ND	0.0093	1	03/04/2016 21:31
1,1-Dichloroethane	ND	0.0093	1	03/04/2016 21:31
1,2-Dichloroethane (1,2-DCA)	ND	0.0093	1	03/04/2016 21:31
1,1-Dichloroethene	ND	0.0093	1	03/04/2016 21:31
cis-1,2-Dichloroethene	ND	0.0093	1	03/04/2016 21:31
trans-1,2-Dichloroethene	ND	0.0093	1	03/04/2016 21:31
1,2-Dichloropropane	ND	0.0093	1	03/04/2016 21:31
1,3-Dichloropropane	ND	0.0093	1	03/04/2016 21:31
2,2-Dichloropropane	ND	0.0093	1	03/04/2016 21:31
1,1-Dichloropropene	ND	0.0093	1	03/04/2016 21:31
cis-1,3-Dichloropropene	ND	0.0093	1	03/04/2016 21:31
trans-1,3-Dichloropropene	ND	0.0093	1	03/04/2016 21:31
Freon 113	ND	0.0093	1	03/04/2016 21:31
Hexachlorobutadiene	ND	0.0093	1	03/04/2016 21:31
Hexachloroethane	ND	0.0093	1	03/04/2016 21:31
Methylene chloride	ND	0.0093	1	03/04/2016 21:31
1,1,1,2-Tetrachloroethane	ND	0.0093	1	03/04/2016 21:31
1,1,2,2-Tetrachloroethane	ND	0.0093	1	03/04/2016 21:31
Tetrachloroethene	ND	0.0093	1	03/04/2016 21:31
1,2,3-Trichlorobenzene	ND	0.0093	1	03/04/2016 21:31
1,2,4-Trichlorobenzene	ND	0.0093	1	03/04/2016 21:31
1,1,1-Trichloroethane	ND	0.0093	1	03/04/2016 21:31
1,1,2-Trichloroethane	ND	0.0093	1	03/04/2016 21:31

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/2/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg

Volatile Organics by P&T and GC/MS (Basic Target List) [Encore Sampling]

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-31-2	1603047-049A	Soil	03/01/2016 16:29	GC16	117488

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0093	1	03/04/2016 21:31
Trichlorofluoromethane	ND	0.0093	1	03/04/2016 21:31
1,2,3-Trichloropropane	ND	0.0093	1	03/04/2016 21:31
Vinyl Chloride	ND	0.0093	1	03/04/2016 21:31
Surrogates	REC (%)	Limits		Date Analyzed
Dibromofluoromethane	85	70-130		03/04/2016 21:31
Toluene-d8	93	70-130		03/04/2016 21:31
4-BFB	87	70-130		03/04/2016 21:31
Benzene-d6	79	60-140		03/04/2016 21:31
Ethylbenzene-d10	98	60-140		03/04/2016 21:31
1,2-DCB-d4	70	60-140		03/04/2016 21:31

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-25-1.5	1603047-009A	Soil	03/01/2016 13:25	GC10	117758
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.0085	1	03/09/2016 20:43	
Bromodichloromethane	ND	0.0085	1	03/09/2016 20:43	
Carbon Tetrachloride	ND	0.0085	1	03/09/2016 20:43	
Chlorobenzene	ND	0.0085	1	03/09/2016 20:43	
Chloroethane	ND	0.0085	1	03/09/2016 20:43	
Chloroform	ND	0.0085	1	03/09/2016 20:43	
Chloromethane	ND	0.0085	1	03/09/2016 20:43	
2-Chlorotoluene	ND	0.0085	1	03/09/2016 20:43	
4-Chlorotoluene	ND	0.0085	1	03/09/2016 20:43	
Dibromochloromethane	ND	0.0085	1	03/09/2016 20:43	
1,2-Dibromo-3-chloropropane	ND	0.0068	1	03/09/2016 20:43	
1,2-Dichlorobenzene	ND	0.0085	1	03/09/2016 20:43	
1,3-Dichlorobenzene	ND	0.0085	1	03/09/2016 20:43	
1,4-Dichlorobenzene	ND	0.0085	1	03/09/2016 20:43	
Dichlorodifluoromethane	ND	0.0085	1	03/09/2016 20:43	
1,1-Dichloroethane	ND	0.0085	1	03/09/2016 20:43	
1,2-Dichloroethane (1,2-DCA)	ND	0.0068	1	03/09/2016 20:43	
1,1-Dichloroethene	ND	0.0085	1	03/09/2016 20:43	
cis-1,2-Dichloroethene	ND	0.0085	1	03/09/2016 20:43	
trans-1,2-Dichloroethene	ND	0.0085	1	03/09/2016 20:43	
1,2-Dichloropropane	ND	0.0085	1	03/09/2016 20:43	
1,3-Dichloropropane	ND	0.0085	1	03/09/2016 20:43	
2,2-Dichloropropane	ND	0.0085	1	03/09/2016 20:43	
1,1-Dichloropropene	ND	0.0085	1	03/09/2016 20:43	
cis-1,3-Dichloropropene	ND	0.0085	1	03/09/2016 20:43	
trans-1,3-Dichloropropene	ND	0.0085	1	03/09/2016 20:43	
Freon 113	ND	0.0085	1	03/09/2016 20:43	
Hexachlorobutadiene	ND	0.0085	1	03/09/2016 20:43	
Hexachloroethane	ND	0.0085	1	03/09/2016 20:43	
Methylene chloride	ND	0.0085	1	03/09/2016 20:43	
1,1,1,2-Tetrachloroethane	ND	0.0085	1	03/09/2016 20:43	
1,1,2,2-Tetrachloroethane	ND	0.0085	1	03/09/2016 20:43	
Tetrachloroethene	ND	0.0085	1	03/09/2016 20:43	
1,2,3-Trichlorobenzene	ND	0.0085	1	03/09/2016 20:43	
1,2,4-Trichlorobenzene	ND	0.0085	1	03/09/2016 20:43	
1,1,1-Trichloroethane	ND	0.0085	1	03/09/2016 20:43	
1,1,2-Trichloroethane	ND	0.0085	1	03/09/2016 20:43	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-25-1.5	1603047-009A	Soil	03/01/2016 13:25	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0085	1	03/09/2016 20:43
Trichlorofluoromethane	ND	0.0085	1	03/09/2016 20:43
1,2,3-Trichloropropane	ND	0.0085	1	03/09/2016 20:43
Vinyl Chloride	ND	0.0085	1	03/09/2016 20:43
Surrogates	REC (%)	Limits		Date Analyzed
Dibromofluoromethane	84	70-130		03/09/2016 20:43
Toluene-d8	97	70-130		03/09/2016 20:43
4-BFB	88	70-130		03/09/2016 20:43
Benzene-d6	82	60-140		03/09/2016 20:43
Ethylbenzene-d10	107	60-140		03/09/2016 20:43
1,2-DCB-d4	88	60-140		03/09/2016 20:43

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-25-5	1603047-011A	Soil	03/01/2016 13:25	GC10	117758
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.0083	1	03/09/2016 21:23	
Bromodichloromethane	ND	0.0083	1	03/09/2016 21:23	
Carbon Tetrachloride	ND	0.0083	1	03/09/2016 21:23	
Chlorobenzene	ND	0.0083	1	03/09/2016 21:23	
Chloroethane	ND	0.0083	1	03/09/2016 21:23	
Chloroform	ND	0.0083	1	03/09/2016 21:23	
Chloromethane	ND	0.0083	1	03/09/2016 21:23	
2-Chlorotoluene	ND	0.0083	1	03/09/2016 21:23	
4-Chlorotoluene	ND	0.0083	1	03/09/2016 21:23	
Dibromochloromethane	ND	0.0083	1	03/09/2016 21:23	
1,2-Dibromo-3-chloropropane	ND	0.0066	1	03/09/2016 21:23	
1,2-Dichlorobenzene	ND	0.0083	1	03/09/2016 21:23	
1,3-Dichlorobenzene	ND	0.0083	1	03/09/2016 21:23	
1,4-Dichlorobenzene	ND	0.0083	1	03/09/2016 21:23	
Dichlorodifluoromethane	ND	0.0083	1	03/09/2016 21:23	
1,1-Dichloroethane	ND	0.0083	1	03/09/2016 21:23	
1,2-Dichloroethane (1,2-DCA)	ND	0.0066	1	03/09/2016 21:23	
1,1-Dichloroethene	ND	0.0083	1	03/09/2016 21:23	
cis-1,2-Dichloroethene	ND	0.0083	1	03/09/2016 21:23	
trans-1,2-Dichloroethene	ND	0.0083	1	03/09/2016 21:23	
1,2-Dichloropropane	ND	0.0083	1	03/09/2016 21:23	
1,3-Dichloropropane	ND	0.0083	1	03/09/2016 21:23	
2,2-Dichloropropane	ND	0.0083	1	03/09/2016 21:23	
1,1-Dichloropropene	ND	0.0083	1	03/09/2016 21:23	
cis-1,3-Dichloropropene	ND	0.0083	1	03/09/2016 21:23	
trans-1,3-Dichloropropene	ND	0.0083	1	03/09/2016 21:23	
Freon 113	ND	0.0083	1	03/09/2016 21:23	
Hexachlorobutadiene	ND	0.0083	1	03/09/2016 21:23	
Hexachloroethane	ND	0.0083	1	03/09/2016 21:23	
Methylene chloride	ND	0.0083	1	03/09/2016 21:23	
1,1,1,2-Tetrachloroethane	ND	0.0083	1	03/09/2016 21:23	
1,1,2,2-Tetrachloroethane	ND	0.0083	1	03/09/2016 21:23	
Tetrachloroethene	ND	0.0083	1	03/09/2016 21:23	
1,2,3-Trichlorobenzene	ND	0.0083	1	03/09/2016 21:23	
1,2,4-Trichlorobenzene	ND	0.0083	1	03/09/2016 21:23	
1,1,1-Trichloroethane	ND	0.0083	1	03/09/2016 21:23	
1,1,2-Trichloroethane	ND	0.0083	1	03/09/2016 21:23	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-25-5	1603047-011A	Soil	03/01/2016 13:25	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0083	1	03/09/2016 21:23
Trichlorofluoromethane	ND	0.0083	1	03/09/2016 21:23
1,2,3-Trichloropropane	ND	0.0083	1	03/09/2016 21:23
Vinyl Chloride	ND	0.0083	1	03/09/2016 21:23
Surrogates	REC (%)	Limits		
Dibromofluoromethane	83	70-130		03/09/2016 21:23
Toluene-d8	98	70-130		03/09/2016 21:23
4-BFB	88	70-130		03/09/2016 21:23
Benzene-d6	84	60-140		03/09/2016 21:23
Ethylbenzene-d10	108	60-140		03/09/2016 21:23
1,2-DCB-d4	88	60-140		03/09/2016 21:23

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-26-5	1603047-017A	Soil	03/01/2016 12:46	GC10	117758
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.0086	1	03/09/2016 22:03	
Bromodichloromethane	ND	0.0086	1	03/09/2016 22:03	
Carbon Tetrachloride	ND	0.0086	1	03/09/2016 22:03	
Chlorobenzene	ND	0.0086	1	03/09/2016 22:03	
Chloroethane	ND	0.0086	1	03/09/2016 22:03	
Chloroform	ND	0.0086	1	03/09/2016 22:03	
Chloromethane	ND	0.0086	1	03/09/2016 22:03	
2-Chlorotoluene	ND	0.0086	1	03/09/2016 22:03	
4-Chlorotoluene	ND	0.0086	1	03/09/2016 22:03	
Dibromochloromethane	ND	0.0086	1	03/09/2016 22:03	
1,2-Dibromo-3-chloropropane	ND	0.0068	1	03/09/2016 22:03	
1,2-Dichlorobenzene	ND	0.0086	1	03/09/2016 22:03	
1,3-Dichlorobenzene	ND	0.0086	1	03/09/2016 22:03	
1,4-Dichlorobenzene	ND	0.0086	1	03/09/2016 22:03	
Dichlorodifluoromethane	ND	0.0086	1	03/09/2016 22:03	
1,1-Dichloroethane	ND	0.0086	1	03/09/2016 22:03	
1,2-Dichloroethane (1,2-DCA)	ND	0.0068	1	03/09/2016 22:03	
1,1-Dichloroethene	ND	0.0086	1	03/09/2016 22:03	
cis-1,2-Dichloroethene	ND	0.0086	1	03/09/2016 22:03	
trans-1,2-Dichloroethene	ND	0.0086	1	03/09/2016 22:03	
1,2-Dichloropropane	ND	0.0086	1	03/09/2016 22:03	
1,3-Dichloropropane	ND	0.0086	1	03/09/2016 22:03	
2,2-Dichloropropane	ND	0.0086	1	03/09/2016 22:03	
1,1-Dichloropropene	ND	0.0086	1	03/09/2016 22:03	
cis-1,3-Dichloropropene	ND	0.0086	1	03/09/2016 22:03	
trans-1,3-Dichloropropene	ND	0.0086	1	03/09/2016 22:03	
Freon 113	ND	0.0086	1	03/09/2016 22:03	
Hexachlorobutadiene	ND	0.0086	1	03/09/2016 22:03	
Hexachloroethane	ND	0.0086	1	03/09/2016 22:03	
Methylene chloride	ND	0.0086	1	03/09/2016 22:03	
1,1,1,2-Tetrachloroethane	ND	0.0086	1	03/09/2016 22:03	
1,1,2,2-Tetrachloroethane	ND	0.0086	1	03/09/2016 22:03	
Tetrachloroethene	ND	0.0086	1	03/09/2016 22:03	
1,2,3-Trichlorobenzene	ND	0.0086	1	03/09/2016 22:03	
1,2,4-Trichlorobenzene	ND	0.0086	1	03/09/2016 22:03	
1,1,1-Trichloroethane	ND	0.0086	1	03/09/2016 22:03	
1,1,2-Trichloroethane	ND	0.0086	1	03/09/2016 22:03	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-26-5	1603047-017A	Soil	03/01/2016 12:46	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0086	1	03/09/2016 22:03
Trichlorofluoromethane	ND	0.0086	1	03/09/2016 22:03
1,2,3-Trichloropropane	ND	0.0086	1	03/09/2016 22:03
Vinyl Chloride	ND	0.0086	1	03/09/2016 22:03
Surrogates	REC (%)	Limits		
Dibromofluoromethane	85	70-130		03/09/2016 22:03
Toluene-d8	98	70-130		03/09/2016 22:03
4-BFB	88	70-130		03/09/2016 22:03
Benzene-d6	85	60-140		03/09/2016 22:03
Ethylbenzene-d10	109	60-140		03/09/2016 22:03
1,2-DCB-d4	90	60-140		03/09/2016 22:03

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-26-9	1603047-019A	Soil	03/01/2016 13:00	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Bromochloromethane	ND	0.0086	1	03/09/2016 22:43
Bromodichloromethane	ND	0.0086	1	03/09/2016 22:43
Carbon Tetrachloride	ND	0.0086	1	03/09/2016 22:43
Chlorobenzene	ND	0.0086	1	03/09/2016 22:43
Chloroethane	ND	0.0086	1	03/09/2016 22:43
Chloroform	ND	0.0086	1	03/09/2016 22:43
Chloromethane	ND	0.0086	1	03/09/2016 22:43
2-Chlorotoluene	ND	0.0086	1	03/09/2016 22:43
4-Chlorotoluene	ND	0.0086	1	03/09/2016 22:43
Dibromochloromethane	ND	0.0086	1	03/09/2016 22:43
1,2-Dibromo-3-chloropropane	ND	0.0069	1	03/09/2016 22:43
1,2-Dichlorobenzene	ND	0.0086	1	03/09/2016 22:43
1,3-Dichlorobenzene	ND	0.0086	1	03/09/2016 22:43
1,4-Dichlorobenzene	ND	0.0086	1	03/09/2016 22:43
Dichlorodifluoromethane	ND	0.0086	1	03/09/2016 22:43
1,1-Dichloroethane	ND	0.0086	1	03/09/2016 22:43
1,2-Dichloroethane (1,2-DCA)	ND	0.0069	1	03/09/2016 22:43
1,1-Dichloroethene	ND	0.0086	1	03/09/2016 22:43
cis-1,2-Dichloroethene	ND	0.0086	1	03/09/2016 22:43
trans-1,2-Dichloroethene	ND	0.0086	1	03/09/2016 22:43
1,2-Dichloropropane	ND	0.0086	1	03/09/2016 22:43
1,3-Dichloropropane	ND	0.0086	1	03/09/2016 22:43
2,2-Dichloropropane	ND	0.0086	1	03/09/2016 22:43
1,1-Dichloropropene	ND	0.0086	1	03/09/2016 22:43
cis-1,3-Dichloropropene	ND	0.0086	1	03/09/2016 22:43
trans-1,3-Dichloropropene	ND	0.0086	1	03/09/2016 22:43
Freon 113	ND	0.0086	1	03/09/2016 22:43
Hexachlorobutadiene	ND	0.0086	1	03/09/2016 22:43
Hexachloroethane	ND	0.0086	1	03/09/2016 22:43
Methylene chloride	ND	0.0086	1	03/09/2016 22:43
1,1,1,2-Tetrachloroethane	ND	0.0086	1	03/09/2016 22:43
1,1,2,2-Tetrachloroethane	ND	0.0086	1	03/09/2016 22:43
Tetrachloroethene	ND	0.0086	1	03/09/2016 22:43
1,2,3-Trichlorobenzene	ND	0.0086	1	03/09/2016 22:43
1,2,4-Trichlorobenzene	ND	0.0086	1	03/09/2016 22:43
1,1,1-Trichloroethane	ND	0.0086	1	03/09/2016 22:43
1,1,2-Trichloroethane	ND	0.0086	1	03/09/2016 22:43

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-26-9	1603047-019A	Soil	03/01/2016 13:00	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0086	1	03/09/2016 22:43
Trichlorofluoromethane	ND	0.0086	1	03/09/2016 22:43
1,2,3-Trichloropropane	ND	0.0086	1	03/09/2016 22:43
Vinyl Chloride	ND	0.0086	1	03/09/2016 22:43
Surrogates	REC (%)	Limits		
Dibromofluoromethane	84	70-130		03/09/2016 22:43
Toluene-d8	99	70-130		03/09/2016 22:43
4-BFB	87	70-130		03/09/2016 22:43
Benzene-d6	84	60-140		03/09/2016 22:43
Ethylbenzene-d10	109	60-140		03/09/2016 22:43
1,2-DCB-d4	91	60-140		03/09/2016 22:43

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-28-1	1603047-030A	Soil	03/01/2016 11:15	GC10	117758
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.0080	1	03/09/2016 23:23	
Bromodichloromethane	ND	0.0080	1	03/09/2016 23:23	
Carbon Tetrachloride	ND	0.0080	1	03/09/2016 23:23	
Chlorobenzene	ND	0.0080	1	03/09/2016 23:23	
Chloroethane	ND	0.0080	1	03/09/2016 23:23	
Chloroform	ND	0.0080	1	03/09/2016 23:23	
Chloromethane	ND	0.0080	1	03/09/2016 23:23	
2-Chlorotoluene	ND	0.0080	1	03/09/2016 23:23	
4-Chlorotoluene	ND	0.0080	1	03/09/2016 23:23	
Dibromochloromethane	ND	0.0080	1	03/09/2016 23:23	
1,2-Dibromo-3-chloropropane	ND	0.0064	1	03/09/2016 23:23	
1,2-Dichlorobenzene	ND	0.0080	1	03/09/2016 23:23	
1,3-Dichlorobenzene	ND	0.0080	1	03/09/2016 23:23	
1,4-Dichlorobenzene	ND	0.0080	1	03/09/2016 23:23	
Dichlorodifluoromethane	ND	0.0080	1	03/09/2016 23:23	
1,1-Dichloroethane	ND	0.0080	1	03/09/2016 23:23	
1,2-Dichloroethane (1,2-DCA)	ND	0.0064	1	03/09/2016 23:23	
1,1-Dichloroethene	ND	0.0080	1	03/09/2016 23:23	
cis-1,2-Dichloroethene	ND	0.0080	1	03/09/2016 23:23	
trans-1,2-Dichloroethene	ND	0.0080	1	03/09/2016 23:23	
1,2-Dichloropropane	ND	0.0080	1	03/09/2016 23:23	
1,3-Dichloropropane	ND	0.0080	1	03/09/2016 23:23	
2,2-Dichloropropane	ND	0.0080	1	03/09/2016 23:23	
1,1-Dichloropropene	ND	0.0080	1	03/09/2016 23:23	
cis-1,3-Dichloropropene	ND	0.0080	1	03/09/2016 23:23	
trans-1,3-Dichloropropene	ND	0.0080	1	03/09/2016 23:23	
Freon 113	ND	0.0080	1	03/09/2016 23:23	
Hexachlorobutadiene	ND	0.0080	1	03/09/2016 23:23	
Hexachloroethane	ND	0.0080	1	03/09/2016 23:23	
Methylene chloride	ND	0.0080	1	03/09/2016 23:23	
1,1,1,2-Tetrachloroethane	ND	0.0080	1	03/09/2016 23:23	
1,1,2,2-Tetrachloroethane	ND	0.0080	1	03/09/2016 23:23	
Tetrachloroethene	ND	0.0080	1	03/09/2016 23:23	
1,2,3-Trichlorobenzene	ND	0.0080	1	03/09/2016 23:23	
1,2,4-Trichlorobenzene	ND	0.0080	1	03/09/2016 23:23	
1,1,1-Trichloroethane	ND	0.0080	1	03/09/2016 23:23	
1,1,2-Trichloroethane	ND	0.0080	1	03/09/2016 23:23	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-28-1	1603047-030A	Soil	03/01/2016 11:15	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0080	1	03/09/2016 23:23
Trichlorofluoromethane	ND	0.0080	1	03/09/2016 23:23
1,2,3-Trichloropropane	ND	0.0080	1	03/09/2016 23:23
Vinyl Chloride	ND	0.0080	1	03/09/2016 23:23
Surrogates	REC (%)	Limits		
Dibromofluoromethane	85	70-130		03/09/2016 23:23
Toluene-d8	98	70-130		03/09/2016 23:23
4-BFB	85	70-130		03/09/2016 23:23
Benzene-d6	83	60-140		03/09/2016 23:23
Ethylbenzene-d10	107	60-140		03/09/2016 23:23
1,2-DCB-d4	89	60-140		03/09/2016 23:23

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-28-5	1603047-032A	Soil	03/01/2016 11:30	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Bromochloromethane	ND	0.0089	1	03/10/2016 00:03
Bromodichloromethane	ND	0.0089	1	03/10/2016 00:03
Carbon Tetrachloride	ND	0.0089	1	03/10/2016 00:03
Chlorobenzene	ND	0.0089	1	03/10/2016 00:03
Chloroethane	ND	0.0089	1	03/10/2016 00:03
Chloroform	ND	0.0089	1	03/10/2016 00:03
Chloromethane	ND	0.0089	1	03/10/2016 00:03
2-Chlorotoluene	ND	0.0089	1	03/10/2016 00:03
4-Chlorotoluene	ND	0.0089	1	03/10/2016 00:03
Dibromochloromethane	ND	0.0089	1	03/10/2016 00:03
1,2-Dibromo-3-chloropropane	ND	0.0071	1	03/10/2016 00:03
1,2-Dichlorobenzene	ND	0.0089	1	03/10/2016 00:03
1,3-Dichlorobenzene	ND	0.0089	1	03/10/2016 00:03
1,4-Dichlorobenzene	ND	0.0089	1	03/10/2016 00:03
Dichlorodifluoromethane	ND	0.0089	1	03/10/2016 00:03
1,1-Dichloroethane	ND	0.0089	1	03/10/2016 00:03
1,2-Dichloroethane (1,2-DCA)	ND	0.0071	1	03/10/2016 00:03
1,1-Dichloroethene	ND	0.0089	1	03/10/2016 00:03
cis-1,2-Dichloroethene	ND	0.0089	1	03/10/2016 00:03
trans-1,2-Dichloroethene	ND	0.0089	1	03/10/2016 00:03
1,2-Dichloropropane	ND	0.0089	1	03/10/2016 00:03
1,3-Dichloropropane	ND	0.0089	1	03/10/2016 00:03
2,2-Dichloropropane	ND	0.0089	1	03/10/2016 00:03
1,1-Dichloropropene	ND	0.0089	1	03/10/2016 00:03
cis-1,3-Dichloropropene	ND	0.0089	1	03/10/2016 00:03
trans-1,3-Dichloropropene	ND	0.0089	1	03/10/2016 00:03
Freon 113	ND	0.0089	1	03/10/2016 00:03
Hexachlorobutadiene	ND	0.0089	1	03/10/2016 00:03
Hexachloroethane	ND	0.0089	1	03/10/2016 00:03
Methylene chloride	ND	0.0089	1	03/10/2016 00:03
1,1,1,2-Tetrachloroethane	ND	0.0089	1	03/10/2016 00:03
1,1,2,2-Tetrachloroethane	ND	0.0089	1	03/10/2016 00:03
Tetrachloroethene	ND	0.0089	1	03/10/2016 00:03
1,2,3-Trichlorobenzene	ND	0.0089	1	03/10/2016 00:03
1,2,4-Trichlorobenzene	ND	0.0089	1	03/10/2016 00:03
1,1,1-Trichloroethane	ND	0.0089	1	03/10/2016 00:03
1,1,2-Trichloroethane	ND	0.0089	1	03/10/2016 00:03

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-28-5	1603047-032A	Soil	03/01/2016 11:30	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0089	1	03/10/2016 00:03
Trichlorofluoromethane	ND	0.0089	1	03/10/2016 00:03
1,2,3-Trichloropropane	ND	0.0089	1	03/10/2016 00:03
Vinyl Chloride	ND	0.0089	1	03/10/2016 00:03
Surrogates	REC (%)	Limits		
Dibromofluoromethane	84	70-130		03/10/2016 00:03
Toluene-d8	99	70-130		03/10/2016 00:03
4-BFB	87	70-130		03/10/2016 00:03
Benzene-d6	87	60-140		03/10/2016 00:03
Ethylbenzene-d10	113	60-140		03/10/2016 00:03
1,2-DCB-d4	95	60-140		03/10/2016 00:03

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-29-1	1603047-038A	Soil	03/01/2016 14:42	GC10	117758
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.0088	1	03/10/2016 00:44	
Bromodichloromethane	ND	0.0088	1	03/10/2016 00:44	
Carbon Tetrachloride	ND	0.0088	1	03/10/2016 00:44	
Chlorobenzene	ND	0.0088	1	03/10/2016 00:44	
Chloroethane	ND	0.0088	1	03/10/2016 00:44	
Chloroform	ND	0.0088	1	03/10/2016 00:44	
Chloromethane	ND	0.0088	1	03/10/2016 00:44	
2-Chlorotoluene	ND	0.0088	1	03/10/2016 00:44	
4-Chlorotoluene	ND	0.0088	1	03/10/2016 00:44	
Dibromochloromethane	ND	0.0088	1	03/10/2016 00:44	
1,2-Dibromo-3-chloropropane	ND	0.0070	1	03/10/2016 00:44	
1,2-Dichlorobenzene	ND	0.0088	1	03/10/2016 00:44	
1,3-Dichlorobenzene	ND	0.0088	1	03/10/2016 00:44	
1,4-Dichlorobenzene	ND	0.0088	1	03/10/2016 00:44	
Dichlorodifluoromethane	ND	0.0088	1	03/10/2016 00:44	
1,1-Dichloroethane	ND	0.0088	1	03/10/2016 00:44	
1,2-Dichloroethane (1,2-DCA)	ND	0.0070	1	03/10/2016 00:44	
1,1-Dichloroethene	ND	0.0088	1	03/10/2016 00:44	
cis-1,2-Dichloroethene	ND	0.0088	1	03/10/2016 00:44	
trans-1,2-Dichloroethene	ND	0.0088	1	03/10/2016 00:44	
1,2-Dichloropropane	ND	0.0088	1	03/10/2016 00:44	
1,3-Dichloropropane	ND	0.0088	1	03/10/2016 00:44	
2,2-Dichloropropane	ND	0.0088	1	03/10/2016 00:44	
1,1-Dichloropropene	ND	0.0088	1	03/10/2016 00:44	
cis-1,3-Dichloropropene	ND	0.0088	1	03/10/2016 00:44	
trans-1,3-Dichloropropene	ND	0.0088	1	03/10/2016 00:44	
Freon 113	ND	0.0088	1	03/10/2016 00:44	
Hexachlorobutadiene	ND	0.0088	1	03/10/2016 00:44	
Hexachloroethane	ND	0.0088	1	03/10/2016 00:44	
Methylene chloride	ND	0.0088	1	03/10/2016 00:44	
1,1,1,2-Tetrachloroethane	ND	0.0088	1	03/10/2016 00:44	
1,1,2,2-Tetrachloroethane	ND	0.0088	1	03/10/2016 00:44	
Tetrachloroethene	ND	0.0088	1	03/10/2016 00:44	
1,2,3-Trichlorobenzene	ND	0.0088	1	03/10/2016 00:44	
1,2,4-Trichlorobenzene	ND	0.0088	1	03/10/2016 00:44	
1,1,1-Trichloroethane	ND	0.0088	1	03/10/2016 00:44	
1,1,2-Trichloroethane	ND	0.0088	1	03/10/2016 00:44	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-29-1	1603047-038A	Soil	03/01/2016 14:42	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0088	1	03/10/2016 00:44
Trichlorofluoromethane	ND	0.0088	1	03/10/2016 00:44
1,2,3-Trichloropropane	ND	0.0088	1	03/10/2016 00:44
Vinyl Chloride	ND	0.0088	1	03/10/2016 00:44
Surrogates	REC (%)	Limits		
Dibromofluoromethane	84	70-130		03/10/2016 00:44
Toluene-d8	99	70-130		03/10/2016 00:44
4-BFB	85	70-130		03/10/2016 00:44
Benzene-d6	84	60-140		03/10/2016 00:44
Ethylbenzene-d10	107	60-140		03/10/2016 00:44
1,2-DCB-d4	91	60-140		03/10/2016 00:44

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-29-5	1603047-040A	Soil	03/01/2016 14:48	GC10	117758
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.0083	1	03/10/2016 01:24	
Bromodichloromethane	ND	0.0083	1	03/10/2016 01:24	
Carbon Tetrachloride	ND	0.0083	1	03/10/2016 01:24	
Chlorobenzene	ND	0.0083	1	03/10/2016 01:24	
Chloroethane	ND	0.0083	1	03/10/2016 01:24	
Chloroform	ND	0.0083	1	03/10/2016 01:24	
Chloromethane	ND	0.0083	1	03/10/2016 01:24	
2-Chlorotoluene	ND	0.0083	1	03/10/2016 01:24	
4-Chlorotoluene	ND	0.0083	1	03/10/2016 01:24	
Dibromochloromethane	ND	0.0083	1	03/10/2016 01:24	
1,2-Dibromo-3-chloropropane	ND	0.0066	1	03/10/2016 01:24	
1,2-Dichlorobenzene	ND	0.0083	1	03/10/2016 01:24	
1,3-Dichlorobenzene	ND	0.0083	1	03/10/2016 01:24	
1,4-Dichlorobenzene	ND	0.0083	1	03/10/2016 01:24	
Dichlorodifluoromethane	ND	0.0083	1	03/10/2016 01:24	
1,1-Dichloroethane	ND	0.0083	1	03/10/2016 01:24	
1,2-Dichloroethane (1,2-DCA)	ND	0.0066	1	03/10/2016 01:24	
1,1-Dichloroethene	ND	0.0083	1	03/10/2016 01:24	
cis-1,2-Dichloroethene	ND	0.0083	1	03/10/2016 01:24	
trans-1,2-Dichloroethene	ND	0.0083	1	03/10/2016 01:24	
1,2-Dichloropropane	ND	0.0083	1	03/10/2016 01:24	
1,3-Dichloropropane	ND	0.0083	1	03/10/2016 01:24	
2,2-Dichloropropane	ND	0.0083	1	03/10/2016 01:24	
1,1-Dichloropropene	ND	0.0083	1	03/10/2016 01:24	
cis-1,3-Dichloropropene	ND	0.0083	1	03/10/2016 01:24	
trans-1,3-Dichloropropene	ND	0.0083	1	03/10/2016 01:24	
Freon 113	ND	0.0083	1	03/10/2016 01:24	
Hexachlorobutadiene	ND	0.0083	1	03/10/2016 01:24	
Hexachloroethane	ND	0.0083	1	03/10/2016 01:24	
Methylene chloride	ND	0.0083	1	03/10/2016 01:24	
1,1,1,2-Tetrachloroethane	ND	0.0083	1	03/10/2016 01:24	
1,1,2,2-Tetrachloroethane	ND	0.0083	1	03/10/2016 01:24	
Tetrachloroethene	ND	0.0083	1	03/10/2016 01:24	
1,2,3-Trichlorobenzene	ND	0.0083	1	03/10/2016 01:24	
1,2,4-Trichlorobenzene	ND	0.0083	1	03/10/2016 01:24	
1,1,1-Trichloroethane	ND	0.0083	1	03/10/2016 01:24	
1,1,2-Trichloroethane	ND	0.0083	1	03/10/2016 01:24	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-29-5	1603047-040A	Soil	03/01/2016 14:48	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0083	1	03/10/2016 01:24
Trichlorofluoromethane	ND	0.0083	1	03/10/2016 01:24
1,2,3-Trichloropropane	ND	0.0083	1	03/10/2016 01:24
Vinyl Chloride	ND	0.0083	1	03/10/2016 01:24
Surrogates	REC (%)	Limits		
Dibromofluoromethane	83	70-130		03/10/2016 01:24
Toluene-d8	97	70-130		03/10/2016 01:24
4-BFB	85	70-130		03/10/2016 01:24
Benzene-d6	85	60-140		03/10/2016 01:24
Ethylbenzene-d10	112	60-140		03/10/2016 01:24
1,2-DCB-d4	93	60-140		03/10/2016 01:24

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-31-11	1603047-051A	Soil	03/01/2016	GC10	117758
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.0082	1	03/10/2016 02:05	
Bromodichloromethane	ND	0.0082	1	03/10/2016 02:05	
Carbon Tetrachloride	ND	0.0082	1	03/10/2016 02:05	
Chlorobenzene	ND	0.0082	1	03/10/2016 02:05	
Chloroethane	ND	0.0082	1	03/10/2016 02:05	
Chloroform	ND	0.0082	1	03/10/2016 02:05	
Chloromethane	ND	0.0082	1	03/10/2016 02:05	
2-Chlorotoluene	ND	0.0082	1	03/10/2016 02:05	
4-Chlorotoluene	ND	0.0082	1	03/10/2016 02:05	
Dibromochloromethane	ND	0.0082	1	03/10/2016 02:05	
1,2-Dibromo-3-chloropropane	ND	0.0066	1	03/10/2016 02:05	
1,2-Dichlorobenzene	ND	0.0082	1	03/10/2016 02:05	
1,3-Dichlorobenzene	ND	0.0082	1	03/10/2016 02:05	
1,4-Dichlorobenzene	ND	0.0082	1	03/10/2016 02:05	
Dichlorodifluoromethane	ND	0.0082	1	03/10/2016 02:05	
1,1-Dichloroethane	ND	0.0082	1	03/10/2016 02:05	
1,2-Dichloroethane (1,2-DCA)	ND	0.0066	1	03/10/2016 02:05	
1,1-Dichloroethene	ND	0.0082	1	03/10/2016 02:05	
cis-1,2-Dichloroethene	ND	0.0082	1	03/10/2016 02:05	
trans-1,2-Dichloroethene	ND	0.0082	1	03/10/2016 02:05	
1,2-Dichloropropane	ND	0.0082	1	03/10/2016 02:05	
1,3-Dichloropropane	ND	0.0082	1	03/10/2016 02:05	
2,2-Dichloropropane	ND	0.0082	1	03/10/2016 02:05	
1,1-Dichloropropene	ND	0.0082	1	03/10/2016 02:05	
cis-1,3-Dichloropropene	ND	0.0082	1	03/10/2016 02:05	
trans-1,3-Dichloropropene	ND	0.0082	1	03/10/2016 02:05	
Freon 113	ND	0.0082	1	03/10/2016 02:05	
Hexachlorobutadiene	ND	0.0082	1	03/10/2016 02:05	
Hexachloroethane	ND	0.0082	1	03/10/2016 02:05	
Methylene chloride	ND	0.0082	1	03/10/2016 02:05	
1,1,1,2-Tetrachloroethane	ND	0.0082	1	03/10/2016 02:05	
1,1,2,2-Tetrachloroethane	ND	0.0082	1	03/10/2016 02:05	
Tetrachloroethene	ND	0.0082	1	03/10/2016 02:05	
1,2,3-Trichlorobenzene	ND	0.0082	1	03/10/2016 02:05	
1,2,4-Trichlorobenzene	ND	0.0082	1	03/10/2016 02:05	
1,1,1-Trichloroethane	ND	0.0082	1	03/10/2016 02:05	
1,1,2-Trichloroethane	ND	0.0082	1	03/10/2016 02:05	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/9/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-31-11	1603047-051A	Soil	03/01/2016	GC10	117758

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.0082	1	03/10/2016 02:05
Trichlorofluoromethane	ND	0.0082	1	03/10/2016 02:05
1,2,3-Trichloropropane	ND	0.0082	1	03/10/2016 02:05
Vinyl Chloride	ND	0.0082	1	03/10/2016 02:05
Surrogates	REC (%)	Limits		
Dibromofluoromethane	84	70-130		03/10/2016 02:05
Toluene-d8	98	70-130		03/10/2016 02:05
4-BFB	85	70-130		03/10/2016 02:05
Benzene-d6	81	60-140		03/10/2016 02:05
Ethylbenzene-d10	106	60-140		03/10/2016 02:05
1,2-DCB-d4	89	60-140		03/10/2016 02:05

Analyst(s): KF

Analytical Comments: a9



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-25-W	1603047-001A	Water	03/01/2016 13:40	GC28	117567
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.50	1	03/08/2016 00:43	
Bromodichloromethane	ND	0.50	1	03/08/2016 00:43	
Carbon Tetrachloride	ND	0.50	1	03/08/2016 00:43	
Chlorobenzene	ND	0.50	1	03/08/2016 00:43	
Chloroethane	ND	0.50	1	03/08/2016 00:43	
Chloroform	ND	0.50	1	03/08/2016 00:43	
Chloromethane	ND	0.50	1	03/08/2016 00:43	
2-Chlorotoluene	ND	0.50	1	03/08/2016 00:43	
4-Chlorotoluene	ND	0.50	1	03/08/2016 00:43	
Dibromochloromethane	ND	0.50	1	03/08/2016 00:43	
1,2-Dibromo-3-chloropropane	ND	0.20	1	03/08/2016 00:43	
1,2-Dichlorobenzene	ND	0.50	1	03/08/2016 00:43	
1,3-Dichlorobenzene	ND	0.50	1	03/08/2016 00:43	
1,4-Dichlorobenzene	ND	0.50	1	03/08/2016 00:43	
Dichlorodifluoromethane	ND	0.50	1	03/08/2016 00:43	
1,1-Dichloroethane	ND	0.50	1	03/08/2016 00:43	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/08/2016 00:43	
1,1-Dichloroethene	ND	0.50	1	03/08/2016 00:43	
cis-1,2-Dichloroethene	ND	0.50	1	03/08/2016 00:43	
trans-1,2-Dichloroethene	ND	0.50	1	03/08/2016 00:43	
1,2-Dichloropropane	ND	0.50	1	03/08/2016 00:43	
1,3-Dichloropropane	ND	0.50	1	03/08/2016 00:43	
2,2-Dichloropropane	ND	0.50	1	03/08/2016 00:43	
1,1-Dichloropropene	ND	0.50	1	03/08/2016 00:43	
cis-1,3-Dichloropropene	ND	0.50	1	03/08/2016 00:43	
trans-1,3-Dichloropropene	ND	0.50	1	03/08/2016 00:43	
Freon 113	ND	0.50	1	03/08/2016 00:43	
Hexachlorobutadiene	ND	0.50	1	03/08/2016 00:43	
Hexachloroethane	ND	0.50	1	03/08/2016 00:43	
Methylene chloride	ND	0.50	1	03/08/2016 00:43	
1,1,1,2-Tetrachloroethane	ND	0.50	1	03/08/2016 00:43	
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/08/2016 00:43	
Tetrachloroethene	ND	0.50	1	03/08/2016 00:43	
1,2,3-Trichlorobenzene	ND	0.50	1	03/08/2016 00:43	
1,2,4-Trichlorobenzene	ND	0.50	1	03/08/2016 00:43	
1,1,1-Trichloroethane	ND	0.50	1	03/08/2016 00:43	
1,1,2-Trichloroethane	ND	0.50	1	03/08/2016 00:43	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-25-W	1603047-001A	Water	03/01/2016 13:40	GC28	117567

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.50	1	03/08/2016 00:43
Trichlorofluoromethane	ND	0.50	1	03/08/2016 00:43
1,2,3-Trichloropropane	ND	0.50	1	03/08/2016 00:43
Vinyl Chloride	ND	0.50	1	03/08/2016 00:43
Surrogates	REC (%)	Limits		
Dibromofluoromethane	100	70-130		03/08/2016 00:43
Toluene-d8	90	70-130		03/08/2016 00:43
4-BFB	99	70-130		03/08/2016 00:43

Analyst(s): HK

Analytical Comments: b6,b1



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID	
SB-26-W	1603047-002A	Water	03/01/2016 13:00	GC28	117567	
Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Bromochloromethane	ND		0.900	5.0	10	03/03/2016 14:01
Bromodichloromethane	ND		2.00	5.0	10	03/03/2016 14:01
Carbon Tetrachloride	ND		0.690	5.0	10	03/03/2016 14:01
Chlorobenzene	ND		0.500	5.0	10	03/03/2016 14:01
Chloroethane	ND		3.10	5.0	10	03/03/2016 14:01
Chloroform	ND		0.640	5.0	10	03/03/2016 14:01
Chloromethane	ND		1.30	5.0	10	03/03/2016 14:01
2-Chlorotoluene	ND		0.700	5.0	10	03/03/2016 14:01
4-Chlorotoluene	ND		0.700	5.0	10	03/03/2016 14:01
Dibromochloromethane	ND		0.800	5.0	10	03/03/2016 14:01
1,2-Dibromo-3-chloropropane	ND		1.20	2.0	10	03/03/2016 14:01
1,2-Dichlorobenzene	ND		0.800	5.0	10	03/03/2016 14:01
1,3-Dichlorobenzene	ND		0.710	5.0	10	03/03/2016 14:01
1,4-Dichlorobenzene	ND		0.720	5.0	10	03/03/2016 14:01
Dichlorodifluoromethane	ND		0.630	5.0	10	03/03/2016 14:01
1,1-Dichloroethane	ND		0.600	5.0	10	03/03/2016 14:01
1,2-Dichloroethane (1,2-DCA)	ND		0.900	5.0	10	03/03/2016 14:01
1,1-Dichloroethene	ND		0.860	5.0	10	03/03/2016 14:01
cis-1,2-Dichloroethene	ND		0.500	5.0	10	03/03/2016 14:01
trans-1,2-Dichloroethene	ND		0.600	5.0	10	03/03/2016 14:01
1,2-Dichloropropane	ND		0.550	5.0	10	03/03/2016 14:01
1,3-Dichloropropane	ND		1.00	5.0	10	03/03/2016 14:01
2,2-Dichloropropane	ND		1.00	5.0	10	03/03/2016 14:01
1,1-Dichloropropene	ND		0.600	5.0	10	03/03/2016 14:01
cis-1,3-Dichloropropene	ND		0.900	5.0	10	03/03/2016 14:01
trans-1,3-Dichloropropene	ND		0.700	5.0	10	03/03/2016 14:01
Freon 113	ND		0.660	5.0	10	03/03/2016 14:01
Hexachlorobutadiene	ND		0.850	5.0	10	03/03/2016 14:01
Hexachloroethane	ND		0.600	5.0	10	03/03/2016 14:01
Methylene chloride	1.3	J	0.520	5.0	10	03/03/2016 14:01
1,1,1,2-Tetrachloroethane	ND		0.700	5.0	10	03/03/2016 14:01
1,1,2,2-Tetrachloroethane	ND		1.10	5.0	10	03/03/2016 14:01
Tetrachloroethene	ND		0.820	5.0	10	03/03/2016 14:01
1,2,3-Trichlorobenzene	ND		1.10	5.0	10	03/03/2016 14:01
1,2,4-Trichlorobenzene	ND		0.860	5.0	10	03/03/2016 14:01
1,1,1-Trichloroethane	ND		0.500	5.0	10	03/03/2016 14:01
1,1,2-Trichloroethane	ND		0.800	5.0	10	03/03/2016 14:01

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-26-W	1603047-002A	Water	03/01/2016 13:00	GC28	117567

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Trichloroethene	ND		0.600	5.0	10	03/03/2016 14:01
Trichlorofluoromethane	ND		0.470	5.0	10	03/03/2016 14:01
1,2,3-Trichloropropane	ND		1.40	5.0	10	03/03/2016 14:01
Vinyl Chloride	ND		0.700	5.0	10	03/03/2016 14:01
Surrogates	REC (%)			Limits		
Dibromofluoromethane	98			70-130		03/03/2016 14:01
Toluene-d8	98			70-130		03/03/2016 14:01
4-BFB	73			70-130		03/03/2016 14:01

Analyst(s): AK

Analytical Comments: b6,a3,b1



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-27-W	1603047-003A	Water	03/01/2016 14:20	GC28	117707

Analytes	Result	RL	DF	Date Analyzed
Bromochloromethane	ND	0.50	1	03/08/2016 01:22
Bromodichloromethane	ND	0.50	1	03/08/2016 01:22
Carbon Tetrachloride	ND	0.50	1	03/08/2016 01:22
Chlorobenzene	ND	0.50	1	03/08/2016 01:22
Chloroethane	ND	0.50	1	03/08/2016 01:22
Chloroform	ND	0.50	1	03/08/2016 01:22
Chloromethane	ND	0.50	1	03/08/2016 01:22
2-Chlorotoluene	ND	0.50	1	03/08/2016 01:22
4-Chlorotoluene	ND	0.50	1	03/08/2016 01:22
Dibromochloromethane	ND	0.50	1	03/08/2016 01:22
1,2-Dibromo-3-chloropropane	ND	0.20	1	03/08/2016 01:22
1,2-Dichlorobenzene	ND	0.50	1	03/08/2016 01:22
1,3-Dichlorobenzene	ND	0.50	1	03/08/2016 01:22
1,4-Dichlorobenzene	ND	0.50	1	03/08/2016 01:22
Dichlorodifluoromethane	ND	0.50	1	03/08/2016 01:22
1,1-Dichloroethane	ND	0.50	1	03/08/2016 01:22
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/08/2016 01:22
1,1-Dichloroethene	ND	0.50	1	03/08/2016 01:22
cis-1,2-Dichloroethene	ND	0.50	1	03/08/2016 01:22
trans-1,2-Dichloroethene	ND	0.50	1	03/08/2016 01:22
1,2-Dichloropropane	ND	0.50	1	03/08/2016 01:22
1,3-Dichloropropane	ND	0.50	1	03/08/2016 01:22
2,2-Dichloropropane	ND	0.50	1	03/08/2016 01:22
1,1-Dichloropropene	ND	0.50	1	03/08/2016 01:22
cis-1,3-Dichloropropene	ND	0.50	1	03/08/2016 01:22
trans-1,3-Dichloropropene	ND	0.50	1	03/08/2016 01:22
Freon 113	ND	0.50	1	03/08/2016 01:22
Hexachlorobutadiene	ND	0.50	1	03/08/2016 01:22
Hexachloroethane	ND	0.50	1	03/08/2016 01:22
Methylene chloride	ND	0.50	1	03/08/2016 01:22
1,1,1,2-Tetrachloroethane	ND	0.50	1	03/08/2016 01:22
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/08/2016 01:22
Tetrachloroethene	ND	0.50	1	03/08/2016 01:22
1,2,3-Trichlorobenzene	ND	0.50	1	03/08/2016 01:22
1,2,4-Trichlorobenzene	ND	0.50	1	03/08/2016 01:22
1,1,1-Trichloroethane	ND	0.50	1	03/08/2016 01:22
1,1,2-Trichloroethane	ND	0.50	1	03/08/2016 01:22

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-27-W	1603047-003A	Water	03/01/2016 14:20	GC28	117707

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.50	1	03/08/2016 01:22
Trichlorofluoromethane	ND	0.50	1	03/08/2016 01:22
1,2,3-Trichloropropane	ND	0.50	1	03/08/2016 01:22
Vinyl Chloride	ND	0.50	1	03/08/2016 01:22
Surrogates	REC (%)	Limits		
Dibromofluoromethane	97	70-130		03/08/2016 01:22
Toluene-d8	90	70-130		03/08/2016 01:22
4-BFB	103	70-130		03/08/2016 01:22

Analyst(s): HK

Analytical Comments: b6,b1



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-28-W	1603047-004A	Water	03/01/2016 12:10	GC28	117707
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.50	1	03/08/2016 02:00	
Bromodichloromethane	ND	0.50	1	03/08/2016 02:00	
Carbon Tetrachloride	ND	0.50	1	03/08/2016 02:00	
Chlorobenzene	ND	0.50	1	03/08/2016 02:00	
Chloroethane	ND	0.50	1	03/08/2016 02:00	
Chloroform	ND	0.50	1	03/08/2016 02:00	
Chloromethane	ND	0.50	1	03/08/2016 02:00	
2-Chlorotoluene	ND	0.50	1	03/08/2016 02:00	
4-Chlorotoluene	ND	0.50	1	03/08/2016 02:00	
Dibromochloromethane	ND	0.50	1	03/08/2016 02:00	
1,2-Dibromo-3-chloropropane	ND	0.20	1	03/08/2016 02:00	
1,2-Dichlorobenzene	ND	0.50	1	03/08/2016 02:00	
1,3-Dichlorobenzene	ND	0.50	1	03/08/2016 02:00	
1,4-Dichlorobenzene	ND	0.50	1	03/08/2016 02:00	
Dichlorodifluoromethane	ND	0.50	1	03/08/2016 02:00	
1,1-Dichloroethane	ND	0.50	1	03/08/2016 02:00	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/08/2016 02:00	
1,1-Dichloroethene	ND	0.50	1	03/08/2016 02:00	
cis-1,2-Dichloroethene	0.89	0.50	1	03/08/2016 02:00	
trans-1,2-Dichloroethene	ND	0.50	1	03/08/2016 02:00	
1,2-Dichloropropane	ND	0.50	1	03/08/2016 02:00	
1,3-Dichloropropane	ND	0.50	1	03/08/2016 02:00	
2,2-Dichloropropane	ND	0.50	1	03/08/2016 02:00	
1,1-Dichloropropene	ND	0.50	1	03/08/2016 02:00	
cis-1,3-Dichloropropene	ND	0.50	1	03/08/2016 02:00	
trans-1,3-Dichloropropene	ND	0.50	1	03/08/2016 02:00	
Freon 113	ND	0.50	1	03/08/2016 02:00	
Hexachlorobutadiene	ND	0.50	1	03/08/2016 02:00	
Hexachloroethane	ND	0.50	1	03/08/2016 02:00	
Methylene chloride	ND	0.50	1	03/08/2016 02:00	
1,1,1,2-Tetrachloroethane	ND	0.50	1	03/08/2016 02:00	
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/08/2016 02:00	
Tetrachloroethene	ND	0.50	1	03/08/2016 02:00	
1,2,3-Trichlorobenzene	ND	0.50	1	03/08/2016 02:00	
1,2,4-Trichlorobenzene	ND	0.50	1	03/08/2016 02:00	
1,1,1-Trichloroethane	ND	0.50	1	03/08/2016 02:00	
1,1,2-Trichloroethane	ND	0.50	1	03/08/2016 02:00	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-28-W	1603047-004A	Water	03/01/2016 12:10	GC28	117707

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.50	1	03/08/2016 02:00
Trichlorofluoromethane	ND	0.50	1	03/08/2016 02:00
1,2,3-Trichloropropane	ND	0.50	1	03/08/2016 02:00
Vinyl Chloride	ND	0.50	1	03/08/2016 02:00
Surrogates	REC (%)	Limits		
Dibromofluoromethane	97	70-130		03/08/2016 02:00
Toluene-d8	90	70-130		03/08/2016 02:00
4-BFB	107	70-130		03/08/2016 02:00

Analyst(s): HK

Analytical Comments: b6,b1



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-29-W	1603047-005A	Water	03/01/2016 15:00	GC10	117707
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.50	1	03/07/2016 21:01	
Bromodichloromethane	ND	0.50	1	03/07/2016 21:01	
Carbon Tetrachloride	ND	0.50	1	03/07/2016 21:01	
Chlorobenzene	ND	0.50	1	03/07/2016 21:01	
Chloroethane	ND	0.50	1	03/07/2016 21:01	
Chloroform	ND	0.50	1	03/07/2016 21:01	
Chloromethane	ND	0.50	1	03/07/2016 21:01	
2-Chlorotoluene	ND	0.50	1	03/07/2016 21:01	
4-Chlorotoluene	ND	0.50	1	03/07/2016 21:01	
Dibromochloromethane	ND	0.50	1	03/07/2016 21:01	
1,2-Dibromo-3-chloropropane	ND	0.20	1	03/07/2016 21:01	
1,2-Dichlorobenzene	ND	0.50	1	03/07/2016 21:01	
1,3-Dichlorobenzene	ND	0.50	1	03/07/2016 21:01	
1,4-Dichlorobenzene	ND	0.50	1	03/07/2016 21:01	
Dichlorodifluoromethane	ND	0.50	1	03/07/2016 21:01	
1,1-Dichloroethane	ND	0.50	1	03/07/2016 21:01	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/07/2016 21:01	
1,1-Dichloroethene	ND	0.50	1	03/07/2016 21:01	
cis-1,2-Dichloroethene	ND	0.50	1	03/07/2016 21:01	
trans-1,2-Dichloroethene	ND	0.50	1	03/07/2016 21:01	
1,2-Dichloropropane	ND	0.50	1	03/07/2016 21:01	
1,3-Dichloropropane	ND	0.50	1	03/07/2016 21:01	
2,2-Dichloropropane	ND	0.50	1	03/07/2016 21:01	
1,1-Dichloropropene	ND	0.50	1	03/07/2016 21:01	
cis-1,3-Dichloropropene	ND	0.50	1	03/07/2016 21:01	
trans-1,3-Dichloropropene	ND	0.50	1	03/07/2016 21:01	
Freon 113	ND	0.50	1	03/07/2016 21:01	
Hexachlorobutadiene	ND	0.50	1	03/07/2016 21:01	
Hexachloroethane	ND	0.50	1	03/07/2016 21:01	
Methylene chloride	ND	0.50	1	03/07/2016 21:01	
1,1,1,2-Tetrachloroethane	ND	0.50	1	03/07/2016 21:01	
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/07/2016 21:01	
Tetrachloroethene	10	0.50	1	03/07/2016 21:01	
1,2,3-Trichlorobenzene	ND	0.50	1	03/07/2016 21:01	
1,2,4-Trichlorobenzene	ND	0.50	1	03/07/2016 21:01	
1,1,1-Trichloroethane	ND	0.50	1	03/07/2016 21:01	
1,1,2-Trichloroethane	ND	0.50	1	03/07/2016 21:01	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-29-W	1603047-005A	Water	03/01/2016 15:00	GC10	117707

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.50	1	03/07/2016 21:01
Trichlorofluoromethane	ND	0.50	1	03/07/2016 21:01
1,2,3-Trichloropropane	ND	0.50	1	03/07/2016 21:01
Vinyl Chloride	ND	0.50	1	03/07/2016 21:01
Surrogates	REC (%)	Limits		
Dibromofluoromethane	88	70-130		03/07/2016 21:01
Toluene-d8	92	70-130		03/07/2016 21:01
4-BFB	80	70-130		03/07/2016 21:01

Analyst(s): KF

Analytical Comments: b1



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-30-W	1603047-006A	Water	03/01/2016 16:10	GC10	117518
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.50	1	03/03/2016 15:59	
Bromodichloromethane	ND	0.50	1	03/03/2016 15:59	
Carbon Tetrachloride	ND	0.50	1	03/03/2016 15:59	
Chlorobenzene	ND	0.50	1	03/03/2016 15:59	
Chloroethane	ND	0.50	1	03/03/2016 15:59	
Chloroform	ND	0.50	1	03/03/2016 15:59	
Chloromethane	ND	0.50	1	03/03/2016 15:59	
2-Chlorotoluene	ND	0.50	1	03/03/2016 15:59	
4-Chlorotoluene	ND	0.50	1	03/03/2016 15:59	
Dibromochloromethane	ND	0.50	1	03/03/2016 15:59	
1,2-Dibromo-3-chloropropane	ND	0.20	1	03/03/2016 15:59	
1,2-Dichlorobenzene	ND	0.50	1	03/03/2016 15:59	
1,3-Dichlorobenzene	ND	0.50	1	03/03/2016 15:59	
1,4-Dichlorobenzene	ND	0.50	1	03/03/2016 15:59	
Dichlorodifluoromethane	ND	0.50	1	03/03/2016 15:59	
1,1-Dichloroethane	ND	0.50	1	03/03/2016 15:59	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/03/2016 15:59	
1,1-Dichloroethene	ND	0.50	1	03/03/2016 15:59	
cis-1,2-Dichloroethene	ND	0.50	1	03/03/2016 15:59	
trans-1,2-Dichloroethene	ND	0.50	1	03/03/2016 15:59	
1,2-Dichloropropane	ND	0.50	1	03/03/2016 15:59	
1,3-Dichloropropane	ND	0.50	1	03/03/2016 15:59	
2,2-Dichloropropane	ND	0.50	1	03/03/2016 15:59	
1,1-Dichloropropene	ND	0.50	1	03/03/2016 15:59	
cis-1,3-Dichloropropene	ND	0.50	1	03/03/2016 15:59	
trans-1,3-Dichloropropene	ND	0.50	1	03/03/2016 15:59	
Freon 113	ND	0.50	1	03/03/2016 15:59	
Hexachlorobutadiene	ND	0.50	1	03/03/2016 15:59	
Hexachloroethane	ND	0.50	1	03/03/2016 15:59	
Methylene chloride	ND	0.50	1	03/03/2016 15:59	
1,1,1,2-Tetrachloroethane	ND	0.50	1	03/03/2016 15:59	
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/03/2016 15:59	
Tetrachloroethene	3.7	0.50	1	03/03/2016 15:59	
1,2,3-Trichlorobenzene	ND	0.50	1	03/03/2016 15:59	
1,2,4-Trichlorobenzene	ND	0.50	1	03/03/2016 15:59	
1,1,1-Trichloroethane	ND	0.50	1	03/03/2016 15:59	
1,1,2-Trichloroethane	ND	0.50	1	03/03/2016 15:59	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-30-W	1603047-006A	Water	03/01/2016 16:10	GC10	117518

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.50	1	03/03/2016 15:59
Trichlorofluoromethane	ND	0.50	1	03/03/2016 15:59
1,2,3-Trichloropropane	ND	0.50	1	03/03/2016 15:59
Vinyl Chloride	ND	0.50	1	03/03/2016 15:59
Surrogates	REC (%)	Limits		
Dibromofluoromethane	84	70-130		03/03/2016 15:59
Toluene-d8	91	70-130		03/03/2016 15:59
4-BFB	75	70-130		03/03/2016 15:59

Analyst(s): KF

Analytical Comments: b1



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-31-W	1603047-007A	Water	03/01/2016	GC10	117518
Analytes	Result	RL	DF	Date Analyzed	
Bromochloromethane	ND	0.50	1	03/03/2016 16:39	
Bromodichloromethane	ND	0.50	1	03/03/2016 16:39	
Carbon Tetrachloride	ND	0.50	1	03/03/2016 16:39	
Chlorobenzene	ND	0.50	1	03/03/2016 16:39	
Chloroethane	ND	0.50	1	03/03/2016 16:39	
Chloroform	ND	0.50	1	03/03/2016 16:39	
Chloromethane	ND	0.50	1	03/03/2016 16:39	
2-Chlorotoluene	ND	0.50	1	03/03/2016 16:39	
4-Chlorotoluene	ND	0.50	1	03/03/2016 16:39	
Dibromochloromethane	ND	0.50	1	03/03/2016 16:39	
1,2-Dibromo-3-chloropropane	ND	0.20	1	03/03/2016 16:39	
1,2-Dichlorobenzene	ND	0.50	1	03/03/2016 16:39	
1,3-Dichlorobenzene	ND	0.50	1	03/03/2016 16:39	
1,4-Dichlorobenzene	ND	0.50	1	03/03/2016 16:39	
Dichlorodifluoromethane	ND	0.50	1	03/03/2016 16:39	
1,1-Dichloroethane	ND	0.50	1	03/03/2016 16:39	
1,2-Dichloroethane (1,2-DCA)	ND	0.50	1	03/03/2016 16:39	
1,1-Dichloroethene	ND	0.50	1	03/03/2016 16:39	
cis-1,2-Dichloroethene	ND	0.50	1	03/03/2016 16:39	
trans-1,2-Dichloroethene	ND	0.50	1	03/03/2016 16:39	
1,2-Dichloropropane	ND	0.50	1	03/03/2016 16:39	
1,3-Dichloropropane	ND	0.50	1	03/03/2016 16:39	
2,2-Dichloropropane	ND	0.50	1	03/03/2016 16:39	
1,1-Dichloropropene	ND	0.50	1	03/03/2016 16:39	
cis-1,3-Dichloropropene	ND	0.50	1	03/03/2016 16:39	
trans-1,3-Dichloropropene	ND	0.50	1	03/03/2016 16:39	
Freon 113	ND	0.50	1	03/03/2016 16:39	
Hexachlorobutadiene	ND	0.50	1	03/03/2016 16:39	
Hexachloroethane	ND	0.50	1	03/03/2016 16:39	
Methylene chloride	ND	0.50	1	03/03/2016 16:39	
1,1,1,2-Tetrachloroethane	ND	0.50	1	03/03/2016 16:39	
1,1,2,2-Tetrachloroethane	ND	0.50	1	03/03/2016 16:39	
Tetrachloroethene	0.81	0.50	1	03/03/2016 16:39	
1,2,3-Trichlorobenzene	ND	0.50	1	03/03/2016 16:39	
1,2,4-Trichlorobenzene	ND	0.50	1	03/03/2016 16:39	
1,1,1-Trichloroethane	ND	0.50	1	03/03/2016 16:39	
1,1,2-Trichloroethane	ND	0.50	1	03/03/2016 16:39	

(Cont.)



Analytical Report

Client: AEI Consultants
Date Received: 3/2/16 8:54
Date Prepared: 3/3/16-3/8/16
Project: 345989; Lucasey

WorkOrder: 1603047
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L

Volatile Organics by P&T and GC/MS (Basic Target List)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
SB-31-W	1603047-007A	Water	03/01/2016	GC10	117518

Analytes	Result	RL	DF	Date Analyzed
Trichloroethene	ND	0.50	1	03/03/2016 16:39
Trichlorofluoromethane	ND	0.50	1	03/03/2016 16:39
1,2,3-Trichloropropane	ND	0.50	1	03/03/2016 16:39
Vinyl Chloride	ND	0.50	1	03/03/2016 16:39
Surrogates	REC (%)	Limits		
Dibromofluoromethane	84	70-130		03/03/2016 16:39
Toluene-d8	90	70-130		03/03/2016 16:39
4-BFB	74	70-130		03/03/2016 16:39

Analyst(s): KF

Analytical Comments: b1



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/2/16
Date Analyzed: 3/3/16
Instrument: GC16
Matrix: Soil
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117488
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-117488

QC Summary Report for SW8260B (Encore)

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
1,2,4-Trimethylbenzene	ND	0.010			
1,3,5-Trimethylbenzene	ND	0.010			
2-Butanone (MEK)	ND	0.040			
2-Hexanone	ND	0.010			
4-Isopropyl toluene	ND	0.010			
4-Methyl-2-pentanone (MIBK)	ND	0.010			
Acetone	ND	0.20			
Benzene	ND	0.010			
Carbon Disulfide	ND	0.010			
Diisopropyl ether (DIPE)	ND	0.010			
Ethyl tert-butyl ether (ETBE)	ND	0.010			
Ethylbenzene	ND	0.010			
Isopropylbenzene	ND	0.010			
Methyl-t-butyl ether (MTBE)	ND	0.010			
Naphthalene	ND	0.010			
n-Butyl benzene	ND	0.010			
n-Propyl benzene	ND	0.010			
sec-Butyl benzene	ND	0.010			
Styrene	ND	0.010			
t-Butyl alcohol (TBA)	ND	0.10			
tert-Amyl methyl ether (TAME)	ND	0.010			
tert-Butyl benzene	ND	0.010			
Toluene	ND	0.010			
Xylenes, Total	ND	0.010			
Bromobenzene	ND	0.010			
Bromochloromethane	ND	0.010			
Bromodichloromethane	ND	0.010			
Bromoform	ND	0.010			
Bromomethane	ND	0.010			
Carbon Tetrachloride	ND	0.010			
Chlorobenzene	ND	0.010			
Chloroethane	ND	0.010			
Chloroform	ND	0.010			
Chloromethane	ND	0.010			
2-Chlorotoluene	ND	0.010			
4-Chlorotoluene	ND	0.010			
Dibromochloromethane	ND	0.010			
1,2-Dibromo-3-chloropropane	ND	0.0080			
1,2-Dibromoethane (EDB)	ND	0.0080			

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/2/16
Date Analyzed: 3/3/16
Instrument: GC16
Matrix: Soil
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117488
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-117488

QC Summary Report for SW8260B (Encore)

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Dibromomethane	ND	0.010			
1,2-Dichlorobenzene	ND	0.010			
1,3-Dichlorobenzene	ND	0.010			
1,4-Dichlorobenzene	ND	0.010			
Dichlorodifluoromethane	ND	0.010			
1,1-Dichloroethane	ND	0.010			
1,2-Dichloroethane (1,2-DCA)	ND	0.010			
1,1-Dichloroethene	ND	0.010			
cis-1,2-Dichloroethene	ND	0.010			
trans-1,2-Dichloroethene	ND	0.010			
1,2-Dichloropropane	ND	0.010			
1,3-Dichloropropane	ND	0.010			
2,2-Dichloropropane	ND	0.010			
1,1-Dichloropropene	ND	0.010			
cis-1,3-Dichloropropene	ND	0.010			
trans-1,3-Dichloropropene	ND	0.010			
Freon 113	ND	0.010			
Hexachlorobutadiene	ND	0.010			
Hexachloroethane	ND	0.010			
Methylene chloride	ND	0.010			
1,1,1,2-Tetrachloroethane	ND	0.010			
1,1,2,2-Tetrachloroethane	ND	0.010			
Tetrachloroethene	ND	0.010			
1,2,3-Trichlorobenzene	ND	0.010			
1,2,4-Trichlorobenzene	ND	0.010			
1,1,1-Trichloroethane	ND	0.010			
1,1,2-Trichloroethane	ND	0.010			
Trichloroethene	ND	0.010			
Trichlorofluoromethane	ND	0.010			
1,2,3-Trichloropropane	ND	0.010			
Vinyl Chloride	ND	0.010			

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/2/16
Date Analyzed: 3/3/16
Instrument: GC16
Matrix: Soil
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117488
Extraction Method: SW5035
Analytical Method: SW8260B
Unit: mg/Kg
Sample ID: MB/LCS/LCSD-117488

QC Summary Report for SW8260B (Encore)

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	0.213		0.25	85	70-130
Toluene-d8	0.244		0.25	98	70-130
4-BFB	0.0265		0.025	106	70-130
Benzene-d6	0.153		0.20	76	60-140
Ethylbenzene-d10	0.188		0.20	94	60-140
1,2-DCB-d4	0.141		0.20	70	60-140

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Benzene	0.0786	0.0787	0.10	79	79	70-130	0	30
Diisopropyl ether (DIPE)	0.0772	0.0771	0.10	77	77	70-130	0	30
Ethyl tert-butyl ether (ETBE)	0.0755	0.0758	0.10	75	76	70-130	0.466	30
Methyl-t-butyl ether (MTBE)	0.0738	0.0742	0.10	74	74	70-130	0	30
t-Butyl alcohol (TBA)	0.349	0.362	0.40	87	90	70-130	3.52	30
tert-Amyl methyl ether (TAME)	0.0682	0.0683	0.10	68, F2	68, F2	70-130	0	30
Toluene	0.0833	0.0832	0.10	83	83	70-130	0	30
Chlorobenzene	0.0817	0.0815	0.10	82	82	70-130	0	30
1,2-Dibromoethane (EDB)	0.0831	0.0827	0.10	83	83	70-130	0	30
1,2-Dichloroethane (1,2-DCA)	0.0825	0.0829	0.10	82	83	70-130	0.430	30
1,1-Dichloroethene	0.0761	0.0767	0.10	76	77	70-130	0.809	30
Trichloroethene	0.0817	0.0809	0.10	82	81	70-130	0.952	30
Surrogate Recovery								
Dibromofluoromethane	0.218	0.218	0.25	87	87	70-130	0	0
Toluene-d8	0.241	0.241	0.25	96	97	70-130	0.310	0
4-BFB	0.0268	0.0283	0.025	107	113	70-130	5.20	0
Benzene-d6	0.163	0.163	0.20	82	82	60-140	0	30
Ethylbenzene-d10	0.206	0.198	0.20	103	99	60-140	3.63	30
1,2-DCB-d4	0.144	0.147	0.20	72	73	60-140	2.13	30



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/8/16
Date Analyzed: 3/9/16
Instrument: GC16
Matrix: Soil
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117758
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-117758

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	0.10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.0050	-	-	-	-
Benzene	ND	-	0.0050	-	-	-	-
Bromobenzene	ND	-	0.0050	-	-	-	-
Bromochloromethane	ND	-	0.0050	-	-	-	-
Bromodichloromethane	ND	-	0.0050	-	-	-	-
Bromoform	ND	-	0.0050	-	-	-	-
Bromomethane	ND	-	0.0050	-	-	-	-
2-Butanone (MEK)	ND	-	0.020	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	0.050	-	-	-	-
n-Butyl benzene	ND	-	0.0050	-	-	-	-
sec-Butyl benzene	ND	-	0.0050	-	-	-	-
tert-Butyl benzene	ND	-	0.0050	-	-	-	-
Carbon Disulfide	ND	-	0.0050	-	-	-	-
Carbon Tetrachloride	ND	-	0.0050	-	-	-	-
Chlorobenzene	ND	0.0411	0.0050	0.050	-	82	77-121
Chloroethane	ND	-	0.0050	-	-	-	-
Chloroform	ND	-	0.0050	-	-	-	-
Chloromethane	ND	-	0.0050	-	-	-	-
2-Chlorotoluene	ND	-	0.0050	-	-	-	-
4-Chlorotoluene	ND	-	0.0050	-	-	-	-
Dibromochloromethane	ND	-	0.0050	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.0040	-	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0430	0.0040	0.050	-	86	67-119
Dibromomethane	ND	-	0.0050	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.0050	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.0050	-	-	-	-
Dichlorodifluoromethane	ND	-	0.0050	-	-	-	-
1,1-Dichloroethane	ND	-	0.0050	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0435	0.0040	0.050	-	87	58-135
1,1-Dichloroethene	ND	0.0386	0.0050	0.050	-	77	42-145
cis-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.0050	-	-	-	-
1,2-Dichloropropane	ND	-	0.0050	-	-	-	-
1,3-Dichloropropane	ND	-	0.0050	-	-	-	-
2,2-Dichloropropane	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/8/16
Date Analyzed: 3/9/16
Instrument: GC16
Matrix: Soil
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117758
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-117758

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.0050	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.0050	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.0050	-	-	-	-
Ethylbenzene	ND	-	0.0050	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.0050	-	-	-	-
Freon 113	ND	-	0.0050	-	-	-	-
Hexachlorobutadiene	ND	-	0.0050	-	-	-	-
Hexachloroethane	ND	-	0.0050	-	-	-	-
2-Hexanone	ND	-	0.0050	-	-	-	-
Isopropylbenzene	ND	-	0.0050	-	-	-	-
4-Isopropyl toluene	ND	-	0.0050	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.0050	-	-	-	-
Methylene chloride	ND	-	0.0050	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.0050	-	-	-	-
Naphthalene	ND	-	0.0050	-	-	-	-
n-Propyl benzene	ND	-	0.0050	-	-	-	-
Styrene	ND	-	0.0050	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.0050	-	-	-	-
Tetrachloroethene	ND	-	0.0050	-	-	-	-
Toluene	ND	-	0.0050	-	-	-	-
1,2,3-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.0050	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.0050	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.0050	-	-	-	-
Trichloroethene	ND	0.0423	0.0050	0.050	-	85	72-132
Trichlorofluoromethane	ND	-	0.0050	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.0050	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.0050	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.0050	-	-	-	-
Vinyl Chloride	ND	-	0.0050	-	-	-	-
Xylenes, Total	ND	-	0.0050	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/8/16
Date Analyzed: 3/9/16
Instrument: GC16
Matrix: Soil
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117758
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: mg/kg
Sample ID: MB/LCS-117758

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	0.106	0.110		0.12	85	88	70-130
Toluene-d8	0.120	0.118		0.12	96	94	70-130
4-BFB	0.0119	0.0128		0.012	95	102	70-130
Benzene-d6	0.0878	0.0953		0.10	88	95	60-140
Ethylbenzene-d10	0.112	0.110		0.10	112	110	60-140
1,2-DCB-d4	0.0729	0.0753		0.10	73	75	60-140



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/3/16
Date Analyzed: 3/3/16
Instrument: GC10
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117518
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117518
 1603047-006AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.50	-	-	-	-
Benzene	ND	-	0.50	-	-	-	-
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	2.0	-	-	-	-
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	9.55	0.50	10	-	95	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.22	0.50	10	-	92	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	8.43	0.50	10	-	84	66-125
1,1-Dichloroethene	ND	9.32	0.50	10	-	93	47-149
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	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/3/16
Date Analyzed: 3/3/16
Instrument: GC10
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117518
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117518
 1603047-006AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.50	-	-	-	-
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.50	-	-	-	-
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.50	-	-	-	-
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	-	0.50	-	-	-	-
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	9.56	0.50	10	-	96	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/3/16
Date Analyzed: 3/3/16
Instrument: GC10
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117518
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117518
 1603047-006AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	21.1	21.8		25	84	87	70-130
Toluene-d8	22.8	22.5		25	91	90	70-130
4-BFB	1.90	2.03		2.5	76	81	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chlorobenzene	10.1	9.84	10	ND	101	98	77-120	2.75	20
1,2-Dibromoethane (EDB)	10.1	10.1	10	ND	101	101	76-135	0	20
1,2-Dichloroethane (1,2-DCA)	8.72	8.80	10	ND	87	88	73-139	0.915	20
1,1-Dichloroethene	9.76	9.51	10	ND	98	95	59-140	2.64	20
Trichloroethene	10.0	9.98	10	ND	100	100	64-132	0	20
Surrogate Recovery									
Dibromofluoromethane	21.6	21.8	25		86	87	73-131	0.841	20
Toluene-d8	22.3	22.3	25		89	89	72-117	0	20
4-BFB	2.00	2.02	2.5		80	81	74-116	0.597	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/3/16
Date Analyzed: 3/3/16
Instrument: GC28
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117567
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117567
 1602C06-017AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	1.7	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.22	0.50	-	-	-	-
Benzene	ND	-	0.051	0.50	-	-	-	-
Bromobenzene	ND	-	0.060	0.50	-	-	-	-
Bromochloromethane	ND	-	0.090	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.20	0.50	-	-	-	-
Bromoform	ND	-	0.066	0.50	-	-	-	-
Bromomethane	ND	-	0.16	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	0.49	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	0.94	2.0	-	-	-	-
n-Butyl benzene	ND	-	0.084	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.060	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.050	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.066	0.50	-	-	-	-
Carbon Tetrachloride	0.171,J	-	0.069	0.50	-	-	-	-
Chlorobenzene	ND	9.04	0.050	0.50	10	-	90	43-157
Chloroethane	ND	-	0.31	0.50	-	-	-	-
Chloroform	ND	-	0.064	0.50	-	-	-	-
Chloromethane	ND	-	0.13	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.070	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.070	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.080	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.12	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.08	0.12	0.50	10	-	91	44-155
Dibromomethane	ND	-	0.080	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.080	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.071	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.072	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.063	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.060	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	9.05	0.090	0.50	10	-	91	66-125
1,1-Dichloroethene	ND	12.0	0.086	0.50	10	-	120	47-149
cis-1,2-Dichloroethene	ND	-	0.050	0.50	-	-	-	-
trans-1,2-Dichloroethene	ND	-	0.060	0.50	-	-	-	-
1,2-Dichloropropane	ND	-	0.055	0.50	-	-	-	-
1,3-Dichloropropane	ND	-	0.10	0.50	-	-	-	-
2,2-Dichloropropane	ND	-	0.10	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/3/16
Date Analyzed: 3/3/16
Instrument: GC28
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117567
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117567
 1602C06-017AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.060	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.090	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.070	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.070	0.50	-	-	-	-
Ethylbenzene	ND	-	0.050	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.070	0.50	-	-	-	-
Freon 113	ND	-	0.066	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.085	0.50	-	-	-	-
Hexachloroethane	ND	-	0.060	0.50	-	-	-	-
2-Hexanone	ND	-	0.44	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.070	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.050	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.10	0.50	-	-	-	-
Methylene chloride	ND	-	0.052	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.24	0.50	-	-	-	-
Naphthalene	0.307,J	-	0.16	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.060	0.50	-	-	-	-
Styrene	0.301,J	-	0.060	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.070	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.11	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.082	0.50	-	-	-	-
Toluene	ND	-	0.040	0.50	-	-	-	-
1,2,3-Trichlorobenzene	ND	-	0.11	0.50	-	-	-	-
1,2,4-Trichlorobenzene	ND	-	0.086	0.50	-	-	-	-
1,1,1-Trichloroethane	ND	-	0.050	0.50	-	-	-	-
1,1,2-Trichloroethane	ND	-	0.080	0.50	-	-	-	-
Trichloroethene	ND	9.42	0.060	0.50	10	-	94	43-157
Trichlorofluoromethane	ND	-	0.047	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.14	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.065	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.070	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.070	0.50	-	-	-	-
Xylenes, Total	ND	-	0.25	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/3/16
Date Analyzed: 3/3/16
Instrument: GC28
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117567
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117567
 1602C06-017AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	MDL	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery								
Dibromofluoromethane	24.4	24.5			25	98	98	70-130
Toluene-d8	25.3	25.5			25	101	102	70-130
4-BFB	1.65	2.09			2.5	66,F3	84	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chlorobenzene	8.44	8.22	10	ND	84	82	77-120	2.62	20
1,2-Dibromoethane (EDB)	9.21	9.19	10	ND	92	92	76-135	0	20
1,2-Dichloroethane (1,2-DCA)	8.60	8.77	10	0.7708	78	80	73-139	1.86	20
1,1-Dichloroethene	10.4	10.5	10	ND	103	105	59-140	1.28	20
Trichloroethene	8.69	8.64	10	ND	87	86	64-132	0.584	20
Surrogate Recovery									
Dibromofluoromethane	24.3	24.7	25		97	99	73-131	1.58	20
Toluene-d8	24.7	24.6	25		99	98	72-117	0.471	20
4-BFB	2.03	2.05	2.5		81	82	74-116	0.987	20

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/7/16
Date Analyzed: 3/7/16
Instrument: GC10
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117707
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117707
 1603156-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Acetone	ND	-	10	-	-	-	-
tert-Amyl methyl ether (TAME)	ND	-	0.50	-	-	-	-
Benzene	ND	-	0.50	-	-	-	-
Bromobenzene	ND	-	0.50	-	-	-	-
Bromochloromethane	ND	-	0.50	-	-	-	-
Bromodichloromethane	ND	-	0.50	-	-	-	-
Bromoform	ND	-	0.50	-	-	-	-
Bromomethane	ND	-	0.50	-	-	-	-
2-Butanone (MEK)	ND	-	2.0	-	-	-	-
t-Butyl alcohol (TBA)	ND	-	2.0	-	-	-	-
n-Butyl benzene	ND	-	0.50	-	-	-	-
sec-Butyl benzene	ND	-	0.50	-	-	-	-
tert-Butyl benzene	ND	-	0.50	-	-	-	-
Carbon Disulfide	ND	-	0.50	-	-	-	-
Carbon Tetrachloride	ND	-	0.50	-	-	-	-
Chlorobenzene	ND	10.1	0.50	10	-	101	43-157
Chloroethane	ND	-	0.50	-	-	-	-
Chloroform	ND	-	0.50	-	-	-	-
Chloromethane	ND	-	0.50	-	-	-	-
2-Chlorotoluene	ND	-	0.50	-	-	-	-
4-Chlorotoluene	ND	-	0.50	-	-	-	-
Dibromochloromethane	ND	-	0.50	-	-	-	-
1,2-Dibromo-3-chloropropane	ND	-	0.20	-	-	-	-
1,2-Dibromoethane (EDB)	ND	9.98	0.50	10	-	100	44-155
Dibromomethane	ND	-	0.50	-	-	-	-
1,2-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,3-Dichlorobenzene	ND	-	0.50	-	-	-	-
1,4-Dichlorobenzene	ND	-	0.50	-	-	-	-
Dichlorodifluoromethane	ND	-	0.50	-	-	-	-
1,1-Dichloroethane	ND	-	0.50	-	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	8.91	0.50	10	-	89	66-125
1,1-Dichloroethene	ND	9.98	0.50	10	-	100	47-149
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	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/7/16
Date Analyzed: 3/7/16
Instrument: GC10
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117707
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117707
 1603156-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
1,1-Dichloropropene	ND	-	0.50	-	-	-	-
cis-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
trans-1,3-Dichloropropene	ND	-	0.50	-	-	-	-
Diisopropyl ether (DIPE)	ND	-	0.50	-	-	-	-
Ethylbenzene	ND	-	0.50	-	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	-	0.50	-	-	-	-
Freon 113	ND	-	0.50	-	-	-	-
Hexachlorobutadiene	ND	-	0.50	-	-	-	-
Hexachloroethane	ND	-	0.50	-	-	-	-
2-Hexanone	ND	-	0.50	-	-	-	-
Isopropylbenzene	ND	-	0.50	-	-	-	-
4-Isopropyl toluene	ND	-	0.50	-	-	-	-
Methyl-t-butyl ether (MTBE)	ND	-	0.50	-	-	-	-
Methylene chloride	ND	-	0.50	-	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	-	0.50	-	-	-	-
Naphthalene	ND	-	0.50	-	-	-	-
n-Propyl benzene	ND	-	0.50	-	-	-	-
Styrene	ND	-	0.50	-	-	-	-
1,1,1,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
1,1,2,2-Tetrachloroethane	ND	-	0.50	-	-	-	-
Tetrachloroethene	ND	-	0.50	-	-	-	-
Toluene	ND	-	0.50	-	-	-	-
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	10.5	0.50	10	-	105	43-157
Trichlorofluoromethane	ND	-	0.50	-	-	-	-
1,2,3-Trichloropropane	ND	-	0.50	-	-	-	-
1,2,4-Trimethylbenzene	ND	-	0.50	-	-	-	-
1,3,5-Trimethylbenzene	ND	-	0.50	-	-	-	-
Vinyl Chloride	ND	-	0.50	-	-	-	-
Xylenes, Total	ND	-	0.50	-	-	-	-

(Cont.)



Quality Control Report

Client: AEI Consultants
Date Prepared: 3/7/16
Date Analyzed: 3/7/16
Instrument: GC10
Matrix: Water
Project: 345989; Lucasey

WorkOrder: 1603047
BatchID: 117707
Extraction Method: SW5030B
Analytical Method: SW8260B
Unit: µg/L
Sample ID: MB/LCS-117707
 1603156-001BMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	LCS Result	RL	SPK Val	MB SS %REC	LCS %REC	LCS Limits
Surrogate Recovery							
Dibromofluoromethane	21.3	21.9		25	85	88	70-130
Toluene-d8	22.4	22.3		25	90	89	70-130
4-BFB	1.91	2.02		2.5	77	81	70-130

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Chlorobenzene	10.2	10.4	10	ND	102	104	77-120	1.73	20
1,2-Dibromoethane (EDB)	10.2	10.5	10	ND	102	105	76-135	2.65	20
1,2-Dichloroethane (1,2-DCA)	9.52	9.87	10	ND	95	99	73-139	3.58	20
1,1-Dichloroethene	9.95	10.2	10	ND	100	103	59-140	2.98	20
Trichloroethene	10.4	10.5	10	ND	103	105	64-132	1.67	20
Surrogate Recovery									
Dibromofluoromethane	22.1	22.5	25		88	90	73-131	1.71	20
Toluene-d8	22.4	22.3	25		90	89	72-117	0.372	20
4-BFB	2.01	2.08	2.5		80	83	74-116	3.13	20

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1603047

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:
 Jonathan Sanders
 AEI Consultants
 2500 Camino Diablo, Ste.#200
 Walnut Creek, CA 94597
 (925) 478-9698 FAX: (925) 944-2895

Email: jsanders@aeiconsultants.com
 cc/3rd Party:
 PO: 103821
 ProjectNo: 345989; Lucasey

Bill to:
 Accounts Payable
 AEI Consultants
 2500 Camino Diablo, Ste. #200
 Walnut Creek, CA 94597
 AccountsPayable@AEIConsultants.com

Requested TAT: 5 days;

Date Received: 03/01/2016
Date Logged: 03/02/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1603047-001	SB-25-W	Water	3/1/2016 13:40	<input type="checkbox"/>			A	A								
1603047-002	SB-26-W	Water	3/1/2016 13:00	<input type="checkbox"/>			A									
1603047-003	SB-27-W	Water	3/1/2016 14:20	<input type="checkbox"/>			A									
1603047-004	SB-28-W	Water	3/1/2016 12:10	<input type="checkbox"/>			A									
1603047-005	SB-29-W	Water	3/1/2016 15:00	<input type="checkbox"/>			A									
1603047-006	SB-30-W	Water	3/1/2016 16:10	<input type="checkbox"/>			A									
1603047-007	SB-31-W	Water	3/1/2016	<input type="checkbox"/>			A									
1603047-009	SB-25-1.5	Soil	3/1/2016 13:25	<input type="checkbox"/>		A										
1603047-011	SB-25-5	Soil	3/1/2016 13:25	<input type="checkbox"/>		A										
1603047-017	SB-26-5	Soil	3/1/2016 12:46	<input type="checkbox"/>		A										
1603047-019	SB-26-9	Soil	3/1/2016 13:00	<input type="checkbox"/>		A										
1603047-023	SB-27-3	Soil	3/1/2016 14:10	<input type="checkbox"/>	A											
1603047-025	SB-27-7	Soil	3/1/2016 14:18	<input type="checkbox"/>	A											
1603047-030	SB-28-1	Soil	3/1/2016 11:15	<input type="checkbox"/>		A										
1603047-032	SB-28-5	Soil	3/1/2016 11:30	<input type="checkbox"/>		A										

Test Legend:

1	8010_E	2	8010_S	3	8010_W	4	PREF REPORT
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262



CHAIN-OF-CUSTODY RECORD

WorkOrder: 1603047

ClientCode: AEL

WaterTrax
 WriteOn
 EDF
 Excel
 EQUIS
 Email
 HardCopy
 ThirdParty
 J-flag

Report to:

Jonathan Sanders
AEI Consultants
2500 Camino Diablo, Ste.#200
Walnut Creek, CA 94597
(925) 478-9698 FAX: (925) 944-2895

Email: jsanders@aeiconsultants.com
cc/3rd Party:
PO: 103821
ProjectNo: 345989; Lucasey

Bill to:

Accounts Payable
AEI Consultants
2500 Camino Diablo, Ste. #200
Walnut Creek, CA 94597
AccountsPayable@AEIConsultants.com

Requested TAT: 5 days;

Date Received: 03/01/2016

Date Logged: 03/02/2016

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
1603047-033	SB-28-7	Soil	3/1/2016 11:35	<input checked="" type="checkbox"/>	A													
1603047-038	SB-29-1	Soil	3/1/2016 14:42	<input type="checkbox"/>		A												
1603047-040	SB-29-5	Soil	3/1/2016 14:48	<input type="checkbox"/>		A												
1603047-046	SB-30-2	Soil	3/1/2016 15:40	<input type="checkbox"/>	A													
1603047-047	SB-30-5	Soil	3/1/2016 15:46	<input checked="" type="checkbox"/>	A													
1603047-048	SB-30-11	Soil	3/1/2016 15:02	<input type="checkbox"/>	A													
1603047-049	SB-31-2	Soil	3/1/2016 16:29	<input type="checkbox"/>	A													
1603047-050	SB-31-7	Soil	3/1/2016 16:40	<input checked="" type="checkbox"/>	A													
1603047-051	SB-31-11	Soil	3/1/2016	<input type="checkbox"/>		A												

Test Legend:

1	8010_E	2	8010_S	3	8010_W	4	PREF REPORT
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-001A	SB-25-W	Water	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	3	VOA w/ HCl	<input type="checkbox"/>	3/1/2016 13:40	5 days	5%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-002A	SB-26-W	Water	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	3	VOA w/ HCl	<input type="checkbox"/>	3/1/2016 13:00	5 days	10%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-003A	SB-27-W	Water	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	3	VOA w/ HCl	<input type="checkbox"/>	3/1/2016 14:20	5 days	10%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-004A	SB-28-W	Water	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	3	VOA w/ HCl	<input type="checkbox"/>	3/1/2016 12:10	5 days	10%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-005A	SB-29-W	Water	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	3	VOA w/ HCl	<input type="checkbox"/>	3/1/2016 15:00	5 days	5%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-006A	SB-30-W	Water	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	3	VOA w/ HCl	<input type="checkbox"/>	3/1/2016 16:10	5 days	5%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-007A	SB-31-W	Water	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	3	VOA w/ HCl	<input type="checkbox"/>	3/1/2016	5 days	5%+	<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-008A	Trip Blank	Water	Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>	2	VOA w/ HCl	<input type="checkbox"/>	3/1/2016		None	<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-009A	SB-25-1.5	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:25	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-010A	SB-25-3	Soil	Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:28			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-011A	SB-25-5	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:25	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								
1603047-012A	SB-25-7	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:37			<input checked="" type="checkbox"/>	
1603047-013A	SB-25-9	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:45			<input checked="" type="checkbox"/>	
1603047-014A	SB-25-11	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:50			<input checked="" type="checkbox"/>	
1603047-015A	SB-25-13	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:00			<input checked="" type="checkbox"/>	
1603047-016A	SB-25-15	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:02			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-017A	SB-26-5	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 12:46	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-018A	SB-26-7	Soil	Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 12:48			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-019A	SB-26-9	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:00	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								
1603047-020A	SB-26-11	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:02			<input checked="" type="checkbox"/>	
1603047-021A	SB-26-13	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:10			<input checked="" type="checkbox"/>	
1603047-022A	SB-26-15	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 13:12			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-023A	SB-27-3	Soil	SW8260B (HVOCs List) (Encore) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:10	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-024A	SB-27-5	Soil	Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:17			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-025A	SB-27-7	Soil	SW8260B (HVOCs List) (Encore) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:18	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								
1603047-026A	SB-27-9	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:22			<input checked="" type="checkbox"/>	
1603047-027A	SB-27-11	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:27			<input checked="" type="checkbox"/>	
1603047-028A	SB-27-13	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:32			<input checked="" type="checkbox"/>	
1603047-029A	SB-27-15	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:34			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-030A	SB-28-1	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 11:15	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-031A	SB-28-3	Soil	Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 11:18				<input checked="" type="checkbox"/>

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-032A	SB-28-5	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 11:30	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-033A	SB-28-7	Soil	SW8260B (HVOCs List) (Encore) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 11:35	5 days		<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								
1603047-034A	SB-28-9	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 12:15			<input checked="" type="checkbox"/>	
1603047-035A	SB-28-11	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 12:20			<input checked="" type="checkbox"/>	
1603047-036A	SB-28-13	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 12:25			<input checked="" type="checkbox"/>	
1603047-037A	SB-28-15	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 12:30			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-038A	SB-29-1	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:42	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-039A	SB-29-3	Soil	Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:43			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-040A	SB-29-5	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:48	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								
1603047-041A	SB-29-7	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:49			<input checked="" type="checkbox"/>	
1603047-042A	SB-29-9	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:53			<input checked="" type="checkbox"/>	
1603047-043A	SB-29-11	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 14:54			<input checked="" type="checkbox"/>	
1603047-044A	SB-29-13	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 15:04			<input checked="" type="checkbox"/>	
1603047-045A	SB-29-15	Soil		1	Encore Sampler	<input type="checkbox"/>	3/1/2016 15:06			<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-046A	SB-30-2	Soil	SW8260B (HVOCs List) (Encore) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 15:40	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-047A	SB-30-5	Soil	SW8260B (HVOCs List) (Encore) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 15:46	5 days		<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-048A	SB-30-11	Soil	SW8260B (HVOCs List) (Encore) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 15:02	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-049A	SB-31-2	Soil	SW8260B (HVOCs List) (Encore) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 16:29	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-050A	SB-31-7	Soil	SW8260B (HVOCs List) (Encore) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016 16:40	5 days		<input checked="" type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).
 - MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1603047-051A	SB-31-11	Soil	SW8260B (HVOCs List) <1,1,1,2-Tetrachloroethane, 1,1,1-Trichloroethane, 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,1-Dichloroethane, 1,1-Dichloroethene, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,3-Trichloropropane, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, 1,2-Dichlorobenzene, 1,2-Dichloroethane (1,2-DCA), 1,2-Dichloropropane, 1,3-Dichlorobenzene, 1,3-Dichloropropane, 1,4-Dichlorobenzene, 2,2-Dichloropropane, 2-Chlorotoluene, 4-Chlorotoluene, Bromochloromethane, Bromodichloromethane, Carbon Tetrachloride, Chlorobenzene, Chloroethane, Chloroform, Chloromethane, cis-1,2-Dichloroethene, cis-1,3-Dichloropropene, Dibromochloromethane, Dibromomethane, Dichlorodifluoromethane, Freon 113, Hexachlorobutadiene,	1	Encore Sampler	<input type="checkbox"/>	3/1/2016	5 days		<input type="checkbox"/>	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



WORK ORDER SUMMARY

Client Name: AEI CONSULTANTS

QC Level: LEVEL 2

Work Order: 1603047

Project: 345989; Lucasey

Client Contact: Jonathan Sanders

Date Logged: 3/2/2016

Comments: Samples taken off hold 3/2/16 per J.S. via email. 047 and 050 put back on hold!!

Contact's Email: jsanders@aeiconsultants.com

WaterTrax
 WriteOn
 EDF
 Excel
 Fax
 Email
 HardCopy
 ThirdParty
 J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
			Hexachloroethane, Methylene chloride, Tetrachloroethene, trans-1,2-Dichloroethene, trans-1,3-Dichloropropene, Trichloroethene, Trichlorofluoromethane, Vinyl Chloride>								

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mcccampbell.com / main@mcccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY 2 DAY 3 DAY 5 DAY
 GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Jonathan Sanders
Company: AEI

Bill To: AEI

Tele: (925) 746-6000

E-Mail: jsanders@aeiconsultants.com

Project #: 345989

Project Name: Lucasen

Project Location: 2744 E. 11th St.

Purchase Order# 103821

Sampler Signature: [Signature]

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED			BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624/ 8260 (VOCs) SOLO	EPA 525.2 / 625 / 8270 (SYOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)***	LUFT 5 Metals (200.8 / 6020)***	Metals (200.8 / 6020)***	Lab to Filter sample for Dissolved metals analysis	Hold						
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other																						
SB-26-12	11 (Depth)	3-1-16	1302	1					X																												X
SB-26-14	13		1310						X																												X
SB-26-16	15		1312						X																												X
SB-27-4	3		1410						X																												X
SB-27-6	5		1417						X																												X
SB-27-8	7		1418						X																												X
SB-27-10	9		1422						X																												X
SB-27-12	11		1427						X																												X
SB-27-14	13		1432						X																												X
SB-27-16	15		1434						X																												X
SB-28-2	1		1115						X																												X

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

*** If metals are requested for water samples and the water type is not specified on the chain of custody, then MAI will default to metals by E200.8.

Relinquished By: [Signature]	Date: 3/1/16	Time: 1440	Received By: [Signature]	ICE/IT: _____	COMMENTS: pg. 3 of 6
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	GOOD CONDITION _____	
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	HEAD SPACE ABSENT _____	
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	DECHLORINATED IN LAB _____	HAZARDOUS: VOAS O&G METALS OTHER PRESERVATION pH<2 _____
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	APPROPRIATE CONTAINERS _____	
Relinquished By: _____	Date: _____	Time: _____	Received By: _____	PRESERVED IN LAB _____	



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY DAY DAY 5 DAY ^{5 day}
GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY
Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Jonathan Sanders Bill To: AEI

Company: AEI Consultants

E-Mail: jsanders@aeiconsultants.com

Tele: (925)746-6000 Fax: (925)746-6099

Project #: 345989 Project Name: Lucasey

Project Location: 2744 E. 11th Street, Oakland Purchase Order#: 103821

Sampler Signature: *[Signature]*

Analysis Request

SAMPLE ID	Location/ Field Point Name <i>(DEPTH)</i>	SAMPLING		# Containers	MATRIX								METHOD PRESERVED			HOLD		
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other		<i>Ice</i>	
SB-28-4	3	3-1-16	1118	4						X							X	X
SB-28-6	5		1130							X							X	X
SB-28-8	7		1135							X							X	X
SB-28-10	9		1215							X							X	X
SB-28-12	11		1220							X							X	X
SB-28-14	13		1225							X							X	X
SB-28-16	15		1230							X							X	X
SB-29-2	1		1442							X							X	X
SB-29-4	3		1443							X							X	X
SB-29-6	5		1448							X							X	X

Handwritten: cVOCs by 8260

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

Relinquished By: <i>[Signature]</i>	Date: 3/1/16	Time: 1940	Received By: <i>[Signature]</i>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° _____

GOOD CONDITION _____

HEAD SPACE ABSENT _____

DECHLORINATED IN LAB _____

APPROPRIATE CONTAINERS _____

PRESERVED IN LAB _____

COMMENTS: *Pg. 4 of 6*

VOAS O&G METALS OTHER HAZARDOUS:

PRESERVATION pH<2 _____



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
 www.mccampbell.com / main@mccampbell.com
 Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY DAY DAY 5 DAY 5 day
 GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY
 Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Jonathan Sanders Bill To: AEI
 Company: AEI Consultants
 E-Mail: jsanders@aeiconsultants.com
 Tele: (925) 746-6000 Fax: (925) 746-6099
 Project #: 345989 Project Name: Lucasey
 Project Location: 2744 E. 11th Street, Oakland Purchase Order#: 103821
 Sampler Signature: *J.S.*

Analysis Request

SAMPLE ID	Location/ Field Point Name <i>(Depth)</i>	SAMPLING		# Containers	MATRIX										METHOD PRESERVED		HOLD	
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other <i>Ice</i>			
SB-29-8	7	3/1/16	1449	1									X				X	
SB-29-10	9		1453										X				X	
SB-29-12	11		1454										X				X	
SB-29-14	13		1504										X				X	
SB-29-16	15		1506										X				X	
SB-30-3	2		1540										X				X	
SB-30-6	5		1546										X				X	
SB-30-12	11		1602										X				X	
SB-31-3	2		1629										X				X	
SB-31-8	7		1640										X				X	

C.Voc.s by 8260

~~XXXXXXXXXX~~

****MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.**

Relinquished By: <i>J.S.</i>	Date: 3/1/16	Time: 1940	Received By: <i>[Signature]</i>	ICE/IC°	COMMENTS: <i>pg. 5 of 6</i>
Relinquished By:	Date:	Time:	Received By:	GOOD CONDITION _____	
Relinquished By:	Date:	Time:	Received By:	HEAD SPACE ABSENT _____	
				DECHLORINATED IN LAB _____	
				APPROPRIATE CONTAINERS _____	
				PRESERVED IN LAB _____	
				VOAS O&G METALS OTHER HAZARDOUS:	
				PRESERVATION _____ pH<2 _____	



McC Campbell Analytical, Inc.

1534 Willow Pass Rd. / Pittsburg, Ca. 94565-1701
www.mcccampbell.com / main@mcccampbell.com
Telephone: (877) 252-9262 / Fax: (925) 252-9269

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 1 DAY DAY DAY 5 DAY

GeoTracker EDF PDF EDD Write On (DW) EQuIS 10 DAY

Effluent Sample Requiring "J" flag UST Clean Up Fund Project ; Claim # _____

Report To: Jonathan Sanders Bill To: AEI

Company: AEI Consultants

E-Mail: jsanders@aeiconsultants.com

Tele: (925) 746-6000 Fax: (925) 746-6099

Project #: 345989 Project Name: Lucasey

Project Location: 2744 E. 11th Street, Oakland Purchase Order#: 103821

Sampler Signature: *J.S.*

Analysis Request

SAMPLE ID	Location/ Field Point Name	SAMPLING		# Containers	MATRIX								METHOD PRESERVED						
		Date	Time		Ground Water	Waste Water	Drinking Water	Sea Water	Soil	Air	Sludge	Other	HCL	HNO ₃	Other	ICE			
SB-31-12	11 <i>(Depth)</i>	3/1/16		1						X							X	X	HOLD

EVOCs by 8260

**MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate \$250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

Relinquished By: <i>J.S.</i>	Date: 3/1/16	Time: 1940	Received By: <i>[Signature]</i>	ICE/°	COMMENTS: <i>pg. 6 of 6</i>
Relinquished By:	Date:	Time:	Received By:	GOOD CONDITION _____	
Relinquished By:	Date:	Time:	Received By:	HEAD SPACE ABSENT _____	
				DECHLORINATED IN LAB _____	
				APPROPRIATE CONTAINERS _____	
				PRESERVED IN LAB _____	
				VOAS O&G METALS OTHER HAZARDOUS:	
				PRESERVATION _____ pH<2 _____	



Sample Receipt Checklist

Client Name: AEI Consultants	Date and Time Received: 3/1/2016 19:40
Project Name: 345989; Lucasey	Date Logged: 3/2/2016
WorkOrder No: 1603047 Matrix: <u>Soil/Water</u>	Received by: Jena Alfaro
Carrier: <u>Client Drop-In</u>	Logged by: Maria Venegas

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample/Temp Blank temperature	Temp: 6°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

UCMR3 Samples:

Total Chlorine tested and acceptable upon receipt for EPA 522?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Free Chlorine tested and acceptable upon receipt for EPA 218.7, 300.1, 537, 539?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

 Comments:

