ADDITIONAL SITE CHARACTERIZATION RESULTS

224 RICKENBACKER CIRCLE

LIVERMORE, CALIFORNIA

SUBMITTED

TO

MR. ROBERT STRONG

SAN RAMON, CALIFORNIA

PREPARED

BY

ENGEO INCORPORATED

PROJECT NO. 7584.100.101

APRIL 8, 2008
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Mr. Robert Strong
500 Bollinger Canyon Way, Suite A4
San Ramon, CA 94583

Subject: 224 Rickenbacker Circle
Livermore, California

ADDITIONAL SITE CHARACTERIZATION RESULTS

Reference: ENGEO Inc.; Revised Work Plan for Additional Site Characterization; 224 Rickenbacker Circle, Livermore, California; Revised July 9, 2007; Project No. 7584.1.001.01.

Dear Mr. Strong:

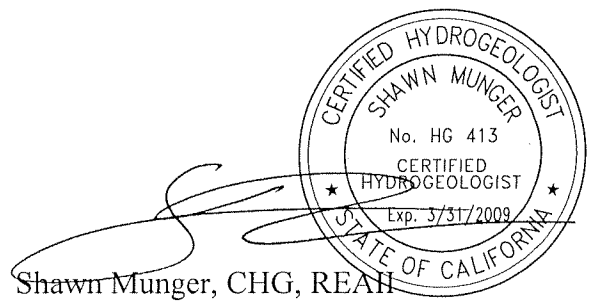
ENGEO Incorporated is pleased to present our findings for additional site characterization completed for 224 Rickenbacker Circle (Property) in Livermore, California (Figure 1). The report summarizes previous investigative activities along with work conducted December 2007 through March 2008 at the site. A copy of this report should be provided to the Alameda County Health Service Department for their review.

We are pleased to be of continued service to you on this project. If you have any questions, please contact us.

Very truly yours,

ENGEO Incorporated

Kelly Krohn
kk/sm/jb



Shawn Munger, CHG, REAII

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Letter of Transmittal

1.0 BACKGROUND

1.1 Site Description

The Property is a rectangular-shaped, level parcel of land, located at 224 Rickenbacker Circle in Livermore, California (Figure 1). The site is currently occupied by a single structure and paved parking areas. A landscaped area is located north of the building, along Rickenbacker Circle. The property is located within a commercial area. The Livermore Water Reclamation Plant is located approximately 750 feet to the west and the Livermore Municipal Airport is located approximately ½ mile west of the property. Residential development is located approximately 750 feet to the south and 1,500 feet to the east.

1.2 Site History

The Property was formerly operated as a dry cleaning facility that utilized a tetrachloroethene (PCE)-based machine. According to the property owner, approximately 10 years ago the PCE-based machine was replaced by an Exxon DF2000 clean solvent machine and subsequently a silicon-based machine. All equipment was removed from the building in October 2005. Based on a site reconnaissance, a former boiler room was located in the southeastern corner of the building and a conventional washing machine pad with a grated drain was observed just north of the boiler room. A concrete patch was visible on the floor, as indicated on Figure 2, which is the assumed sanitary sewer alignment. A sanitary sewer cleanout was visible between the building and Rickenbacker Circle.

In October 2005, JMK Environmental Solutions, Inc. advanced three soil borings to a depth of approximately 35 feet below the ground surface and recovered soil samples from each boring. Analytical results of the soil samples indicated the presence of PCE to the maximum depth

explored in the two borings nearest the dry cleaning machine location. Based on review of the laboratory results for the soil samples, several samples exhibited concentrations of PCE in excess of the San Francisco Bay Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for vapor intrusion. Groundwater was not encountered during the investigation, and therefore, no groundwater samples were collected.

A copy of the report prepared by JMK Environmental Solutions, Inc. was submitted to the Alameda County Health Services Agency along with a request for Site/Case Closure. Alameda County issued a letter dated July 6, 2006, in response to the request for case closure, requesting a work plan to delineate the extents of contamination at the Property.

In February 2007, ENGEO submitted an interim site characterization report to Alameda County Environmental Health (ACEH). The report included results of a soil vapor assessment as requested by ACEH as the first part of additional site characterization. Results from the soil vapor assessment indicated elevated concentrations of volatile organic compounds (VOCs). Based on the results of the survey, five boring locations were approved by ACEH to delineate the extents of the PCE-impacted soil and possible groundwater impact. The boring locations were selected based on previous soil data presented by JMK Environmental, results of soil gas survey, and to address potential uncertainty in the direction of groundwater flow.

Five borings were advanced under the supervision of ENGEO in March 2007, and soil and grab groundwater samples were recovered from each location. VOCs and total petroleum hydrocarbons as gasoline and diesel were reported in several soil samples. The reported concentrations for VOCs were below the San Francisco Regional Water Quality Control Board's environmental screening levels (ESLs) for commercial soil to indoor air (Table E-1) and screening levels for commercial land use where groundwater is a current or potential drinking water resource (Table F-1a). Additionally, the reported concentrations for TPH as diesel and

motor oil did not exceed the ESLs for commercial direct exposure (Table K-2), and would not be expected to impact commercial use of the property.

Analytical results from the grab groundwater samples indicated the presence of VOCs and total petroleum hydrocarbons as diesel. PCE was reported at concentrations exceeding the Maximum Contaminant Level (MCL) of 5 µg/L, as established by the California Department of Health Services, in several of the grab groundwater samples. All other VOCs were reported at concentrations below their respective MCLs. Additionally, the reported concentration of TPH as diesel did not exceed the ESLs for groundwater as a potential drinking water source.

1.3 Geology

The Property is located within the Livermore-Amador Valley, an east-west trending, inland structural basin located in northeastern Alameda County. The valley covers approximately 42,000 acres and is surrounded primarily by north-south trending faults and hills of the Diablo Range.

The valley is partially filled with recent alluvial fan, stream and lake deposits of Pleistocene-Holocene Age. The alluvial fans range in thickness from a few feet along the margins to nearly 800 feet in the west-central portion of the valley. The Livermore Formation (Pleistocene age), found below the majority of the alluvium in the groundwater basin, consists of beds of clayey gravels and sands, silts, and clays that are unconsolidated to semi-consolidated and estimated to be 4,000 feet thick in the southern and western portion of the basin.

Native soil encountered during advancement of the deep boring near the southwestern corner of the Property consisted of six primary zones: (1) Silty clay/sandy clay from surface to approximately 27 feet below the ground surface (bgs); (2) Silty sand with some subrounded fine

gravel from approximately 27 feet to approximately 42 feet bgs; (3) Silty clay from approximately 42 feet bgs to approximately 60 feet bgs; (4) Gravel grading to sand from approximately 60 feet bgs to approximately 72 feet bgs; (5) Silty clay from approximately 72 feet bgs to approximately 75 feet bgs; and (6) Gravel grading to sand from approximately 75 feet bgs to the bottom of the boring at 97.5 feet bgs.

1.4 Hydrogeology

A review of available hydrogeology information from the Zone 7 Water Agency indicates that although multiple aquifers have been identified in the Main Basin alluvium, wells have been classified generally as being in one of two aquifer zones, separated by a relatively continuous silty clay aquitard up to approximately 50 feet thick.

Upper Aquifer Zone - The upper aquifer zone consists of alluvial materials, including primarily sandy gravel and sandy clayey gravels. These gravels are usually encountered underneath the surficial clays (typically 20 to 40 feet below ground surface [bgs]) to about 80 to 150 feet bgs. Groundwater in this zone has been classified as generally unconfined.

Lower Aquifer Zone - All sediments encountered below the clay aquitard in the center portion of the basin have been known collectively as the Lower Aquifer Zone. The aquifer materials consist of semi-confined to confined, leaky, coarse-grained, water-bearing units interbedded with relatively impermeable, fine-grained units.

As described above, several unconfined water bearing zones appear to be present at the subject site, separated by relatively impermeable clay layers.

1.5 Scope of Services

Based on data gaps identified as part of the conceptual site model prepared during the work plan preparation, the scope of work provided by ENGEO for the additional site characterization consisted the following:

- Notifying Underground Service Alert to identify known subsurface utilities.
- Advancement of one deep boring with soil and groundwater sampling (Figure 2).
- Advancement of seven additional soil gas probes (Figure 2).
- Installation of three groundwater monitoring wells.
- Recovery of soil samples from each of the three monitoring well locations.
- Field screening of the soil samples for organic vapors during drilling activities using a photoionization detector.
- Analysis of the selected soil samples and groundwater samples for Volatile Organic Compounds (VOCs) and total petroleum hydrocarbons as gasoline, diesel, and motor oil.
- Preparation of a Utility Corridor Assessment.
- Preparation of this final report documenting the field and laboratory activities.

2.0 FIELD ACTIVITIES, LABORATORY TESTING AND RESULTS

2.1 Deep Soil Boring

As requested by ACEH, one deep soil boring, 1-B1, was advanced in the southwestern portion of the site (Figure 2). Field activities were conducted on November 27 and 28, 2007, using a Mini-Sonic sampling rig. The boring was advanced to approximately 100 feet below the ground surface and logged in the field by an ENGEO Staff Geologist. The boring log is presented in Appendix A.

2.1.1 Soil Sampling

The Mini-Sonic was used to recover soil samples in 1½-inch-diameter sample cores in clear acrylic tubes. The acrylic sampling tubes were then cut to collect the soil sample at the desired depth. During sampling, retrieved soils were screened for organic vapors using a portable photoionization detector. All sampling equipment was regularly decontaminated using appropriate controls and protocols. Soil samples for analyses were sealed with Teflon sheets secured by tight fitting plastic end caps and tape, and were labeled to indicate a unique sample number, sample location, and time and date collected.

The soil samples from Boring 1-B1 were analyzed for the following:

- Volatile Organic Compounds (VOCs) by EPA Method 8260B.
- Total Petroleum Hydrocarbons (TPH) as gasoline, diesel and motor oil by EPA Method 8015B.

The laboratory analytical reports prepared by TestAmerica are included in Appendix B. A summary of the soil analytical results are presented in Tables 1 and 2.

PCE was reported above laboratory detection limits within Boring 1-B1 at depths of 10 feet, 20 feet and 50 feet below the ground surface. Reported concentrations range from below laboratory detection limits to 0.079 milligrams per kilogram (mg/kg). The environmental screening level (ESL) as established by the San Francisco Regional Water Quality Control Board (SFRWQCB) for commercial/industrial land use deep soil where groundwater is a potential source of drinking water is 0.70 mg/kg. No other VOCs were reported above laboratory detection limits in the soil samples recovered from the deep boring.

Total petroleum hydrocarbons as diesel were reported in the soil samples recovered from depths of 20 and 50 feet below the ground surface at concentrations of 17 mg/kg and 1.1 mg/kg, respectively. The reported concentrations for TPH as diesel do not exceed either residential or commercial ESLs. TPH gasoline and motor oil were not reported above laboratory detection limits in any of the soil samples recovered from the deep boring.

2.1.2 Groundwater Sampling

Groundwater samples were recovered from Boring 1-B1 at discrete depths from zones identified as water-bearing layers from the deep boring using a modified hydropunch tool. The identified depths were 35 feet, 70 feet and 90 feet below the ground surface. The grab-groundwater samples were recovered using a dedicated polyethylene tube equipped with a check valve. Following recovery, the groundwater samples were decanted into appropriate laboratory glassware. The samples were labeled to indicate a unique sample number, sample location, and time and date collected. All soil and groundwater samples were placed in an ice-cooled chest for delivery to TestAmerica in Pleasanton, California.

The groundwater samples were analyzed for the following:

- Volatile Organic Compounds (VOCs) by EPA Method 8260B.
- Total Petroleum Hydrocarbons (TPH) as gasoline, diesel and motor oil by EPA Method 8015B.

The laboratory analytical reports prepared by TestAmerica Laboratories, Inc. are included in Appendix B. A summary of the groundwater analytical results are presented in Table 3.

VOCs detected in the groundwater samples include benzene, ethylbenzene, toluene and xylenes. Reported concentrations for the constituents in the groundwater sample recovered from 70 feet below the ground surface was 2.7 micrograms per liter (ug/L), 1.2 ug/L, 2.3 ug/L and 1.0 ug/L respectively. The reported concentrations were compared to the groundwater concentrations for evaluation of potential vapor intrusion concerns (Table E-1) ESL and the Maximum Contaminant Level (MCL) of as established by the California Department of Health Services. None of the detected VOCs were found to exceed the established screening levels. VOCs were not reported in the other two groundwater samples recovered from the deep boring. No chlorinated VOCs were reported for the groundwater samples recovered from the deep boring.

Total Petroleum Hydrocarbons (TPH) as gasoline and diesel was reported in the groundwater sample recovered from 70 feet below the ground surface at concentrations of 98 ug/L and 190 ug/L respectively. The reported concentrations are below the ESLs for groundwater as a potential source of drinking water. TPH as gasoline and diesel were not reported above laboratory detection limits for the two other samples recovered from the deep boring. TPH as motor oil was not reported above laboratory detection limits in any of the groundwater samples.

2.2 Soil Vapor Sampling

Seven additional soil vapor probes were advanced on December 17, 2007. The soil vapor samples were collected using protocols and procedures consistent with "Advisory-Active Soil Gas Investigations dated January 13, 2003" (Los Angeles Regional Water Quality Control Board and DTSC). Significant rainfall, as defined in the above listed document as ½ inch or greater, was not observed within 48 hours prior to sampling. The Geoprobe™ direct-push soil vapor probes utilized a hydraulic hammer to drive a 2-inch-diameter rod to approximately 5 feet below the ground surface, and a bentonite seal was applied between the drive rod and ground surface. A disposable drive tip at the end of the rod was fitted with disposable poly tubing to which a laboratory-assembled sampling manifold was attached.

One purge and one 6-liter sample canister (Summa) were securely attached to the manifolds. Each manifold consisted of a flow regulator and moisture filter that was used solely for one soil vapor probe. Each probe was allowed to equilibrate for approximately 30 minutes following installation. A leak test was performed for approximately 10 minutes by bringing the sampling manifold up to vacuum and observing any loss in pressure. After the 30-minute equilibration period, qualitative soil permeability observations were completed, and the entire sampling train was purged using seven purge volumes. A purge volume test was conducted during previous soil gas sampling activities at the site, and seven purge volumes was shown to produce the highest resultant concentrations of target analytes. Qualitative soil permeability observations were conducted by observing the changes in the canister pressures during purging. The volume of the sampling system was approximately 600 milliliters (mL) and was equipped with a flow regulator set for 200 milliliter per minute (mL/min). Based on the number of purge volumes and the flow rate, each location was purged for approximately 3.15 minutes. Following purging, samples were collected in the 6-liter Summa canisters. Samples times varied per location due to

differences in the lithology at each location. Table 5 summarizes the Summa canister pressures prior to and after sampling, as well as upon arrival to the laboratory.

For quality assurance purposes, a leak detection compound, rubbing alcohol (2-Propanol), was applied to gauze strips attached to system connections and seals along the sampling manifold. Additional gauze strips were placed around the bentonite seal at the ground surface, as well as at the top of the probe. Probe rods were decontaminated with a non-phosphate detergent and a triple wash between each soil boring location.

The collected samples were returned to Torrent Laboratory, Inc., a fixed-base laboratory in Milpitas, California under documented chain-of-custody. The samples were analyzed using EPA Method TO-15 for volatile organic compounds (VOCs).

The laboratory analytical reports as prepared by Torrent Laboratory, Inc. are presented in Appendix C. These values have been compared to the ESLs for evaluation of potential indoor air impacts. Volatile organic compounds were detected in all soil vapor samples collected; however, the detected concentrations were below ESLs. PCE in particular was reported at concentrations ranging from below laboratory detection limits to 64 ug/m^3, which are well below the ESL (1,400 ug/m^3) for commercial vapor intrusion. Analytical reports prepared by Torrent Laboratory, Inc. are included as Appendix C. A summary of the groundwater analytical results are presented in Table 3.

2.3 Monitoring Well Installation and Sampling

Three groundwater monitoring wells were installed at locations MW-1 through MW-3 (Figure 2). The selected location of the wells was based upon discussions with ACEH. The well

borings were advanced using a truck-mounted drill rig equipped with 8¼-inch-diameter hollow-stem augers on December 18, 2007.

The monitoring wells consist of 2-inch-diameter PVC casing with flush joints. The wells were constructed with approximately 25 feet of screened casing (0.01-inch slot width) and an appropriate length of solid PVC well casing (2-inch-diameter Schedule 40 PVC). The total depth of the monitoring wells is approximately 35 feet. A No. 2/16-sand-filter pack was placed from the base of the well to approximately one foot above the top of the screened interval. A ±12-inch-thick bentonite seal was placed at the top of the filter pack. The remaining annular space was backfilled with a cement-bentonite grout seal. The well was completed with flush-mounted monument. The top of the well casings were surveyed and secured with a locking waterproof cap. The drill cuttings were placed within sealed 55-gallon drums, and upon review of the laboratory analyses, a disposal plan for the soil cuttings will be developed.

On January 16, 2008, the wells were developed through purging to maximize the hydraulic connection between the well and the surrounding aquifer material and remove fine sediment to produce relatively non-turbid groundwater. Approximately 20 well volumes of water were removed during the development process. The purged water was placed on-site in Department of Transportation approved drums.

2.3.1 Soil Sampling

During monitoring well installation, soil samples were recovered at 5-foot intervals to the base of the boring and screened in the field with a photoionization detector (PID). Soil samples for laboratory analysis were recovered from locations exhibiting significant PID readings and at the top of the saturated zone.

The soil samples were analyzed for the following:

- Volatile Organic Compounds (VOCs) by EPA Method 8260B.
- Total Petroleum Hydrocarbons (TPH) as gasoline, diesel and motor oil by EPA Method 8015B.

The laboratory analytical reports prepared by TestAmerica are included in Appendix B. A summary of the soil analytical results are presented in Tables 1 and 2.

PCE was reported above laboratory detection limits in the soil samples recovered from MW-1 at depths of 5½ and 10½ feet below the ground surface at concentrations of 0.081 mg/kg and 0.068 mg/kg respectively. The environmental screening level (ESL) as established by the San Francisco Regional Water Quality Control Board (SFRWQCB) for commercial/industrial land use where groundwater is a potential source of drinking water is 0.70 mg/kg for both shallow and deep soils. No other VOCs were reported above laboratory detection limits in the soil samples recovered from the monitoring well locations.

Total petroleum hydrocarbons as diesel was reported in the soil sample recovered from MW-3 at a depth of 26 feet below the ground surface, at a concentration of 2.2 mg/kg. The reported concentrations for TPH as diesel do not exceed the ESLs for commercial/industrial land use. TPH diesel was not reported above laboratory detection limits in the other soil samples recovered from the monitoring well locations and TPH as gasoline and motor oil were not reported above laboratory detection limits in any of the soil samples recovered from the monitoring well locations.

2.3.2 Groundwater Sampling

On January 28, 2008, the three wells were purged using a 12-volt submersible pump. Water quality parameters including dissolved oxygen (DO), pH, and ORP were measured using a hand-held Hanna 9828 Multi Parameter Water Quality Meter with flow through cell. The

samples were decanted into pre-cleaned laboratory glassware and cooled in an ice chest until delivery under documented chain-of-custody to TestAmerica in Pleasanton, California. Data summary sheets prepared during the groundwater sampling are included as Appendix D.

The groundwater samples were analyzed for the following:

- Total Petroleum Hydrocarbons (TPH) as diesel and motor oil by EPA Method 8015B.
- Volatile Organic Compounds (VOCs) by EPA Method 8260B.

The laboratory analytical reports prepared by TestAmerica Laboratories, Inc. are included in Appendix B. A summary of the groundwater analytical results are presented in Table 3 and a table reporting the depths to groundwater is presented in Table 6.

PCE was reported above laboratory detection limits in the groundwater samples recovered from MW-1 and MW-2. Reported concentrations for the wells were 0.80 ug/L and 0.98 ug/L respectively. The reported concentrations were compared to the groundwater concentrations for evaluation of potential vapor intrusion concerns (Table E-1) ESL and the MCL (5 ug/L). The reported concentrations did not exceed the screening levels. No other VOCs were reported above laboratory detection limits.

The monitoring wells were surveyed by a PLS Surveys Inc. in February 2008. A copy of the report prepared by PLS Surveys Inc. is included as Appendix D. The initial monitoring of the three monitoring wells currently on Site indicates that the groundwater flow direction is to the northwest. Additionally, based on the initial depth to groundwater readings of the onsite wells, the groundwater gradient beneath the Site has been determined to be approximately 0.006 feet per foot (ft/ft). A groundwater elevation contour map is included as Figure 3.

3.0 UTILITY CORRIDOR ASSESSMENT

A utility corridor assessment was conducted in accordance with the December 15, 2004 DTSC Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air. As part of the assessment, facility records including copies of the utility maps, building "as-built' drawings, building construction specifications, and municipal utility corridor maps were reviewed as available.

Information available at the City of Livermore indicated that the storm drain, sanitary sewer and drinking water mains extend the length of Rickenbacker Circle, near the center of the street section. Plans indicate that a 24-inch storm drain is located approximately 10 feet bgs, an 8-inch sanitary sewer line is located approximately 6 feet bgs, and an 8-inch water main is located approximately 4 feet bgs. Based on a review of available 'as-built' plans, all utilities enter the site from Rickenbacker Circle. No information was readily available pertaining to the depth to gas and electrical lines; however, a contact in the City of Livermore Engineering Department indicated that as a general rule, no more that 24 inches of cover are recommended for gas and electrical lines.

The depth to groundwater at the site has been measured at approximately 25 feet below the ground surface. Based on the depth to groundwater, it is unlikely that the utility corridors will act as pathways for groundwater contaminant migration.

Soil vapor data collected from the locations near utility trenches originating within the building (SG-7, SG-10, SG-11 and SG-12) show decreasing concentrations of PCE as the distance from the former dry cleaning machine increases. Based on the analytical results and the location of the utility trenches at the Property, it appears that concentrations of constituents in the soil vapor decrease as the distance from the former dry cleaning machine increases; it is therefore unlikely that impacted soil vapor would migrate through on-site utility trenches to the street at concentrations that would adversely impact downgradient sites.

4.0 SITE CONCEPTUAL MODEL UPDATE

4.1 Current Soil Vapor, Soil and Groundwater Concentrations

4.1.1 Soil Vapor

Soil vapor samples were recovered on two separate occasions, in January 2007 and December 2007. The January 2007 samples were recovered by TEG-Northern California using the "syringe" method and analyzed by means of an on-site mobile laboratory using EPA method 8260. The December 2007 soil vapor sampling was conducted using conventional methods outlined in the "Advisory-Active Soil Gas Investigations document dated January 13, 2003" (Los Angeles Regional Water Quality Control Board and DTSC). The December 2007 samples were recovered in 6-liter Summa canisters with TO-15 analysis. A summary of soil vapor analytical results are presented in Table 4. Analytical results are compared to the San Francisco Regional Water Quality Control Board's (SFRWQCB's) environmental screening levels (ESLs[1]) for evaluation of potential indoor air impacts (Table E). A number of soil vapor samples exceeded the respective commercial ESLs

The soil vapor results are further discussed in section 5.1.

4.1.2 Soil Samples

Several VOCs have been detected in soil samples recovered from the Property including acetone, cis 1,2 dichloroethene, trans-1,2-dichloroethene, trichloroethene, and PCE. Acetone was detected in

[1] San Francisco Bay Regional Water Quality Control Board; November 2007, Interim Final, Screening for Environmental Concerns at Site with Contaminated Soil and Groundwater, Volume 1, Table E, Indoor Air and Soil Gas, Commercial/Industrial Land Use Exposure Scenario.

sample S-3 at a depth of 4 feet below the ground surface (bgs) at a concentration of 0.049 mg/kg. In sample S-3 at 2 and 4 feet bgs, cis-1,2-dichloroethene was detected at concentrations of 0.054 mg/kg to 0.061 mg/kg and trans-1,2-dichloroethene was detected at concentrations of 0.015 mg/kg to 0.0065 mg/kg, respectively. PCE was detected in sample S-3 at depths of 4 and 8 feet bgs at concentrations of 0.013 mg/kg and 0.0066 mg/kg respectively. Additionally, PCE was detected at concentrations ranging from 0.012 to 0.079 mg/kg in sample S-3 at 4, 8, and 10 feet bgs, and in boring MWB1 at depths of 5½ and 10½ ft bgs at concentrations of 0.081 and 0.068 mg/kg respectively. PCE was reported in the deep boring, 1-B1, at depths of 10, 20 and 50 ft bgs at concentrations ranging from 0.014 to 0.079 mg/kg. The reported VOC concentrations were not found to exceed established ESLs for commercial/industrial land use where groundwater is a potential source of drinking water. No VOCs were reported above laboratory detection limits for samples S-1, S-2, S-3, S-4 and S-5 recovered from the saturated zone at each sample location.

Total Petroleum Hydrocarbons (TPH) as diesel were reported at concentrations ranging from 1 to 17 mg/kg in soil samples recovered at sampling locations S-2, S-3, S-5, 1-B1 and MWB3@26. Two soil samples were recovered from the near the drain in the former boiler room, and reported concentrations were found to range from below laboratory detection limits to 190 mg/kg (P-1 at 5 feet). TPH as gasoline was reported at a concentration of 0.33 mg/kg at sample location S-3 at a depth of 2 feet bgs. TPH as motor oil was not reported above laboratory detection limits in any of the samples. The reported concentration of TPH as diesel recovered from 5 feet bgs at P-1, 190 mg/kg, exceeds the established ESL for commercial/industrial land use where groundwater is a potential source of drinking water. No other constituents were reported at concentrations exceeding the established ESLs. Analytical results for the shallow soil samples (recovered from 0 to 10 feet below the ground surface) are presented in Table 1 and deep soil samples (recovered from greater than 10 feet) are presented in Table 2.

4.1.3 Groundwater Samples

VOCs detected in the groundwater samples include benzene, ethylbenzene, cis-1,2-dichloroethene, trichloroethene, toluene, xylenes and PCE. Benzene, ethylbenzene and xylenes were reported in the groundwater sample recovered from the deep boring at 70 ft bgs (DB-1(GW@70)), at concentrations of 2.7 ug/L, 1.2 ug/L and 1.0 ug/L respectively. Cis-1,2-dichloroethene was reported in samples S-3 and S-5 at concentrations of 1.6 micrograms per liter (µg/L) and 0.54 µg/L. Additionally, trichloroethene was reported in samples S-3 and S-5 at concentrations of 2 µg/L and 2.2 µg/L respectively. Analytical results indicated the presence of toluene in samples S-3 through S-5, and DB-1(GW@70) at concentrations ranging from 0.86 µg/L to 2.3 µg/L. PCE was reported in samples S-2 through S-5, at concentrations ranging from 1.8 µg/L (sample S-2) to 36 µg/L (sample S-5). PCE was reported in the groundwater samples recovered from monitoring wells MW-1 and MW-2 at concentrations of 0.8 µg/L and 0.98 µg/L respectively. The reported concentrations were compared to the groundwater concentrations for evaluation of potential vapor intrusion concerns (Table E-1) ESL and the MCLs. Concentrations of PCE in the grab samples recovered from S-3, S-4 and S-5 were found to exceed the established MCL of 5 µg/L, but are below the ESL of 420 µg/L. No other constituents were reported above the MCL or ESL (Table E) screening levels.

Total Petroleum Hydrocarbons (TPH) as diesel was reported in the groundwater samples recovered at sample location S-4 and DB-1(GW@70) at concentrations of 70 µg/L and 190 µg/L. TPH as gasoline was reported in the groundwater samples recovered from DB-1(GW@70) at a concentration of 98 µg/L. TPH as motor oil was not reported above laboratory detection limits in any of the groundwater samples. No reported concentrations of TPH were found to exceed the established MCLs or ESLs (Table E-1). Groundwater analytical results are summarized in Table 3.

4.2 Sensitive Receptors

As part of the Soil and Groundwater Sampling Results report, a request was submitted to Zone 7 Water Agency to provide a ½-mile radius well search. Zone 7 provided a map depicting well locations (Figure 2), and two wells were identified approximately 360 feet southeast of the Property. In preparation of this work plan, additional information regarding the two wells was requested from Zone 7. According to Mr. Wyman Hong, the two wells located southeast of the Property are no longer in existence. Well 3S/2E-7C1 (open blue triangle) was destroyed on December 7, 1983, and it was an agricultural well with a 14-inch-diameter casing and 280 feet deep. Well 3S/2E-7D1 (yellow cross) cannot be located and most was likely destroyed by construction; this well was documented in a San Francisco Water Department report dated 1912. No other information regarding these two wells is available.

The nearest residence is located approximately 950 feet south of the Property, and Rancho Las Positas Elementary School is located approximately 1300 feet southeast of the site at 401 E Jack London Boulevard. Lake Del Valle, the local reservoir used for drinking water supply, is located approximately 6 miles southeast of the Property.

As described below, three monitoring wells were installed at the Property. Based on the initial depth to water readings, the groundwater flow direction at the Property appears to be to the northwest. Additionally, based on the initial readings of the onsite wells, the groundwater gradient beneath the Site has been determined to be approximately 0.006 feet per foot (ft/ft).

4.3 Exposure Pathways

A flowchart was created to evaluate potential exposure pathways, as shown on Figure 4. The site is currently occupied by a single structure located in a commercial area. Impacts from the former dry

cleaning facility are present in shallow soil below the building, in groundwater below and to the southwest of the building, and soil vapor throughout portions of the site. The primary chemical of concern, PCE, was stored and used onsite as part of the previous dry cleaning operations. It is suspected that surface spills of PCE and discharge of PCE-impacted wastewater were the release mechanisms that allowed PCE to enter the subsurface soil beneath the site. Through leaching, PCE has migrated from soil to groundwater beneath the site. Through volatilization of the impacts in soil and groundwater, soil vapor has been also impacted.

According to the well search performed by Zone 7 Water Agency, there are no domestic wells within ½-mile of the site. This information was confirmed by a windshield survey completed by ENGEO on May 22, 2007. Given the lack of nearby domestic wells and the limited impacts to groundwater at the site, it is unlikely that the ingestion, direct contact, or inhalation exposure pathways are complete for groundwater.

Inhalation of impacted vapors created from volatilization within the building was identified as a complete exposure pathway. We believe the potential for exposure to vapor inhalation is limited due to (1) industrial use of the site, (2) an existing passive ventilation system present in the structure, and (3) the relatively low concentrations reported from the December 2007 soil gas sampling.

The nearest surface water body identified is Lake Del Valle, the local reservoir used for drinking water supply, located approximately 6 miles southeast of the site. Due to the large distance between the site and Lake Del Valle, the potential migration of impacts to surface water or sediments was found to be incomplete.

5.0 DISCUSSION

5.1 Soil Vapor Analysis

The previous field soil vapor screening assessment conducted in January 2007 found significantly higher soil vapor results than the recent fixed based laboratory analyses. A specific reason for the noted discrepancy between the two soil vapor data sets is unknown. TEG used a "syringe" method for the recovery of the soil vapor samples with on-site mobile laboratory analysis using EPA 8260 methodology. It is also conceivable that syringes used for sample collection may have not been properly purged prior to sampling and may exhibit cross-contamination from other off-site sources. In addition, the EPA 8260 method used for mobile analysis was not specifically developed for air analysis. Discrepancies between 8260 and TO-15 analysis have been demonstrated in the past.

Review of the analytical results prepared by the fixed-base laboratory (Torrent) indicate that the air samples were diluted prior to analytical analysis. Discussions with the laboratory indicate that the use of a dilution does not bias the final analytical results, only raises the minimum reporting limit. A copy of the correspondence with the laboratory can be found in Appendix C.

Additional evaluation of soil vapor at the site is recommended to address the discrepancies between the January 2007 and December 2007 soil vapor sampling events.

5.2 Deep Boring

Review of soil and groundwater data from the deep boring (1-B1) found no significant constituents of concern. Total petroleum hydrocarbons and BTEX were reported at concentrations below ESLs/MCLs in the groundwater samples recovered at 70 feet; however,

given the lack of TPH/BTEX in the shallow groundwater samples, we would attribute the TPH/BTEX to off-site source(s).

5.3 Groundwater Monitoring Well Sampling

Low level PCE was reported for wells MW-1 and MW-2 at 0.8 ug/l and 0.98 ug/l, respectively. Based on groundwater elevation measurements, well MW-3 is located at the downgradient area of the site, with no PCE or other VOCs reported. This data suggest the PCE impacts in groundwater are limited in extent.

6.0 CONCLUSIONS

Several VOCs and total petroleum hydrocarbon were detected in the soil at the Property at concentrations below the environmental screening levels established by the SFRWQCB for commercial soil to indoor air (Table E-1) and for commercial land use where groundwater is a current or potential drinking water resource (Table F-1a). Soil impacts are generally limited to the area in the vicinity of the former dry cleaning machine and to a depth of approximately 20 feet below the ground surface.

Several VOCs were detected in the groundwater beneath the Property. Reported concentrations of PCE exceed the Maximum Contaminant Level of 5 ug/L as established by the California Department of Health Services for grab groundwater samples collected in March 2007; however, groundwater samples recovered from the monitoring wells in January 2008 did not report concentrations of PCE exceeding the established MCLs. Based on the depth to groundwater measurements recorded in January 2008, the direction of groundwater flow is to the northwest at a gradient of approximately 0.006 ft/ft. Analytical results from the sample location located northwest of the former dry cleaning machine (S-2) reported PCE concentrations in the groundwater less than the established MCL. In addition, the sample collected from the downgradient well MW-3 found no detectable PCE or VOCs, suggesting a plume of limited extent.

Initial screening level soil gas sampling conducted in January 2007 found significant levels of VOCs in soil gas; however, subsequent soil gas recovery in December 2007, using preferred sampling methodologies and test methods, found no significant soil gas impacts. While the soil gas data appears fundamentally in conflict, we believe the Summa canister recovery and TO-15 methodology to be representative of site conditions.

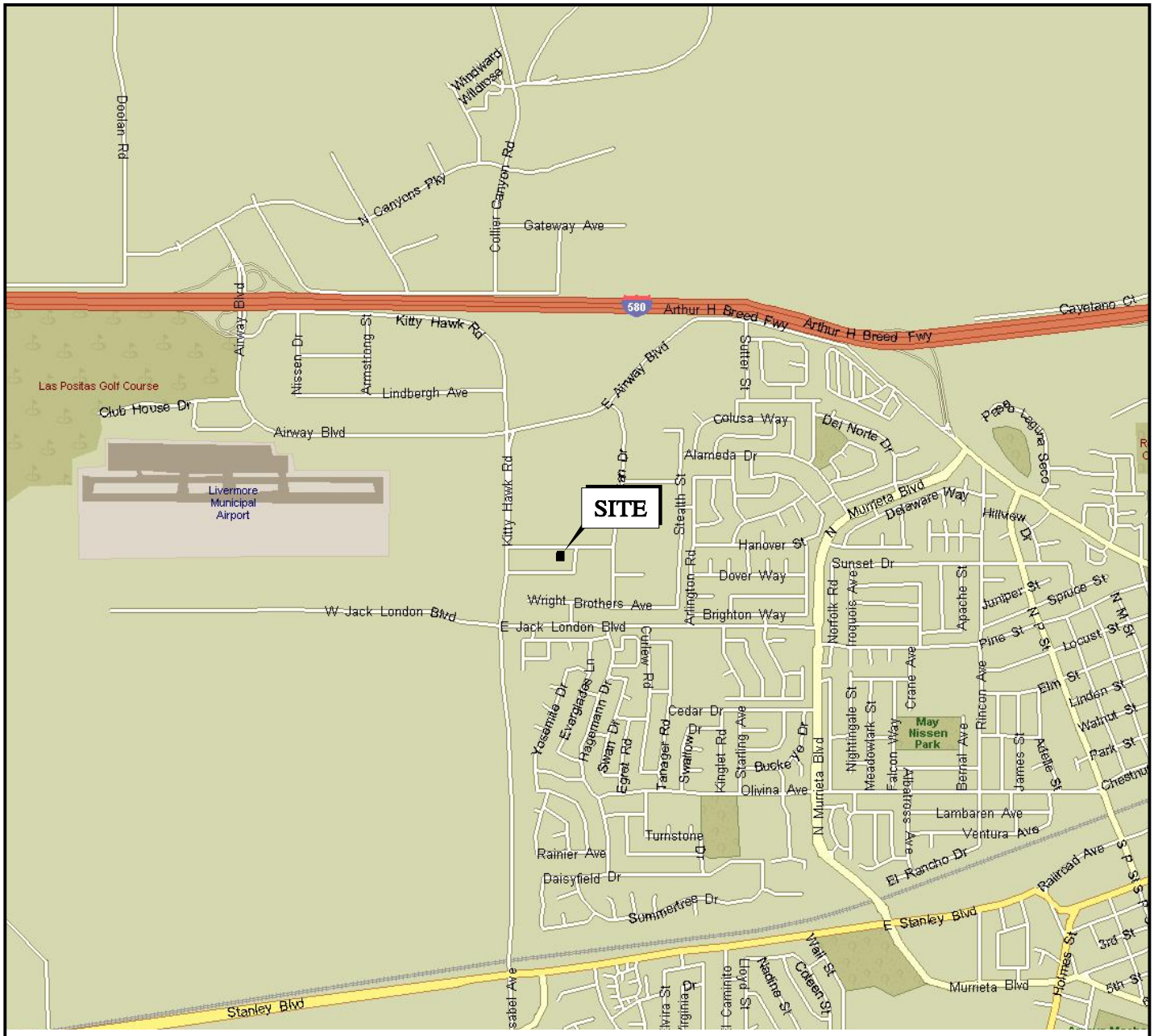
7.0 LIMITATIONS

We performed our professional services in accordance with generally accepted environmental engineering principles and practices currently employed in Northern California at the time of this report. No other warranty is expressed or implied.

We limited our investigation to the authorized scope of work. Our investigation is not intended to be comprehensive, to identify all potential concerns, or to guarantee that no additional environmental contamination beyond that described in this report exists at the site.

The findings in this report are valid as of the time of the investigation; however, changes in subsurface conditions can occur over time, whether due to natural processes or human activity on the Property or on surrounding properties. ENGEO Incorporated has prepared this report for the exclusive use of Mr. Robert Strong. It is recognized and agreed that ENGEO has assumed responsibility only for undertaking the study for the client. The responsibility for disclosures or reports to a third party and for remedial or mitigative action shall be solely that of the Client.

LIST OF FIGURES



0 FEET 2000
0 METERS 1000

BASE MAP SOURCE: MS STREETS AND TRIPS

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

VICINITY MAP
224 RICKENBACKER CIRCLE
LIVERMORE, CALIFORNIA

PROJECT NO.: 7584.100.101		FIGURE NO. 1
DATE: JULY 2008		
DRAWN BY: RJS	CHECKED BY: SM	

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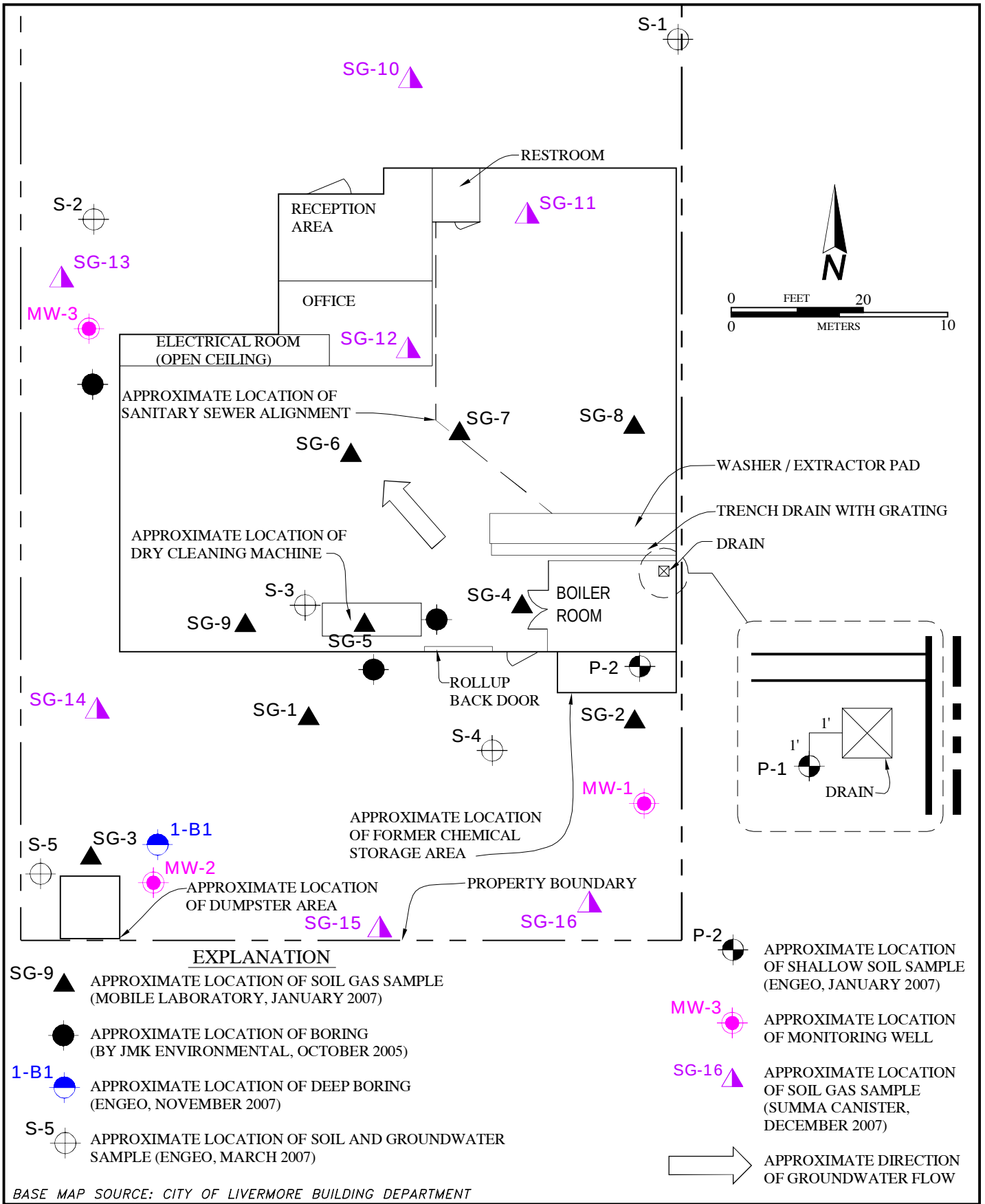

EXPLANATION

- SG-9 — APPROXIMATE LOCATION OF SOIL GAS SAMPLE (MOBILE LABORATORY, JANUARY 2007)
- APPROXIMATE LOCATION OF BORING (BY JMK ENVIRONMENTAL, OCTOBER 2005)
- 1-B1 — APPROXIMATE LOCATION OF DEEP BORING (ENGEO, NOVEMBER 2007)
- S-5 — APPROXIMATE LOCATION OF SOIL AND GROUNDWATER SAMPLE (ENGEO, MARCH 2007)
- P-2 — APPROXIMATE LOCATION OF SHALLOW SOIL SAMPLE (ENGEO, JANUARY 2007)
- MW-3 — APPROXIMATE LOCATION OF MONITORING WELL
- SG-16 — APPROXIMATE LOCATION OF SOIL GAS SAMPLE (SUMMA CANISTER, DECEMBER 2007)
- APPROXIMATE DIRECTION OF GROUNDWATER FLOW

BASE MAP SOURCE: CITY OF LIVERMORE BUILDING DEPARTMENT

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

SITE PLAN

224 RICKENBACKER CIRCLE
LIVERMORE, CALIFORNIA

PROJECT NO.:	7584.100.101
DATE:	JULY 2008
DRAWN BY:	RJS
CHECKED BY:	SM

FIGURE NO. 2

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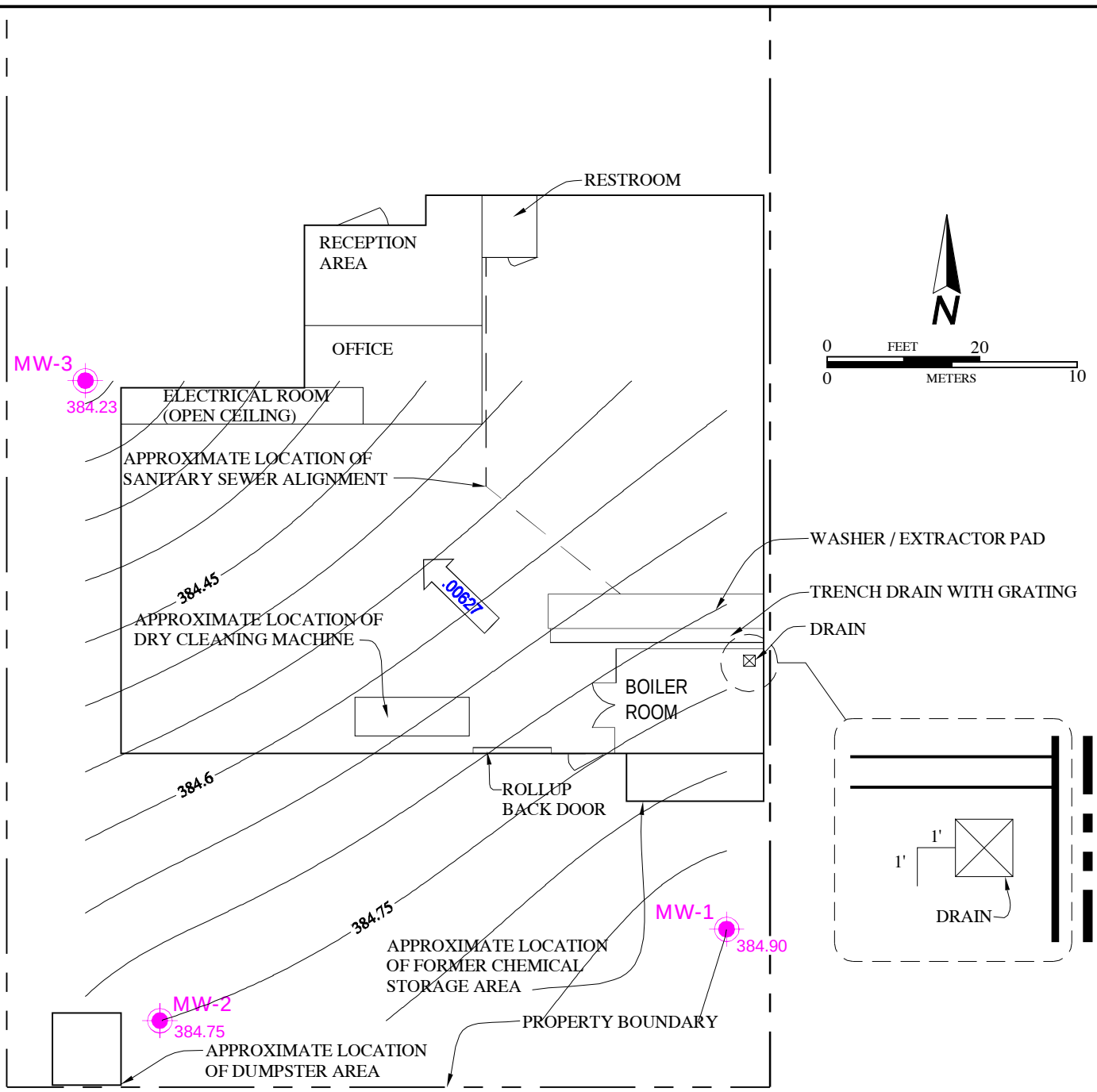
ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

MW-3 384.9 — APPROXIMATE LOCATION OF MONITORING WELL W/GROUNDWATER ELEVATION

.00627 — GROUNDWATER FLOW DIRECTION AND GRADIENT (FT/FT)

BASE MAP SOURCE: CITY OF LIVERMORE BUILDING DEPARTMENT

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

POTENTIOMETRIC SURFACE MAP

224 RICKENBACKER CIRCLE
LIVERMORE, CALIFORNIA

PROJECT NO.: 7584.100.101	FIGURE NO. 3
DATE: JULY 2008	
DRAWN BY: RJS	CHECKED BY: SM

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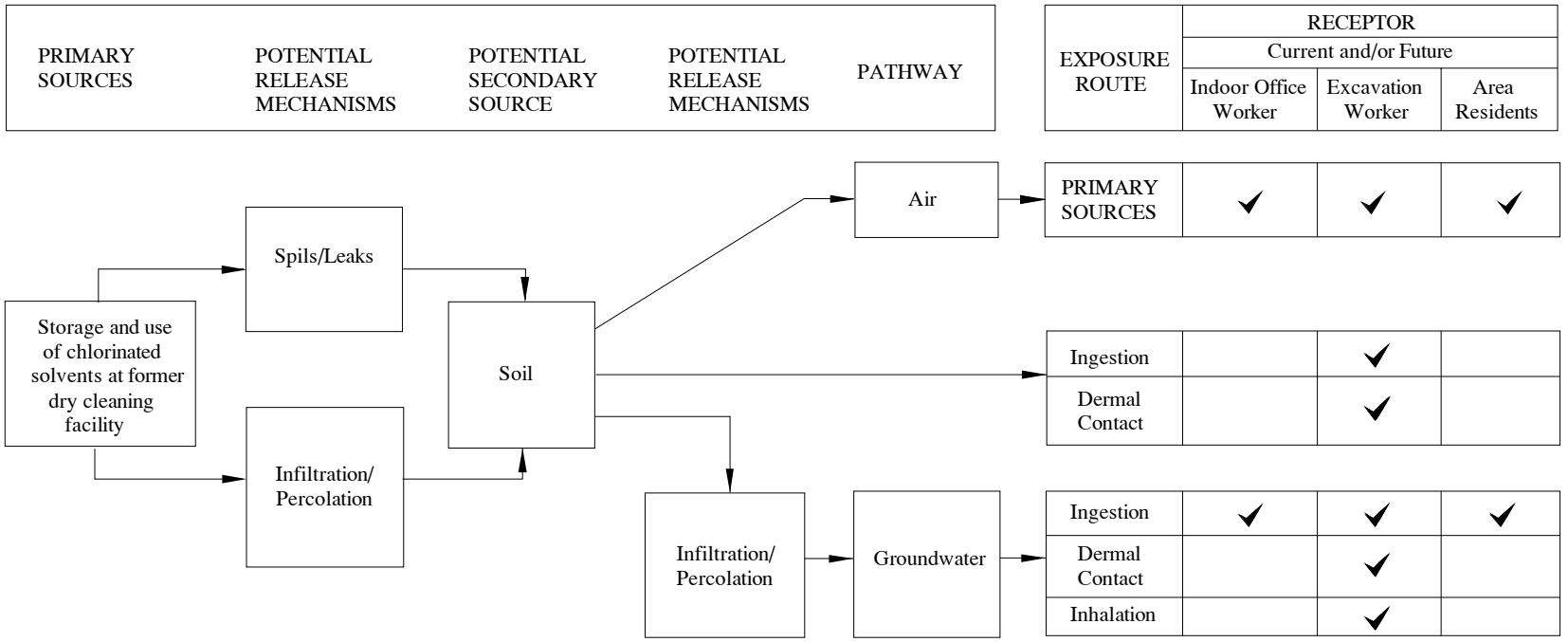

✓ Potential complete exposure pathway

ENGEO INCORPORATED
EXCELLENT SERVICE SINCE 1971

POTENTIAL EXPOSURE PATHWAYS

224 RICKENBACKER CIRCLE

LIVERMORE, CALIFORNIA

PROJECT NO.:	7584.100.101
DATE:	JULY 2008
DRAWN BY: RJS	CHECKED BY: SM

FIGURE NO. 4

ORIGINAL FIGURE PRINTED IN COLOR

TABLES

Table 1. Shallow Soil Data

	SFRWQCB	P-1	P-1	P-2	P-2	S-3@2'	S-3@4'	S-3@8'	MWB1@5-1/2'
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	ESL	1 ft	5 ft	1 ft	5 ft	2 ft	4 ft	8 ft	5 1/2 ft
		1/22/2007	1/22/2007	1/22/2007	1/22/2007	3/1/2007	3/1/2007	3/1/2007	12/18/2007
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TARGET ANALYTE									
	TABLE A (C/I)								
ACETONE	2.1	0.062	<0.049	<0.050	<0.047	<0.048	0.049	<0.048	<0.047
cis-1,2-DICHLOROETHENE	0.19	<0.0048	<0.0049	<0.0050	<0.0047	0.054	0.061	<0.0048	<0.0047
trans-1,2-DICHLOROETHENE	0.67	<0.0048	<0.0049	<0.0050	<0.0047	0.0065	0.015	<0.0048	<0.0047
TETRACHLOROETHENE	1	<0.0048	0.0055	<0.0050	<0.0047	<0.0048	0.012	0.079	0.081
TRICHLOROETHENE	0.46	<0.0048	<0.0049	<0.0050	<0.0047	<0.0048	0.013	0.0066	<0.0047
TPH-GASOLINE	83	<0.24	<0.23	<0.24	<0.25	0.33	<0.23	<0.24	<0.23
TPH-MIDDLE DISTILLATES	83	2.6	**190**	2.9	<0.99	4.5	1.0	<0.96	<1.0
TPH-RESIDUAL FUELS	2,500	<48	1000	<49	<50	<50	<47	<46	<50

Table 2. Subsurface Soil Data

	SFRWQCB	S-1@24'	S-2@26'	S-3@10'	S-3@27'	S-4@25'	S-5@30'	S@10'	S@20'	S@30'	S@40'	S@50'	S@60'
		Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
	ESL	24 ft	26 ft	10 ft	27 ft	25 ft	30 ft	10 ft	20 ft	30 ft	40 ft	50 ft	60 ft
		3/2/2007	3/2/2007	3/2/2007	3/2/2007	3/2/2007	3/2/2007	11/27/2007	11/27/2007	11/27/2007	11/27/2007	11/27/2007	11/27/2007
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TARGET ANALYTE													
	TABLE C (C/I)												
TETRACHLOROETHENE	0.70	<0.0045	<0.0049	0.023	<0.0047	<0.0049	<0.0048	0.079	0.017	<0.0049	<0.0050	0.014	<0.0050
TPH-MIDDLE DISTILLATES	83	<0.96	11	13	<0.99	<0.98	1.0	<1.0	17	<0.99	<0.99	1.1	<0.99

Table 2. Subsurface Soil Data

	SFRWQCB	S@70'	S@80'	S@90'	MWB1@10-1/2'	MWB2@25-1/2'	MW3@26'
		Soil	Soil	Soil	Soil	Soil	Soil
	ESL	70 ft	80 ft	90 ft	10 1/2 ft	25 1/2 ft	26 ft
		11/27/2007	11/27/2007	11/27/2007	12/18/2007	12/18/2007	12/19/2007
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
TARGET ANALYTE							
	TABLE C (C/I)						
TETRACHLOROETHENE	0.70	<0.0049	<0.0049	<0.0048	0.068	<0.0050	<0.0046
TPH-MIDDLE DISTILLATES	83	<0.98	<1.0	<0.99	<1.0	<1.0	2.2

Table 3. Groundwater Data

		SFRWQCB	S-1	S-2	S-3	S-4	S-5	DB-1(GW@35')	DB-1(GW@70')	DB-1(GW@90')	MW-1	MW-2	MW-3
	MCL	ESL	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
			3/2/2007	3/2/2007	3/2/2007	3/2/2007	3/2/2007	11/28/2007	11/28/2007	11/28/2007	1/28/2008	1/28/2008	1/28/2008
	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TARGET ANALYTE													
		TABLE E-1											
BENZENE	1	1,800	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	2.7	<0.50	<0.50	<0.50	<0.50
cis-1,2-DICHLOROETHENE	6	17000	<1.0	<1.0	1.6	<0.50	0.54	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ETHYLBENZENE	300	170,000	<1.0	<1.0	<0.50	<0.50	<0.50	<0.50	1.2	<0.50	<0.50	<0.50	<0.50
TETRACHLOROETHENE	5	420	<1.0	1.8	**27**	**16**	**36**	<0.50	<0.50	<0.50	0.8	0.98	<0.50
TRICHLOROETHENE	5	1,800	<1.0	<1.0	2.2	<0.50	2	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
TOLUENE	150	530000	<1.0	<1.0	0.86	0.96	1.8	<0.50	2.3	<0.50	<0.50	<0.50	<0.50
XYLENE(S)	1750	160,000	<2.0	<2.0	<1.0	<1.0	<1.0	<1.0	1.0	<1.0	<1.0	<1.0	<1.0
TPH - GASOLINE	--	--	<50	<50	<50	<50	<50	<50	98	<50	NA	NA	NA
TPH - MIDDLE DISTILLATES	--	--	<50	<50	<50	70	<50	<50	190	<50	NA	NA	NA

Bold Numbers - Exceed MCL or ESL Concentrations
-- - Screening level not provided
NA - Constituent not reported by laboratory

Table 4. Soil Vapor Data

	SFRWQCB	SG-1	SG-2	SG-3	SG-4	SG-5	SG-6	SG-7	SG-8	SG-9	SG-10	SG-11	SG-12	SG-12 (DUPLICATE)	SG-13	SG-14	SG-15	SG-16
		Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas	Soil Gas
	ESL	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft
		1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	1/22/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007	12/17/2007
	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³
TARGET ANALYTE																		
VOCs	**TABLE E (C/I)**																	
1,1-DICHLOROETHENE	160	<100	<100	<100	<100	**4700**	<100	<100	<100	<100	<1.3	<1.3	<1.2	<1.2	<0.79	<1.2	<1.2	<1.2
1,1-DIFLOUROETHANE	--	<100	<100	<100	<100	<100	<100	<100	<100	<100	NR	NR	NR	NR	NR	NR	NR	NR
1,2,4-TRIMETHYLBENZENE	--	NR	NR	NR	NR	NR	NR	NR	NR	NR	<1.4	<1.4	<1.4	<1.3	<0.89	2.5	<1.3	<1.3
2-BUTANONE	2,900,000	--	--	NR	NR	NR	NR	NR	NR	NR	58	77	31	28	42	<0.69	29	110
2-HEXANONE	--	--	--	NR	NR	NR	NR	NR	NR	NR	5.3	<1.4	<1.3	<1.3	<0.86	1.7	<1.3	<1.3
4-ETHYL TOLUENE	--	--	--	NR	NR	NR	NR	NR	NR	NR	<1.2	<1.2	<1.2	<1.1	<0.74	1.9	<1.1	<1.1
ACETONE	1,800,000	--	--	NR	NR	NR	NR	NR	NR	NR	100	180	70	62	110	<0.90	200	180
BENZENE	280	<100	<100	<100	<100	<100	<100	<100	<100	<100	2.8	3.5	2.5	2.2	3.1	<1.4	4.0	6.6
CIS-1,2-DICHLOROETHENE	20,000	<100	<100	17,000	450	**780,000 (50)**	<100	470	<100	1,700	<0.90	<0.88	<0.86	<0.82	<0.55	<0.87	<0.81	7.9
ETHYLBENZENE	580,000	<100	<100	<100	<100	<100	<100	120	<100	<100	<0.51	<0.49	<0.48	<0.46	<0.31	1.7	<0.46	8.2
HEXANE	--	--	NR	NR	NR	NR	NR	NR	NR	NR	17	<2.8	<2.8	<2.7	27	<2.8	59	<2.7
TETRACHLOROETHENE	1,400	**16,000**	**15,000**	**38,000**	**11,000**	**860,000 (50)**	**25,000**	**5,700**	**4,300**	**4,100**	<2.1	64	10	8.7	<1.3	<2.0	<1.9	15
TOLUENE	180,000	<200	320	220	210	<200	250	550	270	270	31	25	16	14	48	3.3	68	30
TRANS-1,2-DICHLOROETHENE	41,000	<100	<100	<100	<100	**140,000 (50)**	<100	<100	<100	<100	<0.90	<0.88	<0.86	<0.82	<0.55	<0.87	<0.81	8.2
TRICHLOROETHENE	4,100	150	480	**18,000**	1,200	**4,600,000 (50)**	1,300	3,000	310	3,100	<0.86	<0.83	<0.82	<0.78	<0.53	<0.83	<0.77	22
VINYL CHLORIDE	100	<100	<100	<100	<100	**1,800**	<100	<100	<100	<100	<0.40	<0.39	<0.39	<0.37	<0.25	<0.39	<0.37	<0.32
XYLENE(S)	58,000	<100	120	<100	<100	<100	<100	450	100	130	48	49	31.4	26.3	43.2	8	50	59

Bold Numbers - Exceed ESL Concentrations
-- - Screening level not provided
NR - Constituent not reported by laboratory

Table 5. Summa Canister Pressures

Sample Location	Before Sampling (mm Hg)	After Sampling (mm Hg)
SG-10	-20	-7
SG-11	-30	-7
SG-12	-30	-6
SG-13	-30	-7
SG-14	-30	-7
SG-15	-30	-7
SG-16	-30	-7

Table 6. Monitoring Well Depth to Groundwater

	Date	Depth to Water from Top of Casing (ft)	Water Elev (msl)
MW-1	1/28/2008	25.10	384.90
MW-2	1/28/2008	25.23	384.75
MW-3	1/28/2008	25.25	384.23

APPENDIX A

Boring Logs

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LOG OF BORING MW-B1

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/18/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: J. Preece / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			Asphalt				17		Flush-Mounted Well Cover
			WELL GRADED SAND WITH GRAVEL (SW), gray, very dense, moist, well graded						
			SILTY CLAY (CL), dark brown, stiff, moist, slightly porous				10*		
			SILTY CLAY (CH), dark gray, stiff, moist						
	1		Grades to dark olive brown.						
5							0.4		
	2								
			SILTY GRAVEL (GM), light olive brown to light olive gray, loose, moist to dry, fine- to coarse-grained sand, and fine gravel						
10	3						0.7		Bentonite Seal
	4								0.01-inch slot width. No. 2/16 sand filter pack.
15							0.4		
	5								
	6								
20									

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/25/08

ENGEO
Expect Excellence

LOG OF BORING MW-B1

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/18/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: J. Preece / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			SILTY CLAY (ML), light orange mottled with light gray, stiff, moist to wet, trace fine-grained sand						
	7								
			SILTY SAND (SM), light orange mottled with light gray, stiff, moist to wet, trace fine-grained sand		▼				
25									
	8								
			SILTY CLAY (ML), light orange mottled with light gray, stiff, saturated						
	9								
30									
			SILTY SAND (SM), light orange mottled with light gray, stiff, saturated, trace fine-grained sand						
	10								Bottom Plug
35									
			Bottom of boring at approximately 35 feet.						

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/25/08

ENGEO
Expect Excellence

LOG OF BORING MW-B2

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/18/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			Asphalt						Flush-Mounted Well Cover
			WELL GRADED SAND WITH GRAVEL (SW), gray, very dense, moist, well graded						
			SILTY CLAY (CL), dark orangeish brown mottled with grayish brown, stiff, moist, trace fine-grained sand						
	1								
5			Grades to dark brown, some fine-grained sand, some fine subrounded gravel.				0.1		
	2								
			Grades to light brown with orange and black mottling.						
10	3						0.0		Bentonite Seal
	4								0.01-inch slot width. No. 2/16 sand filter pack.
15							0.0		
	5								
			SILTY GRAVEL (GM), light olive brown and brownish gray, loose to medium dense, moist, with fine- to medium-grained sand, and subrounded fine gravel						
20	6								

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/25/08

ENGEO
Expect Excellence

LOG OF BORING MW-B2

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/18/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
							0.1		
			SILTY CLAY (CL), brown mottled with orangeish gray, stiff, moist to saturated, trace fine-grained sand						
	7								
			Grades to some fine grained sand and fine grained, subrounded gravel.						
25							0.0		
	8								
			SILTY GRAVEL (GM), grayish brown, loose to medium dense, saturated, with fine- to medium-grained sand, and subrounded fine gravel						
	9								
30							0.0		
	10								
							0.0		Bottom Plug
35			Bottom of boring at approximately 35 feet.						

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/25/08

ENGEO
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LOG OF BORING MW-B3

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/19/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			Asphalt						Flush-Mounted Well Cover
			WELL GRADED SAND WITH GRAVEL (SW), gray, very dense, moist, well graded				0.0		
			SILTY CLAY (CL), dark brown, stiff, moist, trace fine-grained sand						
	1								
5							0.0		
	2								
			SILTY SAND (SM), grayish brown to olive brown, medium dense, moist, some clay						
10	3						0.0		Bentonite Seal
	4								0.01-inch slot width. No. 2/16 sand filter pack.
			SILTY GRAVEL (GP), olive brown to grayish brown, medium dense, moist to saturated, fine- to coarse-grained sand, and fine gravel						
15							0.0		
	5								
	6								
20									

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/25/08

ENGEO
Expect Excellence

LOG OF BORING MW-B3

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/19/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			SILTY GRAVEL (GP), olive brown to grayish brown, medium dense, moist to saturated, fine- to coarse-grained sand, and fine gravel				0.0		
	7								
25							0.0		
	8								
			SILTY CLAY (CL), dark olive brown mottled with orangeish brown, stiff, saturated, some fine-grained sand, and fine gravel						
	9								
30							0.0		
	10								
			SILTY GRAVEL (GW), olive brown to grayish brown, medium dense, saturated, fine- to coarse-grained sand, and fine gravel						Bottom plug
35							0.0		
			Bottom of boring at approximately 35 feet.						

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/25/08

ENGEO
Expect Excellence

LOG OF BORING 1-B1

Environmental Assessment
Rickenbacker Assement
Livermore, California
07584.100.101

DATE DRILLED: 11/27/2007
HOLE DEPTH: Approx. 97½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (FT-MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / JJT
DRILLING CONTRACTOR: RSI
DRILLING METHOD: Rotosonic
HAMMER TYPE: N/A

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx
			4 inches of Asphalt Concrete.				1.9	
			SILTY CLAY (CL), dark brown, moist				0.4	
	1						1.4	
							0	
5							0.7	
	2						2.3	
							1.8	
							1.7	
			Grades medium brown, trace to some fine-grained sand.				1.2	
10	3		Grades orange with black spots.				0.7	
			Grades with gray orange mottling.				0.8	
							0.3	
	4							
15								
	5						0.4	
			SANDY CLAY (SC), brown, moist, with subrounded fine gravel					
	6							
20								

LOG - ENVIRONMENTAL 07584100101 - RNB ADDITIONAL STUDIES.GPJ ENGEO INC.GDT 12/7/07

ENGEO
Expect Excellence

LOG OF BORING 1-B1

Environmental Assessment
Rickenbacker Assement
Livermore, California
07584.100.101

DATE DRILLED: 11/27/2007
HOLE DEPTH: Approx. 97½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (FT-MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / JJT
DRILLING CONTRACTOR: RSI
DRILLING METHOD: Rotosonic
HAMMER TYPE: N/A

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx
			4 inches of Asphalt Concrete.				1.9	
			SILTY CLAY (CL), dark brown, moist				0.4	
	1						1.4	
							0	
5							0.7	
	2						2.3	
							1.8	
							1.7	
			Grades medium brown, trace to some fine-grained sand.				1.2	
10	3		Grades orange with black spots.				0.7	
			Grades with gray orange mottling.				0.8	
							0.3	
	4							
15								
	5						0.4	
			SANDY CLAY (SC), brown, moist, with subrounded fine gravel					
	6							
20								

ENGEO
Expect Excellence

LOG OF BORING 1-B1

Environmental Assessment
Rickenbacker Assement
Livermore, California
07584.100.101

DATE DRILLED: 11/27/2007
HOLE DEPTH: Approx. 97½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (FT-MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / JJT
DRILLING CONTRACTOR: RSI
DRILLING METHOD: Rotosonic
HAMMER TYPE: N/A

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx
			Sandy Clay (continued)					
	7							
			SILTY CLAY (CL), gray, moist, some fine-grained sand				0.3	
25								
	8							
			SILTY SAND (SC), brownish yellow, moist, trace clay, some subrounded fine gravel				0	
	9							
30								
			Grades with subrounded fine to coarse gravel.					
	10							
35								
	11						0	
	12						0.2	
40								

LOG - ENVIRONMENTAL 07584100101 - RNB ADDITIONAL STUDIES.GPJ ENGEO INC.GDT 12/7/07

ENGEO
Expect Excellence

LOG OF BORING 1-B1

Environmental Assessment
Rickenbacker Assement
Livermore, California
07584.100.101

DATE DRILLED: 11/27/2007
HOLE DEPTH: Approx. 97½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (FT-MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / JJT
DRILLING CONTRACTOR: RSI
DRILLING METHOD: Rotosonic
HAMMER TYPE: N/A

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx
			Silty Sand (continued)					
	13		SILTY CLAY (CL), gray, moist, some subrounded fine to coarse gravel				0.3	
45							0.5	
	14							
	15		SILTY CLAY (CL), gray, moist, with fine-grained sand, some subrounded fine gravel					
50							0.5	
	16		SILTY CLAY (CL), light brown mottled with black, moist, trace fine-grained sand					
55								
	17							
	18		Grades with subrounded fine to coarse gravel.					
60								

LOG - ENVIRONMENTAL 07584100101 - RNB ADDITIONAL STUDIES.GPJ ENGEO INC.GDT 12/7/07

ENGEO
Expect Excellence

LOG OF BORING 1-B1

Environmental Assessment
Rickenbacker Assement
Livermore, California
07584.100.101

DATE DRILLED: 11/27/2007
HOLE DEPTH: Approx. 97½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (FT-MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / JJT
DRILLING CONTRACTOR: RSI
DRILLING METHOD: Rotosonic
HAMMER TYPE: N/A

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx
	19		GRAVEL (GM), grayish black, wet, with medium- to coarse-grained sand, trace silt, with subrounded coarse gravel				0.1	
65	20						0.1	
	21		Grades trace to some clay.					
70	22		SAND (SP), brown, wet, medium-grained sand, clay, trace subrounded to rounded fine gravel.				0.3	
			SILTY CLAY (CL), brown, moist, with fine- to coarse-grained sand, some subrounded fine gravel Grades to trace gravel and some sand.					
75	23		GRAVEL (GM), grayish brown, wet, subrounded fine gravel, with fine- to coarse-grained sand, with silt					
	24		SAND (SM), brown, wet, medium-grained sand, with subrounded fine gravel, some silt				0	
80								

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Expect Excellence

LOG OF BORING 1-B1

Environmental Assessment
Rickenbacker Assement
Livermore, California
07584.100.101

DATE DRILLED: 11/27/2007
HOLE DEPTH: Approx. 97½ ft.
HOLE DIAMETER: 4.0 in.
SURF ELEV (FT-MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / JJT
DRILLING CONTRACTOR: RSI
DRILLING METHOD: Rotosonic
HAMMER TYPE: N/A

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx
			GRAVEL (GM), brown, wet, subrounded coarse gravel, some silt, some clay					
	25		SAND (SP), brown, saturated, medium-grained sand, trace silt				0	
			Grades to dark olive.					
85	26							
	27							
90								
	28						0.2	
			Grades fine to coarse subrounded gravel.					
95	29							
							1.3	
			Bottom of boring at approximately 97 1/2 feet. Ground water measured at approximately 42 feet.					

LOG - ENVIRONMENTAL 07584100101 - RNB ADDITIONAL STUDIES.GPJ ENGEO INC.GDT 12/7/07

LOG OF BORING MW-B1

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/18/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: J. Preece / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			Asphalt				17		
			WELL GRADED SAND WITH GRAVEL (SW), gray, very dense, moist, well graded						
			SILTY CLAY (CL), dark brown, stiff, moist, slightly porous				10*		
			SILTY CLAY (CH), dark gray, stiff, moist						
	1		Grades to dark olive brown.						
5							0.4		
	2								
			SILTY GRAVEL (GM), light olive brown to light olive gray, loose, moist to dry, fine- to coarse-grained sand, and fine gravel						
10	3						0.7		
	4								0.01-inch slot width. No. 2/16 sand filter pack.
15							0.4		
	5								
	6								
20									

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/15/08

LOG OF BORING MW-B1

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/18/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: J. Preece / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			SILTY CLAY (ML), light orange mottled with light gray, stiff, moist to wet, trace fine-grained sand						
	7								
			SILTY SAND (SM), light orange mottled with light gray, stiff, moist to wet, trace fine-grained sand		▼				
25									
	8								
			SILTY CLAY (ML), light orange mottled with light gray, stiff, saturated						
	9								
30									
			SILTY SAND (SM), light orange mottled with light gray, stiff, saturated, trace fine-grained sand						
	10								
35			Bottom of boring at approximately 35 feet.						

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/15/08

LOG OF BORING MW-B2

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/18/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			Asphalt						
			WELL GRADED SAND WITH GRAVEL (SW), gray, very dense, moist, well graded						
			SILTY CLAY (CL), dark orangeish brown mottled with grayish brown, stiff, moist, trace fine-grained sand						
	1								
5			Grades to dark brown, some fine-grained sand, some fine subrounded gravel.				0.1		
	2								
			Grades to light brown with orange and black mottling.						
10	3						0.0		
	4								0.01-inch slot width. No. 2/16 sand filter pack.
15							0.0		
	5								
			SILTY GRAVEL (GM), light olive brown and brownish gray, loose to medium dense, moist, with fine- to medium-grained sand, and subrounded fine gravel						
20	6								

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/15/08

LOG OF BORING MW-B2

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/18/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
							0.1		
			SILTY CLAY (CL), brown mottled with orangeish gray, stiff, moist to saturated, trace fine-grained sand						
	7								
			Grades to some fine grained sand and fine grained, subrounded gravel.						
25							0.0		
	8								
			SILTY GRAVEL (GM), grayish brown, loose to medium dense, saturated, with fine- to medium-grained sand, and subrounded fine gravel						
	9								
30							0.0		
	10								
							0.0		
35									
			Bottom of boring at approximately 35 feet.						

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/15/08

LOG OF BORING MW-B3

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/19/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			Asphalt						
			WELL GRADED SAND WITH GRAVEL (SW), gray, very dense, moist, well graded				0.0		
			SILTY CLAY (CL), dark brown, stiff, moist, trace fine-grained sand						
	1								
5							0.0		
	2								
			SILTY SAND (SM), grayish brown to olive brown, medium dense, moist, some clay						
10	3						0.0		
	4								
			SILTY GRAVEL (GP), olive brown to grayish brown, medium dense, moist to saturated, fine- to coarse-grained sand, and fine gravel						0.01-inch slot width. No. 2/16 sand filter pack.
15							0.0		
	5								
	6								
20									

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/15/08

LOG OF BORING MW-B3

Well Installation
Rickenbacker Assesment
Livermore, California
7584.100.101

DATE DRILLED: 12/19/2007
HOLE DEPTH: Approx. 35 ft.
HOLE DIAMETER: 8.0 in.
SURF ELEV (MSL): Approx. 410 ft.

LOGGED / REVIEWED BY: R. Gandolfo / SM
DRILLING CONTRACTOR: Gregg Drilling & Testing
DRILLING METHOD: Hollow Stem Auger
HAMMER TYPE: Direct Push

Depth in Feet	Depth in Meters	Sample Type	DESCRIPTION	Log Symbol	Water Level	Blow Count/Foot	PID (ppm)	Unconfined Strength (tsf) *field approx	Well Construction
			SILTY GRAVEL (GP), olive brown to grayish brown, medium dense, moist to saturated, fine- to coarse-grained sand, and fine gravel				0.0		
25	7						0.0		
	8								
			SILTY CLAY (CL), dark olive brown mottled with orangeish brown, stiff, saturated, some fine-grained sand, and fine gravel						
30	9						0.0		
	10		SILTY GRAVEL (GW), olive brown to grayish brown, medium dense, saturated, fine- to coarse-grained sand, and fine gravel				0.0		
35			Bottom of boring at approximately 35 feet.						

LOG - ENVIRONMENTAL + WELL MONITOR WELLS.GPJ ENGEO INC.GDT 2/15/08

APPENDIX B

TESTAMERICA LABORATORIES, INC.

Laboratory Analytical Reports

7584.100.101
April 8, 2008
Revised July 23, 2008

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-11927-1

Job Description: Rickenbacker

For:
Engeo, Inc.
580 N Wilma Avenue
Suite A
Ripon, CA 95366-9502

Attention: Mr. Richard Gandolfo

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/04/2007

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Engeo, Inc. Job Number: 720-11927-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-11927-1	**S @ 10'**				
Tetrachloroethene		79	4.9	ug/Kg	8260B
720-11927-2	**S @ 20'**				
Tetrachloroethene		17	5.0	ug/Kg	8260B
Silica Gel Cleanup					
Diesel Range Organics [C10-C28]		17	0.99	mg/Kg	8015B
720-11927-5	**S @ 50'**				
Tetrachloroethene		14	4.9	ug/Kg	8260B
Silica Gel Cleanup					
Diesel Range Organics [C10-C28]		1.1	0.99	mg/Kg	8015B

METHOD SUMMARY

Client: Engeo, Inc. Job Number: 720-11927-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge and Trap for Solids	TAL SF		SW846 5030B
Purge and Trap for Solids	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Engeo, Inc. Job Number: 720-11927-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-11927-1	S @ 10'	Solid	11/27/2007 0925	11/27/2007 1655
720-11927-2	S @ 20'	Solid	11/27/2007 0930	11/27/2007 1655
720-11927-3	S @ 30'	Solid	11/27/2007 0940	11/27/2007 1655
720-11927-4	S @ 40'	Solid	11/27/2007 1010	11/27/2007 1655
720-11927-5	S @ 50'	Solid	11/27/2007 1300	11/27/2007 1655
720-11927-6	S @ 60'	Solid	11/27/2007 1300	11/27/2007 1655
720-11927-7	S @ 70'	Solid	11/27/2007 1440	11/27/2007 1655
720-11927-8	S @ 80'	Solid	11/27/2007 1515	11/27/2007 1655
720-11927-9	S @ 90'	Solid	11/27/2007 1620	11/27/2007 1655

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 10'

Lab Sample ID: 720-11927-1 Date Sampled: 11/27/2007 0925
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807006.D
Dilution: 1.0 Initial Weight/Volume: 5.07 g
Date Analyzed: 11/28/2007 1526 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.9
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.9
Chloroform		ND		4.9
Chloromethane		ND		9.9
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.9
Dichlorodifluoromethane		ND		9.9
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.9

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 10'

Lab Sample ID: 720-11927-1 Date Sampled: 11/27/2007 0925
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807006.D
Dilution: 1.0 Initial Weight/Volume: 5.07 g
Date Analyzed: 11/28/2007 1526 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.9
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		79		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.9
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	87	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	89	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 10'

Lab Sample ID: 720-11927-1
Client Matrix: Solid

Date Sampled: 11/27/2007 0925
Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/29/2007 1057
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.48 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.23

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	60 - 140
Toluene-d8 (Surr)	99	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 20'

Lab Sample ID: 720-11927-2 Date Sampled: 11/27/2007 0930
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807009.D
Dilution: 1.0 Initial Weight/Volume: 5.04 g
Date Analyzed: 11/28/2007 1641 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		9.9
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		9.9
Chloroform		ND		5.0
Chloromethane		ND		9.9
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		9.9
Dichlorodifluoromethane		ND		9.9
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		9.9

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 20'

Lab Sample ID: 720-11927-2 Date Sampled: 11/27/2007 0930
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807009.D
Dilution: 1.0 Initial Weight/Volume: 5.04 g
Date Analyzed: 11/28/2007 1641 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		9.9
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		17		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		9.9
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	50 - 138
1,2-Dichloroethane-d4 (Surr)	100	66 - 127
Toluene-d8 (Surr)	95	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 20'

Lab Sample ID: 720-11927-2 Date Sampled: 11/27/2007 0930
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B Analysis Batch: 720-29124 Instrument ID: Varian 3900A
Preparation: 5030B Prep Batch: 720-29065 Lab File ID: c:\saturnws\data\200711\11
Dilution: 1.0 Initial Weight/Volume: 5.30 g
Date Analyzed: 11/29/2007 1227 Final Weight/Volume: 10 mL
Date Prepared: 11/29/2007 0939

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	60 - 140
Toluene-d8 (Surr)	95	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 30'

Lab Sample ID: 720-11927-3 Date Sampled: 11/27/2007 0940
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807010.D
Dilution: 1.0 Initial Weight/Volume: 5.11 g
Date Analyzed: 11/28/2007 1706 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.8
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.8
Chloroform		ND		4.9
Chloromethane		ND		9.8
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.8
Dichlorodifluoromethane		ND		9.8
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.8

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 30'

Lab Sample ID: 720-11927-3 Date Sampled: 11/27/2007 0940
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807010.D
Dilution: 1.0 Initial Weight/Volume: 5.11 g
Date Analyzed: 11/28/2007 1706 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.8
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.8
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	94	50 - 138
1,2-Dichloroethane-d4 (Surr)	95	66 - 127
Toluene-d8 (Surr)	94	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 30'

Lab Sample ID: 720-11927-3
Client Matrix: Solid

Date Sampled: 11/27/2007 0940
Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/29/2007 1249
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.16 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	60 - 140
Toluene-d8 (Surr)	96	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 40'

Lab Sample ID: 720-11927-4 Date Sampled: 11/27/2007 1010
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807011.D
Dilution: 1.0 Initial Weight/Volume: 5.03 g
Date Analyzed: 11/28/2007 1731 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		9.9
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		9.9
Chloroform		ND		5.0
Chloromethane		ND		9.9
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		9.9
Dichlorodifluoromethane		ND		9.9
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		9.9

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 40'

Lab Sample ID: 720-11927-4 Date Sampled: 11/27/2007 1010
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807011.D
Dilution: 1.0 Initial Weight/Volume: 5.03 g
Date Analyzed: 11/28/2007 1731 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		9.9
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		9.9
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	93	50 - 138
1,2-Dichloroethane-d4 (Surr)	99	66 - 127
Toluene-d8 (Surr)	94	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 40'

Lab Sample ID: 720-11927-4
Client Matrix: Solid

Date Sampled: 11/27/2007 1010
Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/29/2007 1312
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.08 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.25

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	60 - 140
Toluene-d8 (Surr)	97	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 50'

Lab Sample ID: 720-11927-5 Date Sampled: 11/27/2007 1300
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807012.D
Dilution: 1.0 Initial Weight/Volume: 5.12 g
Date Analyzed: 11/28/2007 1756 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.8
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.8
Chloroform		ND		4.9
Chloromethane		ND		9.8
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.8
Dichlorodifluoromethane		ND		9.8
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.8

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 50'

Lab Sample ID: 720-11927-5 Date Sampled: 11/27/2007 1300
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807012.D
Dilution: 1.0 Initial Weight/Volume: 5.12 g
Date Analyzed: 11/28/2007 1756 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.8
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		14		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.8
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	50 - 138
1,2-Dichloroethane-d4 (Surr)	99	66 - 127
Toluene-d8 (Surr)	96	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 50'

Lab Sample ID: 720-11927-5
Client Matrix: Solid

Date Sampled: 11/27/2007 1300
Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/29/2007 1334
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.41 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.23

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	60 - 140
Toluene-d8 (Surr)	96	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 60'

Lab Sample ID: 720-11927-6 Date Sampled: 11/27/2007 1300
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807013.D
Dilution: 1.0 Initial Weight/Volume: 5.00 g
Date Analyzed: 11/28/2007 1821 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 60'

Lab Sample ID: 720-11927-6 Date Sampled: 11/27/2007 1300
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807013.D
Dilution: 1.0 Initial Weight/Volume: 5.00 g
Date Analyzed: 11/28/2007 1821 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		10
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	97	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	98	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 60'

Lab Sample ID: 720-11927-6
Client Matrix: Solid

Date Sampled: 11/27/2007 1300
Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/29/2007 1356
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.48 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.23

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	60 - 140
Toluene-d8 (Surr)	96	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 70'

Lab Sample ID: 720-11927-7 Date Sampled: 11/27/2007 1440
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807014.D
Dilution: 1.0 Initial Weight/Volume: 5.14 g
Date Analyzed: 11/28/2007 1846 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		19
Bromoform		ND		4.9
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.7
Chloroform		ND		4.9
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.7

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 70'

Lab Sample ID: 720-11927-7 Date Sampled: 11/27/2007 1440
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807014.D
Dilution: 1.0 Initial Weight/Volume: 5.14 g
Date Analyzed: 11/28/2007 1846 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	96	50 - 138
1,2-Dichloroethane-d4 (Surr)	100	66 - 127
Toluene-d8 (Surr)	96	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 70'

Lab Sample ID: 720-11927-7
Client Matrix: Solid

Date Sampled: 11/27/2007 1440
Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/29/2007 1419
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.12 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	91	60 - 140
Toluene-d8 (Surr)	95	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 80'

Lab Sample ID: 720-11927-8 Date Sampled: 11/27/2007 1515
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807015.D
Dilution: 1.0 Initial Weight/Volume: 5.08 g
Date Analyzed: 11/28/2007 1911 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		20
Bromoform		ND		4.9
Bromomethane		ND		9.8
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.8
Chloroform		ND		4.9
Chloromethane		ND		9.8
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.8
Dichlorodifluoromethane		ND		9.8
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.8

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 80'

Lab Sample ID: 720-11927-8 Date Sampled: 11/27/2007 1515
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807015.D
Dilution: 1.0 Initial Weight/Volume: 5.08 g
Date Analyzed: 11/28/2007 1911 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.8
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		ND		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.8
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	50 - 138
1,2-Dichloroethane-d4 (Surr)	99	66 - 127
Toluene-d8 (Surr)	97	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 80'

Lab Sample ID: 720-11927-8
Client Matrix: Solid

Date Sampled: 11/27/2007 1515
Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/29/2007 1441
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.35 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.23

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	60 - 140
Toluene-d8 (Surr)	99	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 90'

Lab Sample ID: 720-11927-9 Date Sampled: 11/27/2007 1620
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807016.D
Dilution: 1.0 Initial Weight/Volume: 5.26 g
Date Analyzed: 11/28/2007 1936 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.8
Acetone		ND		48
Benzene		ND		4.8
Dichlorobromomethane		ND		4.8
Bromobenzene		ND		4.8
Chlorobromomethane		ND		19
Bromoform		ND		4.8
Bromomethane		ND		9.5
2-Butanone (MEK)		ND		48
n-Butylbenzene		ND		4.8
sec-Butylbenzene		ND		4.8
tert-Butylbenzene		ND		4.8
Carbon disulfide		ND		4.8
Carbon tetrachloride		ND		4.8
Chlorobenzene		ND		4.8
Chloroethane		ND		9.5
Chloroform		ND		4.8
Chloromethane		ND		9.5
2-Chlorotoluene		ND		4.8
4-Chlorotoluene		ND		4.8
Chlorodibromomethane		ND		4.8
1,2-Dichlorobenzene		ND		4.8
1,3-Dichlorobenzene		ND		4.8
1,4-Dichlorobenzene		ND		4.8
1,3-Dichloropropane		ND		4.8
1,1-Dichloropropene		ND		4.8
1,2-Dibromo-3-Chloropropane		ND		48
Ethylene Dibromide		ND		4.8
Dibromomethane		ND		9.5
Dichlorodifluoromethane		ND		9.5
1,1-Dichloroethane		ND		4.8
1,2-Dichloroethane		ND		4.8
1,1-Dichloroethene		ND		4.8
cis-1,2-Dichloroethene		ND		4.8
trans-1,2-Dichloroethene		ND		4.8
1,2-Dichloropropane		ND		4.8
cis-1,3-Dichloropropene		ND		4.8
trans-1,3-Dichloropropene		ND		4.8
Ethylbenzene		ND		4.8
Hexachlorobutadiene		ND		4.8
2-Hexanone		ND		48
Isopropylbenzene		ND		4.8
4-Isopropyltoluene		ND		4.8
Methylene Chloride		ND		9.5

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 90'

Lab Sample ID: 720-11927-9 Date Sampled: 11/27/2007 1620
Client Matrix: Solid Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29067 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29041 Lab File ID: 112807016.D
Dilution: 1.0 Initial Weight/Volume: 5.26 g
Date Analyzed: 11/28/2007 1936 Final Weight/Volume: 10 mL
Date Prepared: 11/28/2007 1330

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		48
Naphthalene		ND		9.5
N-Propylbenzene		ND		4.8
Styrene		ND		4.8
1,1,1,2-Tetrachloroethane		ND		4.8
1,1,2,2-Tetrachloroethane		ND		4.8
Tetrachloroethene		ND		4.8
Toluene		ND		4.8
1,2,3-Trichlorobenzene		ND		4.8
1,2,4-Trichlorobenzene		ND		4.8
1,1,1-Trichloroethane		ND		4.8
1,1,2-Trichloroethane		ND		4.8
Trichloroethene		ND		4.8
Trichlorofluoromethane		ND		4.8
1,2,3-Trichloropropane		ND		4.8
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.8
1,2,4-Trimethylbenzene		ND		4.8
1,3,5-Trimethylbenzene		ND		4.8
Vinyl acetate		ND		48
Vinyl chloride		ND		4.8
Xylenes, Total		ND		9.5
2,2-Dichloropropane		ND		4.8

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	95	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	66 - 127
Toluene-d8 (Surr)	95	51 - 129

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 90'

Lab Sample ID: 720-11927-9
Client Matrix: Solid

Date Sampled: 11/27/2007 1620
Date Received: 11/27/2007 1655

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/29/2007 1503
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.22 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	98	60 - 140
Toluene-d8 (Surr)	97	70 - 130

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 10'

Lab Sample ID: 720-11927-1
Client Matrix: Solid

Date Sampled: 11/27/2007 0925
Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1237
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.13 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	89	41 - 105

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 20'

Lab Sample ID: 720-11927-2 Date Sampled: 11/27/2007 0930
Client Matrix: Solid Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1303
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.21 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		17		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	102	41 - 105

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 30'

Lab Sample ID: 720-11927-3
Client Matrix: Solid

Date Sampled: 11/27/2007 0940
Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1330
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.28 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	93	41 - 105

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 40'

Lab Sample ID: 720-11927-4
Client Matrix: Solid

Date Sampled: 11/27/2007 1010
Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1356
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.41 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	88	41 - 105

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 50'

Lab Sample ID: 720-11927-5
Client Matrix: Solid

Date Sampled: 11/27/2007 1300
Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1144
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.38 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		1.1		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	89	41 - 105

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 60'

Lab Sample ID: 720-11927-6
Client Matrix: Solid

Date Sampled: 11/27/2007 1300
Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1541
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.25 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	92	41 - 105

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 70'

Lab Sample ID: 720-11927-7
Client Matrix: Solid

Date Sampled: 11/27/2007 1440
Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1607
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.46 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.98
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	90	41 - 105

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 80'

Lab Sample ID: 720-11927-8
Client Matrix: Solid

Date Sampled: 11/27/2007 1515
Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1634
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.05 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	85	41 - 105

Client: Engeo, Inc. Job Number: 720-11927-1

Client Sample ID: S @ 90'

Lab Sample ID: 720-11927-9
Client Matrix: Solid

Date Sampled: 11/27/2007 1620
Date Received: 11/27/2007 1655

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 11/29/2007 1700
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.23 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		0.99
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	92	41 - 105

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Engeo, Inc. Job Number: 720-11927-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-29041					
LCS 720-29041/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-29041/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-29041/3-A	Method Blank	T	Solid	5030B	
720-11927-1	S @ 10'	T	Solid	5030B	
720-11927-1MS	Matrix Spike	T	Solid	5030B	
720-11927-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-11927-2	S @ 20'	T	Solid	5030B	
720-11927-3	S @ 30'	T	Solid	5030B	
720-11927-4	S @ 40'	T	Solid	5030B	
720-11927-5	S @ 50'	T	Solid	5030B	
720-11927-6	S @ 60'	T	Solid	5030B	
720-11927-7	S @ 70'	T	Solid	5030B	
720-11927-8	S @ 80'	T	Solid	5030B	
720-11927-9	S @ 90'	T	Solid	5030B	
Prep Batch: 720-29065					
LCS 720-29065/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-29065/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-29065/1-A	Method Blank	T	Solid	5030B	
720-11927-1	S @ 10'	T	Solid	5030B	
720-11927-1MS	Matrix Spike	T	Solid	5030B	
720-11927-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-11927-2	S @ 20'	T	Solid	5030B	
720-11927-3	S @ 30'	T	Solid	5030B	
720-11927-4	S @ 40'	T	Solid	5030B	
720-11927-5	S @ 50'	T	Solid	5030B	
720-11927-6	S @ 60'	T	Solid	5030B	
720-11927-7	S @ 70'	T	Solid	5030B	
720-11927-8	S @ 80'	T	Solid	5030B	
720-11927-9	S @ 90'	T	Solid	5030B	

Client: Engeo, Inc. Job Number: 720-11927-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-29067					
LCS 720-29041/1-A	Lab Control Spike	T	Solid	8260B	720-29041
LCSD 720-29041/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-29041
MB 720-29041/3-A	Method Blank	T	Solid	8260B	720-29041
720-11927-1	S @ 10'	T	Solid	8260B	720-29041
720-11927-1MS	Matrix Spike	T	Solid	8260B	720-29041
720-11927-1MSD	Matrix Spike Duplicate	T	Solid	8260B	720-29041
720-11927-2	S @ 20'	T	Solid	8260B	720-29041
720-11927-3	S @ 30'	T	Solid	8260B	720-29041
720-11927-4	S @ 40'	T	Solid	8260B	720-29041
720-11927-5	S @ 50'	T	Solid	8260B	720-29041
720-11927-6	S @ 60'	T	Solid	8260B	720-29041
720-11927-7	S @ 70'	T	Solid	8260B	720-29041
720-11927-8	S @ 80'	T	Solid	8260B	720-29041
720-11927-9	S @ 90'	T	Solid	8260B	720-29041
Analysis Batch:720-29124					
LCS 720-29065/2-A	Lab Control Spike	T	Solid	8260B	720-29065
LCSD 720-29065/3-A	Lab Control Spike Duplicate	T	Solid	8260B	720-29065
MB 720-29065/1-A	Method Blank	T	Solid	8260B	720-29065
720-11927-1	S @ 10'	T	Solid	8260B	720-29065
720-11927-1MS	Matrix Spike	T	Solid	8260B	720-29065
720-11927-1MSD	Matrix Spike Duplicate	T	Solid	8260B	720-29065
720-11927-2	S @ 20'	T	Solid	8260B	720-29065
720-11927-3	S @ 30'	T	Solid	8260B	720-29065
720-11927-4	S @ 40'	T	Solid	8260B	720-29065
720-11927-5	S @ 50'	T	Solid	8260B	720-29065
720-11927-6	S @ 60'	T	Solid	8260B	720-29065
720-11927-7	S @ 70'	T	Solid	8260B	720-29065
720-11927-8	S @ 80'	T	Solid	8260B	720-29065
720-11927-9	S @ 90'	T	Solid	8260B	720-29065

Report Basis
T = Total

Client: Engeo, Inc. Job Number: 720-11927-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-29037					
LCS 720-29037/2-A	Lab Control Spike	A	Solid	3550B	
LCSD 720-29037/3-A	Lab Control Spike Duplicate	A	Solid	3550B	
MB 720-29037/1-A	Method Blank	A	Solid	3550B	
720-11927-1	S @ 10'	A	Solid	3550B	
720-11927-1MS	Matrix Spike	A	Solid	3550B	
720-11927-1MSD	Matrix Spike Duplicate	A	Solid	3550B	
720-11927-2	S @ 20'	A	Solid	3550B	
720-11927-3	S @ 30'	A	Solid	3550B	
720-11927-4	S @ 40'	A	Solid	3550B	
720-11927-5	S @ 50'	A	Solid	3550B	
720-11927-6	S @ 60'	A	Solid	3550B	
720-11927-7	S @ 70'	A	Solid	3550B	
720-11927-8	S @ 80'	A	Solid	3550B	
720-11927-9	S @ 90'	A	Solid	3550B	
Analysis Batch:720-29107					
LCS 720-29037/2-A	Lab Control Spike	A	Solid	8015B	720-29037
LCSD 720-29037/3-A	Lab Control Spike Duplicate	A	Solid	8015B	720-29037
MB 720-29037/1-A	Method Blank	A	Solid	8015B	720-29037
720-11927-1	S @ 10'	A	Solid	8015B	720-29037
720-11927-1MS	Matrix Spike	A	Solid	8015B	720-29037
720-11927-1MSD	Matrix Spike Duplicate	A	Solid	8015B	720-29037
720-11927-2	S @ 20'	A	Solid	8015B	720-29037
720-11927-3	S @ 30'	A	Solid	8015B	720-29037
720-11927-4	S @ 40'	A	Solid	8015B	720-29037
720-11927-5	S @ 50'	A	Solid	8015B	720-29037
720-11927-6	S @ 60'	A	Solid	8015B	720-29037
720-11927-7	S @ 70'	A	Solid	8015B	720-29037
720-11927-8	S @ 80'	A	Solid	8015B	720-29037
720-11927-9	S @ 90'	A	Solid	8015B	720-29037

Report Basis
A = Silica Gel Cleanup

Client: Engeo, Inc. Job Number: 720-11927-1

Method Blank - Batch: 720-29041

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29041/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/28/2007 1447
Date Prepared: 11/28/2007 1330

Analysis Batch: 720-29067
Prep Batch: 720-29041
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 112807005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		50
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11927-1

Method Blank - Batch: 720-29041

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29041/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/28/2007 1447
Date Prepared: 11/28/2007 1330

Analysis Batch: 720-29067
Prep Batch: 720-29041
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 112807005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	92	50 - 138
1,2-Dichloroethane-d4 (Surr)	93	66 - 127
Toluene-d8 (Surr)	90	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11927-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29041

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29041/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/28/2007 1357
Date Prepared: 11/28/2007 1330

Analysis Batch: 720-29067
Prep Batch: 720-29041
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 112807003.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-29041/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/28/2007 1422
Date Prepared: 11/28/2007 1330

Analysis Batch: 720-29067
Prep Batch: 720-29041
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 112807004.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	91	91	80 - 120	1	20		
Chlorobenzene	90	91	86 - 115	1	20		
1,1-Dichloroethene	95	94	81 - 140	0	20		
Toluene	90	92	81 - 120	2	20		
Trichloroethene	92	92	82 - 118	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	99	98	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	99	66 - 127
Toluene-d8 (Surr)	96	96	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11927-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29041

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-11927-1	Analysis Batch:	720-29067	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-29041	Lab File ID:	112807007.D
Dilution:	1.0			Initial Weight/Volume:	5.00 g
Date Analyzed:	11/28/2007 1551			Final Weight/Volume:	10 mL
Date Prepared:	11/28/2007 1330				

MSD Lab Sample ID:	720-11927-1	Analysis Batch:	720-29067	Instrument ID:	Agilent 75MSD
Client Matrix:	Solid	Prep Batch:	720-29041	Lab File ID:	112807008.D
Dilution:	1.0			Initial Weight/Volume:	5.07 g
Date Analyzed:	11/28/2007 1616			Final Weight/Volume:	10 mL
Date Prepared:	11/28/2007 1330				

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	91	90	63 - 126	2	20		
Chlorobenzene	88	88	57 - 124	1	20		
1,1-Dichloroethene	93	94	66 - 149	1	20		
Toluene	90	89	54 - 131	3	20		
Trichloroethene	91	91	53 - 130	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	91	88	50 - 138
1,2-Dichloroethane-d4 (Surr)	98	95	66 - 127
Toluene-d8 (Surr)	94	89	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11927-1

Method Blank - Batch: 720-29065

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29065/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/29/2007 1035
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Toluene	ND		0.0050
Gasoline Range Organics (GRO)-C5-C12	ND		0.25

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	103	60 - 140
Toluene-d8 (Surr)	101	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29065

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29065/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/29/2007 0844
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-29065/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/29/2007 0950
Date Prepared: 11/29/2007 0939

Analysis Batch: 720-29124
Prep Batch: 720-29065
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\112
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	90	103	70 - 123	13	20		
Toluene	94	100	81 - 128	6	20		
Gasoline Range Organics (GRO)-C5-C12	69	74	51 - 97	7	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	107	60 - 140
Toluene-d8 (Surr)	99	93	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11927-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29065

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-11927-1	Analysis Batch: 720-29124	Instrument ID: Varian 3900A
Client Matrix:	Solid	Prep Batch: 720-29065	Lab File ID: c:\saturnws\data\200711\
Dilution:	1.0		Initial Weight/Volume: 5.32 g
Date Analyzed:	11/29/2007 1120		Final Weight/Volume: 10 mL
Date Prepared:	11/29/2007 0939		

MSD Lab Sample ID:	720-11927-1	Analysis Batch: 720-29124	Instrument ID: Varian 3900A
Client Matrix:	Solid	Prep Batch: 720-29065	Lab File ID: c:\saturnws\data\200711\1
Dilution:	1.0		Initial Weight/Volume: 5.14 g
Date Analyzed:	11/29/2007 1142		Final Weight/Volume: 10 mL
Date Prepared:	11/29/2007 0939		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	94	90	70 - 123	0	20		
Toluene	95	92	81 - 128	0	20		
Gasoline Range Organics (GRO)-C5-C12	68	63	51 - 97	4	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	91	60 - 140
Toluene-d8 (Surr)	93	99	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11927-1

Method Blank - Batch: 720-29037

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

Lab Sample ID: MB 720-29037/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/29/2007 1118
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.31 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		49

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	98	41 - 105

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29037

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

LCS Lab Sample ID: LCS 720-29037/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/29/2007 1025
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.14 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-29037/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 11/29/2007 1051
Date Prepared: 11/28/2007 1304

Analysis Batch: 720-29107
Prep Batch: 720-29037
Units: mg/Kg

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 30.38 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	74	71	50 - 130	4	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	86	87	41 - 105

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11927-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29037

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

MS Lab Sample ID:	720-11927-1	Analysis Batch: 720-29107	Instrument ID: Varian DRO4
Client Matrix:	Solid	Prep Batch: 720-29037	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 30.33 g
Date Analyzed:	11/29/2007 1726		Final Weight/Volume: 5 mL
Date Prepared:	11/28/2007 1304		Injection Volume:
			Column ID: PRIMARY

MSD Lab Sample ID:	720-11927-1	Analysis Batch: 720-29107	Instrument ID: Varian DRO4
Client Matrix:	Solid	Prep Batch: 720-29037	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 30.44 g
Date Analyzed:	11/29/2007 1753		Final Weight/Volume: 5 mL
Date Prepared:	11/28/2007 1304		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diesel Range Organics [C10-C28]	62	62	50 - 130	1	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
p-Terphenyl	96	85	41 - 105

Calculations are performed before rounding to avoid round-off errors in calculated results.

EVIRN TRENT

STL 720-11927

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: 168332

Date 11/27/07 Page 1 of 1

Report To

Attn: RICHARD GANDOLFO
Company: ENGEO
Address: 580 N. Wilma Ave Ste A
Phone: (209) 321-2665 Email: RGANDOLFO@engeo.com
Bill To:
Sampled By: R. Gandolfo
Attn:
Phone: 209 321 2665

Analysis Request

Sample ID	Date	Time	Mat.	Pres.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☒ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☒ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum ☐ Total (EPA 1664)	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				Number of Containers
S @ 10'	11/27	9:25	S	ice																						
S @ 20'		9:30																								
S @ 30'		9:40																								
S @ 40'		10:10																								
S @ 50'		13:00																								
S @ 60'		13:00																								
S @ 70'		15:40																								
S @ 80'		15:15																								
S @ 90'		16:26																								
~~S @ 100'~~																										

Project Info.

Project Name: Rickenbacker
Project#: 7584.1.001.01
PO#:
Credit Card#:

TAT: ☒ Day ☐ 72h ☐ 48h ☐ 24h Other:

Report: ☒ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID
Special Instructions / Comments:

*STL SF reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}.

Sample Receipt

# of Containers: 9
Head Space:
Temp: 5.9°C
Conforms to record:

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 16:55	Signature: Time:	Signature: Time:
Printed Name: RICHARD GANDOLFO Date: 11/27/07	Printed Name: Date:	Printed Name: Date:
Company: ENGEO	Company:	Company:
1) Received by:	**2) Received by:**	**3) Received by:**
Signature: [signature] Time: 16:55	Signature: Time:	Signature: Time:
Printed Name: T. Bullock Date: 11/27/07	Printed Name: Date:	Printed Name: Date:
Company: STL-SF	Company:	Company:

Rev 06/04

12/04/2007

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Login Sample Receipt Check List

Client: Engeo, Inc.

Job Number: 720-11927-1

Login Number: 11927
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

ANALYTICAL REPORT

Job Number: 720-11961-1

Job Description: 224 Rickenbacker Circle

For:
Engeo, Inc.
2010 Crow Canyon Place
Suite 250
San Ramon, CA 94583

Attention: Ms. Kelly Krohn

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
12/07/2007

Job Narrative
720-J11961-1

Comments
No additional comments.

Receipt
DB-1 (GW@70') 1 of 2 ambers did not have the depth on bottles. Through the process of elimination labeled as 70'. DB-1 (GW@95') 1 of 2 of the ambers: depth was 90" time matched with COC.

All other samples were received in good condition within temperature requirements.

GC/MS VOA
Method 8260B: Surrogate 1,2-DCA-d4 was outside control limits for 11931-1-MSD for batch 29173.
The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

GC Semi VOA
No analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Engeo, Inc. Job Number: 720-11961-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-11961-2	**DB-1 (GW@70')**				
Benzene		2.7	0.50	ug/L	8260B
Gasoline Range Organics (GRO)-C5-C12		98	50	ug/L	8260B
Ethylbenzene		1.2	0.50	ug/L	8260B
Toluene		2.3	0.50	ug/L	8260B
Xylenes, Total		1.0	1.0	ug/L	8260B
Silica Gel Cleanup					
Diesel Range Organics [C10-C28]		190	50	ug/L	8015B

METHOD SUMMARY

Client: Engeo, Inc. Job Number: 720-11961-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge-and-Trap for Aqueous Samples/Unpreserved	TAL SF		SW846 5030B
Purge-and-Trap for Aqueous Samples/Unpreserved	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Separatory Funnel Liquid-Liquid Extraction	TAL SF		SW846 3510C SGC

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Engeo, Inc. Job Number: 720-11961-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-11961-1	DB-1 (GW@35')	Water	11/28/2007 1000	11/28/2007 1810
720-11961-2	DB-1 (GW@70')	Water	11/28/2007 1340	11/28/2007 1810
720-11961-3	DB-1 (GW@95')	Water	11/28/2007 1520	11/28/2007 1810

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@35')

Lab Sample ID: 720-11961-1 Date Sampled: 11/28/2007 1000
Client Matrix: Water Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29171 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: c:\saturnws\data\200712\12
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/03/2007 1351 Final Weight/Volume: 40 mL
Date Prepared: 12/03/2007 1351

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@35')

Lab Sample ID: 720-11961-1
Client Matrix: Water

Date Sampled: 11/28/2007 1000
Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/03/2007 1351
Date Prepared: 12/03/2007 1351

Analysis Batch: 720-29171

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
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		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	115	83 - 127
1,2-Dichloroethane-d4 (Surr)	103	86 - 129
Toluene-d8 (Surr)	107	82 - 126

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@35')

Lab Sample ID: 720-11961-1
Client Matrix: Water

Date Sampled: 11/28/2007 1000
Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/30/2007 1817
Date Prepared: 11/30/2007 1817

Analysis Batch: 720-29173

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	97	77 - 121
1,2-Dichloroethane-d4 (Surr)	101	73 - 130

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@70')

Lab Sample ID: 720-11961-2 Date Sampled: 11/28/2007 1340
Client Matrix: Water Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29171 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: c:\saturnws\data\200712\12
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/03/2007 1605 Final Weight/Volume: 40 mL
Date Prepared: 12/03/2007 1605

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	2.7		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	1.2		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@70')

Lab Sample ID: 720-11961-2 Date Sampled: 11/28/2007 1340
Client Matrix: Water Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29171 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: c:\saturnws\data\200712\12
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/03/2007 1605 Final Weight/Volume: 40 mL
Date Prepared: 12/03/2007 1605

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
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	2.3		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	1.0		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	111	83 - 127
1,2-Dichloroethane-d4 (Surr)	106	86 - 129
Toluene-d8 (Surr)	103	82 - 126

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@70')

Lab Sample ID: 720-11961-2
Client Matrix: Water

Date Sampled: 11/28/2007 1340
Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 11/30/2007 1840
Date Prepared: 11/30/2007 1840

Analysis Batch: 720-29173

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12	98		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	99	77 - 121
1,2-Dichloroethane-d4 (Surr)	101	73 - 130

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: **DB-1 (GW@95')**

Lab Sample ID: 720-11961-3 Date Sampled: 11/28/2007 1520
Client Matrix: Water Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29171 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: c:\saturnws\data\200712\12
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 12/03/2007 1638 Final Weight/Volume: 40 mL
Date Prepared: 12/03/2007 1638

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@95')

Lab Sample ID: 720-11961-3
Client Matrix: Water

Date Sampled: 11/28/2007 1520
Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/03/2007 1638
Date Prepared: 12/03/2007 1638

Analysis Batch: 720-29171

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
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		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	111	83 - 127
1,2-Dichloroethane-d4 (Surr)	106	86 - 129
Toluene-d8 (Surr)	101	82 - 126

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@95')

Lab Sample ID: 720-11961-3
Client Matrix: Water

Date Sampled: 11/28/2007 1520
Date Received: 11/28/2007 1810

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/01/2007 0338
Date Prepared: 12/01/2007 0338

Analysis Batch: 720-29163

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200711\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	%Rec	Acceptance Limits
Toluene-d8 (Surr)	91	77 - 121
1,2-Dichloroethane-d4 (Surr)	93	73 - 130

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@35')

Lab Sample ID: 720-11961-1
Client Matrix: Water

Date Sampled: 11/28/2007 1000
Date Received: 11/28/2007 1810

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 12/07/2007 1038
Date Prepared: 12/06/2007 1438

Analysis Batch: 720-29381
Prep Batch: 720-29325

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	66	50 - 130

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@70')

Lab Sample ID: 720-11961-2
Client Matrix: Water

Date Sampled: 11/28/2007 1340
Date Received: 11/28/2007 1810

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 12/07/2007 1105
Date Prepared: 12/06/2007 1438

Analysis Batch: 720-29381
Prep Batch: 720-29325

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	190		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	67	50 - 130

Client: Engeo, Inc. Job Number: 720-11961-1

Client Sample ID: DB-1 (GW@95')

Lab Sample ID: 720-11961-3
Client Matrix: Water

Date Sampled: 11/28/2007 1520
Date Received: 11/28/2007 1810

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3510C SGC
Dilution: 1.0
Date Analyzed: 12/07/2007 1131
Date Prepared: 12/06/2007 1438

Analysis Batch: 720-29381
Prep Batch: 720-29325

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	60	50 - 130

DATA REPORTING QUALIFIERS

Client: Engeo, Inc. Job Number: 720-11961-1

Lab Section	Qualifier	Description
GC/MS VOA		
	X	Surrogate exceeds the control limits

Client: Engeo, Inc. Job Number: 720-11961-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-29163					
LCS 720-29163/15	Lab Control Spike	T	Water	8260B	
LCSD 720-29163/14	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-29163/9	Method Blank	T	Water	8260B	
720-11961-3	DB-1 (GW@95')	T	Water	8260B	
720-11962-B-8 MS	Matrix Spike	T	Water	8260B	
720-11962-B-8 MSD	Matrix Spike Duplicate	T	Water	8260B	
Analysis Batch:720-29171					
LCS 720-29171/2	Lab Control Spike	T	Water	8260B	
LCSD 720-29171/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-29171/3	Method Blank	T	Water	8260B	
720-11935-C-7 MS	Matrix Spike	T	Water	8260B	
720-11935-D-7 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-11961-1	DB-1 (GW@35')	T	Water	8260B	
720-11961-2	DB-1 (GW@70')	T	Water	8260B	
720-11961-3	DB-1 (GW@95')	T	Water	8260B	
Analysis Batch:720-29173					
LCS 720-29173/3	Lab Control Spike	T	Water	8260B	
MB 720-29173/4	Method Blank	T	Water	8260B	
720-11931-A-1 MS	Matrix Spike	T	Water	8260B	
720-11931-A-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-11961-1	DB-1 (GW@35')	T	Water	8260B	
720-11961-2	DB-1 (GW@70')	T	Water	8260B	

Report Basis
T = Total

Client: Engeo, Inc. Job Number: 720-11961-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-29325					
LCS 720-29325/2-A	Lab Control Spike	A	Water	3510C SGC	
LCSD 720-29325/3-A	Lab Control Spike Duplicate	A	Water	3510C SGC	
MB 720-29325/1-A	Method Blank	A	Water	3510C SGC	
720-11961-1	DB-1 (GW@35')	A	Water	3510C SGC	
720-11961-2	DB-1 (GW@70')	A	Water	3510C SGC	
720-11961-3	DB-1 (GW@95')	A	Water	3510C SGC	
720-12002-E-2-B MS	Matrix Spike	A	Water	3510C SGC	
720-12002-E-2-C MSD	Matrix Spike Duplicate	A	Water	3510C SGC	
Analysis Batch:720-29381					
LCS 720-29325/2-A	Lab Control Spike	A	Water	8015B	720-29325
LCSD 720-29325/3-A	Lab Control Spike Duplicate	A	Water	8015B	720-29325
MB 720-29325/1-A	Method Blank	A	Water	8015B	720-29325
720-11961-1	DB-1 (GW@35')	A	Water	8015B	720-29325
720-11961-2	DB-1 (GW@70')	A	Water	8015B	720-29325
720-11961-3	DB-1 (GW@95')	A	Water	8015B	720-29325
Analysis Batch:720-29382					
720-12002-E-2-B MS	Matrix Spike	A	Water	8015B	720-29325
720-12002-E-2-C MSD	Matrix Spike Duplicate	A	Water	8015B	720-29325

Report Basis
A = Silica Gel Cleanup

Client: Engeo, Inc. Job Number: 720-11961-1

Method Blank - Batch: 720-29163

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29163/9
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/30/2007 2141
Date Prepared: 11/30/2007 2141

Analysis Batch: 720-29163
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200711\11
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	97	77 - 121
1,2-Dichloroethane-d4 (Surr)	90	73 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29163

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29163/15
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/30/2007 2131
Date Prepared: 11/30/2007 2131

Analysis Batch: 720-29163
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200711\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-29163/14
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/30/2007 2155
Date Prepared: 11/30/2007 2155

Analysis Batch: 720-29163
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200711\113
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	90	97	69 - 129	8	20		
Toluene	95	100	70 - 130	5	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	96	99	77 - 121
1,2-Dichloroethane-d4 (Surr)	90	88	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29163

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-11962-B-8 MS	Analysis Batch: 720-29163	Instrument ID: Varian 3900E
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\varianws\data\200711\
Dilution:	5.0		Initial Weight/Volume: 10 mL
Date Analyzed:	12/01/2007 0329		Final Weight/Volume: 10 mL
Date Prepared:	12/01/2007 0329		

MSD Lab Sample ID:	720-11962-B-8 MSD	Analysis Batch: 720-29163	Instrument ID: Varian 3900E
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\varianws\data\200711\11
Dilution:	5.0		Initial Weight/Volume: 10 mL
Date Analyzed:	12/01/2007 0352		Final Weight/Volume: 10 mL
Date Prepared:	12/01/2007 0352		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	83	91	69 - 129	9	20		
Toluene	91	93	70 - 130	2	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
Toluene-d8 (Surr)	92	90	77 - 121
1,2-Dichloroethane-d4 (Surr)	80	83	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Method Blank - Batch: 720-29171

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29171/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2007 1104
Date Prepared: 12/03/2007 1104

Analysis Batch: 720-29171
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Method Blank - Batch: 720-29171

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29171/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2007 1104
Date Prepared: 12/03/2007 1104

Analysis Batch: 720-29171
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
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		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	107	83 - 127
1,2-Dichloroethane-d4 (Surr)	99	86 - 129
Toluene-d8 (Surr)	101	82 - 126

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29171

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29171/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2007 0958
Date Prepared: 12/03/2007 0958

Analysis Batch: 720-29171
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\1
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-29171/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/03/2007 1031
Date Prepared: 12/03/2007 1031

Analysis Batch: 720-29171
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	85	82	69 - 129	4	20		
Chlorobenzene	99	96	61 - 121	3	20		
1,1-Dichloroethene	87	90	65 - 125	3	20		
Toluene	90	87	70 - 130	4	20		
Trichloroethene	85	81	74 - 134	5	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	99	103	83 - 127
1,2-Dichloroethane-d4 (Surr)	91	98	86 - 129
Toluene-d8 (Surr)	92	96	82 - 126

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29171

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-11935-C-7 MS	Analysis Batch: 720-29171	Instrument ID: Varian 3900G
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200712\
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/03/2007 1425		Final Weight/Volume: 40 mL
Date Prepared:	12/03/2007 1425		

MSD Lab Sample ID:	720-11935-D-7 MSD	Analysis Batch: 720-29171	Instrument ID: Varian 3900G
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200712\12
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/03/2007 1458		Final Weight/Volume: 40 mL
Date Prepared:	12/03/2007 1458		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	92	91	69 - 129	2	20		
Chlorobenzene	110	110	61 - 121	0	20		
1,1-Dichloroethene	97	97	65 - 125	0	20		
Toluene	99	97	70 - 130	2	20		
Trichloroethene	100	92	74 - 134	9	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	109	103	83 - 127
1,2-Dichloroethane-d4 (Surr)	104	105	86 - 129
Toluene-d8 (Surr)	107	103	82 - 126

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Method Blank - Batch: 720-29173

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29173/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/30/2007 1100
Date Prepared: 11/30/2007 1100

Analysis Batch: 720-29173
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.50
Toluene	ND		0.50
Gasoline Range Organics (GRO)-C5-C12	ND		50

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	98	77 - 121
1,2-Dichloroethane-d4 (Surr)	94	73 - 130

Lab Control Spike - Batch: 720-29173

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-29173/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 11/30/2007 0937
Date Prepared: 11/30/2007 0937

Analysis Batch: 720-29173
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200711\1
Initial Weight/Volume: 10 mL
Final Weight/Volume: 10 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.40	5.19	96	69 - 129	
Toluene	40.3	38.7	96	70 - 130	

Surrogate	% Rec	Acceptance Limits
Toluene-d8 (Surr)	99	77 - 121
1,2-Dichloroethane-d4 (Surr)	109	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29173

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-11931-A-1 MS	Analysis Batch: 720-29173	Instrument ID: Varian 3900A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200711\
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	11/30/2007 1242		Final Weight/Volume: 10 mL
Date Prepared:	11/30/2007 1242		

MSD Lab Sample ID:	720-11931-A-1 MSD	Analysis Batch: 720-29173	Instrument ID: Varian 3900A
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200711\1
Dilution:	1.0		Initial Weight/Volume: 10 mL
Date Analyzed:	11/30/2007 1305		Final Weight/Volume: 10 mL
Date Prepared:	11/30/2007 1305		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	94	95	69 - 129	1	20		
Toluene	102	101	70 - 130	0	20		

Surrogate	MS % Rec	MSD % Rec		Acceptance Limits
Toluene-d8 (Surr)	100	102		77 - 121
1,2-Dichloroethane-d4 (Surr)	100	59	X	73 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Method Blank - Batch: 720-29325

Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup

Lab Sample ID: MB 720-29325/1-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/07/2007 1012
Date Prepared: 12/06/2007 1438

Analysis Batch: 720-29381
Prep Batch: 720-29325
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		50
Motor Oil Range Organics [C24-C36]	ND		500

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	72	50 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29325

Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup

LCS Lab Sample ID: LCS 720-29325/2-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/07/2007 0920
Date Prepared: 12/06/2007 1438

Analysis Batch: 720-29381
Prep Batch: 720-29325
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-29325/3-A
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/07/2007 0946
Date Prepared: 12/06/2007 1438

Analysis Batch: 720-29381
Prep Batch: 720-29325
Units: ug/L

Instrument ID: Varian DRO4
Lab File ID: N/A
Initial Weight/Volume: 250 mL
Final Weight/Volume: 1 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	58	62	50 - 130	7	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	71	73	50 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-11961-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29325

Method: 8015B
Preparation: 3510C SGC
Silica Gel Cleanup

MS Lab Sample ID:	720-12002-E-2-B MS	Analysis Batch: 720-29382	Instrument ID: HP DRO5
Client Matrix:	Water	Prep Batch: 720-29325	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 250 mL
Date Analyzed:	12/07/2007 1208		Final Weight/Volume: 1 mL
Date Prepared:	12/06/2007 1438		Injection Volume:
			Column ID: PRIMARY
MSD Lab Sample ID:	720-12002-E-2-C MSD	Analysis Batch: 720-29382	Instrument ID: HP DRO5
Client Matrix:	Water	Prep Batch: 720-29325	Lab File ID: N/A
Dilution:	1.0		Initial Weight/Volume: 250 mL
Date Analyzed:	12/07/2007 1235		Final Weight/Volume: 1 mL
Date Prepared:	12/06/2007 1438		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diesel Range Organics [C10-C28]	56	64	50 - 130	12	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
p-Terphenyl	66	70	50 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: Engeo, Inc.

Job Number: 720-11961-1

Login Number: 11961
List Source: TestAmerica San Francisco
Creator: Lewis, Trenton L
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	False	See Narrative
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-12284-1

Job Description: Rickenbacker

For:
Engeo, Inc.
580 N Wilma Avenue
Suite A
Ripon, CA 95366-9502

Attention: Mr. Richard Gandolfo

Designee for
Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
01/04/2008

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Job Narrative
720-J12284-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
Method(s) 8260B: The matrix spike duplicate (MS/MSD) recoveries for batch 30082 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

Method(s) 8260B: Surrogate and internal standand recoveries for the following sample was outside control limits: B-8-2.5 (720-12227-1). Evidence of matrix interference is present; confirmed by MS and MSD.

Method(s) 8260B: The matrix spike and matrix spike duplicate (MS/MSD) recoveries for batch 29888 were outside control limits. The associated laboratory control standard and laboratory control standard duplicate (LCS/LCSD) met acceptance criteria.

No other analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: The continuing calibration verification (CCV) for PTP recovered above the upper control limit. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Engeo, Inc. Job Number: 720-12284-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12284-1	**MWB1 @ 5-1/2'**				
Tetrachloroethene		81	4.7	ug/Kg	8260B
720-12284-2	**MWB1 @ 10-1/2'**				
Tetrachloroethene		68	4.9	ug/Kg	8260B

METHOD SUMMARY

Client: Engeo, Inc. Job Number: 720-12284-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge and Trap for Solids	TAL SF		SW846 5030B
Purge and Trap for Solids	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Engeo, Inc. Job Number: 720-12284-1

Method	Analyst	Analyst ID
SW846 8260B	Ali, Badri	BA
SW846 8260B	Le, Lien	LL
SW846 8015B	Hayashi, Derek	DH

SAMPLE SUMMARY

Client: Engeo, Inc. Job Number: 720-12284-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12284-1	MWB1 @ 5-1/2'	Solid	12/18/2007 0900	12/18/2007 1532
720-12284-2	MWB1 @ 10-1/2'	Solid	12/18/2007 0910	12/18/2007 1532
720-12284-3	MWB2 @ 25-1/2'	Solid	12/18/2007 1330	12/18/2007 1532

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB1 @ 5-1/2'

Lab Sample ID: 720-12284-1 Date Sampled: 12/18/2007 0900
Client Matrix: Solid Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29888 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29834 Lab File ID: 121907012.D
Dilution: 1.0 Initial Weight/Volume: 5.27 g
Date Analyzed: 12/19/2007 1541 Final Weight/Volume: 10 mL
Date Prepared: 12/19/2007 1200

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.7
Acetone		ND		47
Benzene		ND		4.7
Dichlorobromomethane		ND		4.7
Bromobenzene		ND		4.7
Chlorobromomethane		ND		19
Bromoform		ND		4.7
Bromomethane		ND		9.5
2-Butanone (MEK)		ND		47
n-Butylbenzene		ND		4.7
sec-Butylbenzene		ND		4.7
tert-Butylbenzene		ND		4.7
Carbon disulfide		ND		4.7
Carbon tetrachloride		ND		4.7
Chlorobenzene		ND		4.7
Chloroethane		ND		9.5
Chloroform		ND		4.7
Chloromethane		ND		9.5
2-Chlorotoluene		ND		4.7
4-Chlorotoluene		ND		4.7
Chlorodibromomethane		ND		4.7
1,2-Dichlorobenzene		ND		4.7
1,3-Dichlorobenzene		ND		4.7
1,4-Dichlorobenzene		ND		4.7
1,3-Dichloropropane		ND		4.7
1,1-Dichloropropene		ND		4.7
1,2-Dibromo-3-Chloropropane		ND		47
Ethylene Dibromide		ND		4.7
Dibromomethane		ND		9.5
Dichlorodifluoromethane		ND		9.5
1,1-Dichloroethane		ND		4.7
1,2-Dichloroethane		ND		4.7
1,1-Dichloroethene		ND		4.7
cis-1,2-Dichloroethene		ND		4.7
trans-1,2-Dichloroethene		ND		4.7
1,2-Dichloropropane		ND		4.7
cis-1,3-Dichloropropene		ND		4.7
trans-1,3-Dichloropropene		ND		4.7
Ethylbenzene		ND		4.7
Hexachlorobutadiene		ND		4.7
2-Hexanone		ND		47
Isopropylbenzene		ND		4.7
4-Isopropyltoluene		ND		4.7
Methylene Chloride		ND		9.5

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB1 @ 5-1/2'

Lab Sample ID: 720-12284-1 Date Sampled: 12/18/2007 0900
Client Matrix: Solid Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29888 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29834 Lab File ID: 121907012.D
Dilution: 1.0 Initial Weight/Volume: 5.27 g
Date Analyzed: 12/19/2007 1541 Final Weight/Volume: 10 mL
Date Prepared: 12/19/2007 1200

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		47
Naphthalene		ND		9.5
N-Propylbenzene		ND		4.7
Styrene		ND		4.7
1,1,1,2-Tetrachloroethane		ND		4.7
1,1,2,2-Tetrachloroethane		ND		4.7
Tetrachloroethene		81		4.7
Toluene		ND		4.7
1,2,3-Trichlorobenzene		ND		4.7
1,2,4-Trichlorobenzene		ND		4.7
1,1,1-Trichloroethane		ND		4.7
1,1,2-Trichloroethane		ND		4.7
Trichloroethene		ND		4.7
Trichlorofluoromethane		ND		4.7
1,2,3-Trichloropropane		ND		4.7
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.7
1,2,4-Trimethylbenzene		ND		4.7
1,3,5-Trimethylbenzene		ND		4.7
Vinyl acetate		ND		47
Vinyl chloride		ND		4.7
Xylenes, Total		ND		9.5
2,2-Dichloropropane		ND		4.7

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	85	50 - 138
1,2-Dichloroethane-d4 (Surr)	94	66 - 127
Toluene-d8 (Surr)	89	51 - 129

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB1 @ 5-1/2'

Lab Sample ID: 720-12284-1
Client Matrix: Solid

Date Sampled: 12/18/2007 0900
Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/26/2007 1306
Date Prepared: 12/26/2007 0835

Analysis Batch: 720-30082
Prep Batch: 720-30083

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\12
Initial Weight/Volume: 5.50 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.23

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	106	60 - 140
Toluene-d8 (Surr)	97	70 - 130

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB1 @ 10-1/2'

Lab Sample ID: 720-12284-2 Date Sampled: 12/18/2007 0910
Client Matrix: Solid Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29888 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29834 Lab File ID: 121907013.D
Dilution: 1.0 Initial Weight/Volume: 5.13 g
Date Analyzed: 12/19/2007 1606 Final Weight/Volume: 10 mL
Date Prepared: 12/19/2007 1200

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.9
Acetone		ND		49
Benzene		ND		4.9
Dichlorobromomethane		ND		4.9
Bromobenzene		ND		4.9
Chlorobromomethane		ND		19
Bromoform		ND		4.9
Bromomethane		ND		9.7
2-Butanone (MEK)		ND		49
n-Butylbenzene		ND		4.9
sec-Butylbenzene		ND		4.9
tert-Butylbenzene		ND		4.9
Carbon disulfide		ND		4.9
Carbon tetrachloride		ND		4.9
Chlorobenzene		ND		4.9
Chloroethane		ND		9.7
Chloroform		ND		4.9
Chloromethane		ND		9.7
2-Chlorotoluene		ND		4.9
4-Chlorotoluene		ND		4.9
Chlorodibromomethane		ND		4.9
1,2-Dichlorobenzene		ND		4.9
1,3-Dichlorobenzene		ND		4.9
1,4-Dichlorobenzene		ND		4.9
1,3-Dichloropropane		ND		4.9
1,1-Dichloropropene		ND		4.9
1,2-Dibromo-3-Chloropropane		ND		49
Ethylene Dibromide		ND		4.9
Dibromomethane		ND		9.7
Dichlorodifluoromethane		ND		9.7
1,1-Dichloroethane		ND		4.9
1,2-Dichloroethane		ND		4.9
1,1-Dichloroethene		ND		4.9
cis-1,2-Dichloroethene		ND		4.9
trans-1,2-Dichloroethene		ND		4.9
1,2-Dichloropropane		ND		4.9
cis-1,3-Dichloropropene		ND		4.9
trans-1,3-Dichloropropene		ND		4.9
Ethylbenzene		ND		4.9
Hexachlorobutadiene		ND		4.9
2-Hexanone		ND		49
Isopropylbenzene		ND		4.9
4-Isopropyltoluene		ND		4.9
Methylene Chloride		ND		9.7

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB1 @ 10-1/2'

Lab Sample ID: 720-12284-2 Date Sampled: 12/18/2007 0910
Client Matrix: Solid Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29888 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29834 Lab File ID: 121907013.D
Dilution: 1.0 Initial Weight/Volume: 5.13 g
Date Analyzed: 12/19/2007 1606 Final Weight/Volume: 10 mL
Date Prepared: 12/19/2007 1200

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		49
Naphthalene		ND		9.7
N-Propylbenzene		ND		4.9
Styrene		ND		4.9
1,1,1,2-Tetrachloroethane		ND		4.9
1,1,2,2-Tetrachloroethane		ND		4.9
Tetrachloroethene		68		4.9
Toluene		ND		4.9
1,2,3-Trichlorobenzene		ND		4.9
1,2,4-Trichlorobenzene		ND		4.9
1,1,1-Trichloroethane		ND		4.9
1,1,2-Trichloroethane		ND		4.9
Trichloroethene		ND		4.9
Trichlorofluoromethane		ND		4.9
1,2,3-Trichloropropane		ND		4.9
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.9
1,2,4-Trimethylbenzene		ND		4.9
1,3,5-Trimethylbenzene		ND		4.9
Vinyl acetate		ND		49
Vinyl chloride		ND		4.9
Xylenes, Total		ND		9.7
2,2-Dichloropropane		ND		4.9

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	85	50 - 138
1,2-Dichloroethane-d4 (Surr)	95	66 - 127
Toluene-d8 (Surr)	88	51 - 129

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: **MWB1 @ 10-1/2'**

Lab Sample ID: 720-12284-2
Client Matrix: Solid

Date Sampled: 12/18/2007 0910
Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/26/2007 1330
Date Prepared: 12/26/2007 0835

Analysis Batch: 720-30082
Prep Batch: 720-30083

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\12
Initial Weight/Volume: 5.34 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.23

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	101	60 - 140
Toluene-d8 (Surr)	94	70 - 130

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB2 @ 25-1/2'

Lab Sample ID: 720-12284-3 Date Sampled: 12/18/2007 1330
Client Matrix: Solid Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29888 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29834 Lab File ID: 121907014.D
Dilution: 1.0 Initial Weight/Volume: 5.00 g
Date Analyzed: 12/19/2007 1631 Final Weight/Volume: 10 mL
Date Prepared: 12/19/2007 1200

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		5.0
Acetone		ND		50
Benzene		ND		5.0
Dichlorobromomethane		ND		5.0
Bromobenzene		ND		5.0
Chlorobromomethane		ND		20
Bromoform		ND		5.0
Bromomethane		ND		10
2-Butanone (MEK)		ND		50
n-Butylbenzene		ND		5.0
sec-Butylbenzene		ND		5.0
tert-Butylbenzene		ND		5.0
Carbon disulfide		ND		5.0
Carbon tetrachloride		ND		5.0
Chlorobenzene		ND		5.0
Chloroethane		ND		10
Chloroform		ND		5.0
Chloromethane		ND		10
2-Chlorotoluene		ND		5.0
4-Chlorotoluene		ND		5.0
Chlorodibromomethane		ND		5.0
1,2-Dichlorobenzene		ND		5.0
1,3-Dichlorobenzene		ND		5.0
1,4-Dichlorobenzene		ND		5.0
1,3-Dichloropropane		ND		5.0
1,1-Dichloropropene		ND		5.0
1,2-Dibromo-3-Chloropropane		ND		50
Ethylene Dibromide		ND		5.0
Dibromomethane		ND		10
Dichlorodifluoromethane		ND		10
1,1-Dichloroethane		ND		5.0
1,2-Dichloroethane		ND		5.0
1,1-Dichloroethene		ND		5.0
cis-1,2-Dichloroethene		ND		5.0
trans-1,2-Dichloroethene		ND		5.0
1,2-Dichloropropane		ND		5.0
cis-1,3-Dichloropropene		ND		5.0
trans-1,3-Dichloropropene		ND		5.0
Ethylbenzene		ND		5.0
Hexachlorobutadiene		ND		5.0
2-Hexanone		ND		50
Isopropylbenzene		ND		5.0
4-Isopropyltoluene		ND		5.0
Methylene Chloride		ND		10

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB2 @ 25-1/2'

Lab Sample ID: 720-12284-3 Date Sampled: 12/18/2007 1330
Client Matrix: Solid Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29888 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29834 Lab File ID: 121907014.D
Dilution: 1.0 Initial Weight/Volume: 5.00 g
Date Analyzed: 12/19/2007 1631 Final Weight/Volume: 10 mL
Date Prepared: 12/19/2007 1200

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		50
Naphthalene		ND		10
N-Propylbenzene		ND		5.0
Styrene		ND		5.0
1,1,1,2-Tetrachloroethane		ND		5.0
1,1,2,2-Tetrachloroethane		ND		5.0
Tetrachloroethene		ND		5.0
Toluene		ND		5.0
1,2,3-Trichlorobenzene		ND		5.0
1,2,4-Trichlorobenzene		ND		5.0
1,1,1-Trichloroethane		ND		5.0
1,1,2-Trichloroethane		ND		5.0
Trichloroethene		ND		5.0
Trichlorofluoromethane		ND		5.0
1,2,3-Trichloropropane		ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		5.0
1,2,4-Trimethylbenzene		ND		5.0
1,3,5-Trimethylbenzene		ND		5.0
Vinyl acetate		ND		50
Vinyl chloride		ND		5.0
Xylenes, Total		ND		10
2,2-Dichloropropane		ND		5.0

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	101	50 - 138
1,2-Dichloroethane-d4 (Surr)	97	66 - 127
Toluene-d8 (Surr)	101	51 - 129

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB2 @ 25-1/2'

Lab Sample ID: 720-12284-3
Client Matrix: Solid

Date Sampled: 12/18/2007 1330
Date Received: 12/18/2007 1532

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/26/2007 1353
Date Prepared: 12/26/2007 0835

Analysis Batch: 720-30082
Prep Batch: 720-30083

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\12
Initial Weight/Volume: 5.21 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.24

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	60 - 140
Toluene-d8 (Surr)	95	70 - 130

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB1 @ 5-1/2'

Lab Sample ID: 720-12284-1
Client Matrix: Solid

Date Sampled: 12/18/2007 0900
Date Received: 12/18/2007 1532

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/02/2008 1256
Date Prepared: 12/28/2007 1556

Analysis Batch: 720-30339
Prep Batch: 720-30218

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.15 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	5	0 - 5
p-Terphenyl	72	41 - 105

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB1 @ 10-1/2'

Lab Sample ID: 720-12284-2 Date Sampled: 12/18/2007 0910
Client Matrix: Solid Date Received: 12/18/2007 1532

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/02/2008 1323
Date Prepared: 12/28/2007 1556

Analysis Batch: 720-30339
Prep Batch: 720-30218

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	3	0 - 5
p-Terphenyl	71	41 - 105

Client: Engeo, Inc. Job Number: 720-12284-1

Client Sample ID: MWB2 @ 25-1/2'

Lab Sample ID: 720-12284-3
Client Matrix: Solid

Date Sampled: 12/18/2007 1330
Date Received: 12/18/2007 1532

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 01/02/2008 2034
Date Prepared: 12/28/2007 1556

Analysis Batch: 720-30339
Prep Batch: 720-30218

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.03 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		ND		1.0
Motor Oil Range Organics [C24-C36]		ND		50

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	0	0 - 5
p-Terphenyl	87	41 - 105

DATA REPORTING QUALIFIERS

Client: Engeo, Inc. Job Number: 720-12284-1

Lab Section	Qualifier	Description
GC/MS VOA		
	F	MS or MSD exceeds the control limits
	X	Surrogate exceeds the control limits

Client: Engeo, Inc. Job Number: 720-12284-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-29834					
LCS 720-29834/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-29834/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-29834/3-A	Method Blank	T	Solid	5030B	
720-12227-A-1-F MS	Matrix Spike	T	Solid	5030B	
720-12227-A-1-G MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-12284-1	MWB1 @ 5-1/2'	T	Solid	5030B	
720-12284-2	MWB1 @ 10-1/2'	T	Solid	5030B	
720-12284-3	MWB2 @ 25-1/2'	T	Solid	5030B	
Analysis Batch:720-29888					
LCS 720-29834/1-A	Lab Control Spike	T	Solid	8260B	720-29834
LCSD 720-29834/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-29834
MB 720-29834/3-A	Method Blank	T	Solid	8260B	720-29834
720-12227-A-1-F MS	Matrix Spike	T	Solid	8260B	720-29834
720-12227-A-1-G MSD	Matrix Spike Duplicate	T	Solid	8260B	720-29834
720-12284-1	MWB1 @ 5-1/2'	T	Solid	8260B	720-29834
720-12284-2	MWB1 @ 10-1/2'	T	Solid	8260B	720-29834
720-12284-3	MWB2 @ 25-1/2'	T	Solid	8260B	720-29834
Analysis Batch:720-30082					
LCS 720-30083/1-A	Lab Control Spike	T	Solid	8260B	720-30083
LCSD 720-30083/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-30083
MB 720-30083/3-A	Method Blank	T	Solid	8260B	720-30083
720-12284-1	MWB1 @ 5-1/2'	T	Solid	8260B	720-30083
720-12284-1MS	Matrix Spike	T	Solid	8260B	720-30083
720-12284-1MSD	Matrix Spike Duplicate	T	Solid	8260B	720-30083
720-12284-2	MWB1 @ 10-1/2'	T	Solid	8260B	720-30083
720-12284-3	MWB2 @ 25-1/2'	T	Solid	8260B	720-30083
Prep Batch: 720-30083					
LCS 720-30083/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-30083/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-30083/3-A	Method Blank	T	Solid	5030B	
720-12284-1	MWB1 @ 5-1/2'	T	Solid	5030B	
720-12284-1MS	Matrix Spike	T	Solid	5030B	
720-12284-1MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-12284-2	MWB1 @ 10-1/2'	T	Solid	5030B	
720-12284-3	MWB2 @ 25-1/2'	T	Solid	5030B	

Report Basis
T = Total

Client: Engeo, Inc. Job Number: 720-12284-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-30218					
LCS 720-30218/2-A	Lab Control Spike	A	Solid	3550B	
LCSD 720-30218/3-A	Lab Control Spike Duplicate	A	Solid	3550B	
MB 720-30218/1-A	Method Blank	A	Solid	3550B	
720-12284-1	MWB1 @ 5-1/2'	A	Solid	3550B	
720-12284-2	MWB1 @ 10-1/2'	A	Solid	3550B	
720-12284-3	MWB2 @ 25-1/2'	A	Solid	3550B	
Analysis Batch:720-30339					
LCS 720-30218/2-A	Lab Control Spike	A	Solid	8015B	720-30218
LCSD 720-30218/3-A	Lab Control Spike Duplicate	A	Solid	8015B	720-30218
MB 720-30218/1-A	Method Blank	A	Solid	8015B	720-30218
720-12284-1	MWB1 @ 5-1/2'	A	Solid	8015B	720-30218
720-12284-2	MWB1 @ 10-1/2'	A	Solid	8015B	720-30218
720-12284-3	MWB2 @ 25-1/2'	A	Solid	8015B	720-30218

Report Basis
A = Silica Gel Cleanup

Client: Engeo, Inc. Job Number: 720-12284-1

Method Blank - Batch: 720-29834

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29834/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/19/2007 1247
Date Prepared: 12/19/2007 1200

Analysis Batch: 720-29888
Prep Batch: 720-29834
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 121907005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		50
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12284-1

Method Blank - Batch: 720-29834

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29834/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/19/2007 1247
Date Prepared: 12/19/2007 1200

Analysis Batch: 720-29888
Prep Batch: 720-29834
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 121907005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	99	50 - 138
1,2-Dichloroethane-d4 (Surr)	97	66 - 127
Toluene-d8 (Surr)	97	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12284-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29834

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29834/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/19/2007 1157
Date Prepared: 12/19/2007 1200

Analysis Batch: 720-29888
Prep Batch: 720-29834
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 121907003.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-29834/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/19/2007 1222
Date Prepared: 12/19/2007 1200

Analysis Batch: 720-29888
Prep Batch: 720-29834
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 121907004.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	97	91	80 - 120	6	20		
Chlorobenzene	99	92	86 - 115	7	20		
1,1-Dichloroethene	108	102	81 - 140	6	20		
Toluene	98	91	81 - 120	8	20		
Trichloroethene	100	93	82 - 118	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	100	102	50 - 138
1,2-Dichloroethane-d4 (Surr)	104	98	66 - 127
Toluene-d8 (Surr)	98	97	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12284-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29834

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12227-A-1-F MS	Analysis Batch: 720-29888	Instrument ID: Agilent 75MSD
Client Matrix:	Solid	Prep Batch: 720-29834	Lab File ID: 121907010.D
Dilution:	1.0		Initial Weight/Volume: 5.26 g
Date Analyzed:	12/19/2007 1451		Final Weight/Volume: 10 mL
Date Prepared:	12/19/2007 1200		

MSD Lab Sample ID:	720-12227-A-1-G MSD	Analysis Batch: 720-29888	Instrument ID: Agilent 75MSD
Client Matrix:	Solid	Prep Batch: 720-29834	Lab File ID: 121907011.D
Dilution:	1.0		Initial Weight/Volume: 5.02 g
Date Analyzed:	12/19/2007 1516		Final Weight/Volume: 10 mL
Date Prepared:	12/19/2007 1200		

	% Rec.					
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	53	56	63 - 126	11	20	F	F
Chlorobenzene	22	25	57 - 124	20	20	F	F
1,1-Dichloroethene	76	80	66 - 149	10	20		
Toluene	35	38	54 - 131	12	20	F	F
Trichloroethene	46	50	53 - 130	14	20	F	F

Surrogate	MS % Rec		MSD % Rec		Acceptance Limits
4-Bromofluorobenzene	16	X	21	X	50 - 138
1,2-Dichloroethane-d4 (Surr)	76		73		66 - 127
Toluene-d8 (Surr)	38	X	37	X	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12284-1

Method Blank - Batch: 720-30083

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30083/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/26/2007 1035
Date Prepared: 12/26/2007 0835

Analysis Batch: 720-30082
Prep Batch: 720-30083
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\12
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Toluene	ND		0.0050
Gasoline Range Organics (GRO)-C5-C12	ND		0.25

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	102	60 - 140
Toluene-d8 (Surr)	99	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30083

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-30083/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/26/2007 1058
Date Prepared: 12/26/2007 0835

Analysis Batch: 720-30082
Prep Batch: 720-30083
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\12
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-30083/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/26/2007 1121
Date Prepared: 12/26/2007 0835

Analysis Batch: 720-30082
Prep Batch: 720-30083
Units: mg/Kg

Instrument ID: Varian 3900E
Lab File ID: c:\varianws\data\200712\122
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	94	91	70 - 123	3	20		
Toluene	101	97	81 - 128	4	20		
Gasoline Range Organics (GRO)-C5-C12	65	66	51 - 97	2	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	99	95	60 - 140
Toluene-d8 (Surr)	99	97	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12284-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-30083

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12284-1	Analysis Batch: 720-30082	Instrument ID: Varian 3900E
Client Matrix:	Solid	Prep Batch: 720-30083	Lab File ID: c:\varianws\data\200712\
Dilution:	1.0		Initial Weight/Volume: 5.06 g
Date Analyzed:	12/26/2007 1416		Final Weight/Volume: 10 mL
Date Prepared:	12/26/2007 0835		

MSD Lab Sample ID:	720-12284-1	Analysis Batch: 720-30082	Instrument ID: Varian 3900E
Client Matrix:	Solid	Prep Batch: 720-30083	Lab File ID: c:\varianws\data\200712\12
Dilution:	1.0		Initial Weight/Volume: 5.49 g
Date Analyzed:	12/26/2007 1442		Final Weight/Volume: 10 mL
Date Prepared:	12/26/2007 0835		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	89	85	70 - 123	12	20		
Toluene	95	90	81 - 128	14	20		
Gasoline Range Organics (GRO)-C5-C12	53	49	51 - 97	15	20		F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	100	107	60 - 140
Toluene-d8 (Surr)	101	97	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12284-1

Method Blank - Batch: 720-30218

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

Lab Sample ID: MB 720-30218/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/02/2008 1350
Date Prepared: 12/28/2007 1556

Analysis Batch: 720-30339
Prep Batch: 720-30218
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.14 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		1.0
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec	Acceptance Limits
Capric Acid (Surr)	1	0 - 5
p-Terphenyl	88	41 - 105

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30218

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

LCS Lab Sample ID: LCS 720-30218/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/02/2008 1256
Date Prepared: 12/28/2007 1556

Analysis Batch: 720-30339
Prep Batch: 720-30218
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.13 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-30218/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 01/02/2008 1323
Date Prepared: 12/28/2007 1556

Analysis Batch: 720-30339
Prep Batch: 720-30218
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.07 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	66	64	50 - 130	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	103	105	41 - 105

Calculations are performed before rounding to avoid round-off errors in calculated results.

STL San Francisco Chain of Custody

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

STL 720-12284

Reference #: 108683

Date 12/18/07 Page 1 of 1

Report To

Attn: ENGEO
Company: RICHARD Gandolfo
Address: 5PO N. Wilma Ave Ripon
Phone: 209 835 0610 Email: rgandolfo@engeo
Bill To:
Sampled By: R. Gandolfo
Attn:
Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preservative	TPH EPA - ☐ 8015/8021 ☒ 8260B ☐ Gas w/ ☒ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☒ Silica Gel ☐ Diesel ☒ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021 by 8260B	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	W.E.T (STLC) ☐ TCLP	Hexavalent Chromium ☐ pH (24h hold time for H_2O)	Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions: ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4	TPH-GAS			Number of Containers
MWB1 @ 5½'	12/18	9:00	S	ice																							1
MWB1 @ 10½		9:10																									1
~~MWB1 @ 25'~~		~~9:30~~																									~~1~~
MWB2 @ 25½		13:30	↓	↓																							1

Project Info.

Project Name: RICKENBACKER
Project#: 7584.1.001.01
PO#:
Credit Card#:

Sample Receipt

of Containers: 4 3
Head Space:
Temp: 5.3°C
Conforms to record:

5 Day (2) 72h 48h 24h Other:

Report: ☐ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID
Special Instructions / Comments:

*TEPH reports 8015M from C_9-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}.

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 15:32	Signature: Time:	Signature: Time:
Printed Name: Rich Gandolfo Date: 12/18/07	Printed Name: Date:	Printed Name: Date:
Company: ENGEO	Company:	Company:
1) Received by:	**2) Received by:**	**3) Received by:**
Signature: [signature] Time: 15:32	Signature: Time:	Signature: Time:
Printed Name: T. Bullock Date: 12/18/07	Printed Name: Date:	Printed Name: Date:
Company: STL SF	Company:	Company:

Rev 05/04

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01/04/2008

Login Sample Receipt Check List

Client: Engeo, Inc.

Job Number: 720-12284-1

Login Number: 12284
List Source: TestAmerica San Francisco
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-12301-1

Job Description: Rickenbacker

For:
Engeo, Inc.
580 N Wilma Avenue
Suite A
Ripon, CA 95366-9502

Attention: Mr. Richard Gandolfo

Designee for
Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
01/04/2008

TestAmerica Laboratories, Inc.
TestAmerica San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel (925) 484-1919 Fax (925) 484-1096 www.testamericainc.com

Job Narrative
720-J12301-1

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

GC VOA
No analytical or quality issues were noted.

GC Semi VOA
Method(s) 8015B: Capric Surrogate recovery for the MB was outside the upper control limit: (MB 720-30239/1-A). This MB did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for batch 30306 were outside control limits. The associated laboratory control standard (LCS) met acceptance criteria.

No other analytical or quality issues were noted.

Organic Prep
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Engeo, Inc. Job Number: 720-12301-1

Lab Sample ID / Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12301-1	**MW3 @ 26'**				
Silica Gel Cleanup					
Diesel Range Organics [C10-C28]		2.2	0.99	mg/Kg	8015B

METHOD SUMMARY

Client: Engeo, Inc. Job Number: 720-12301-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds by GC/MS	TAL SF	SW846 8260B	
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge and Trap for Solids	TAL SF		SW846 5030B
Purge and Trap for Solids	TAL SF		SW846 5030B
Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)	TAL SF	SW846 8015B	
Ultrasonic Extraction	TAL SF		SW846 3550B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

METHOD / ANALYST SUMMARY

Client: Engeo, Inc. Job Number: 720-12301-1

Method	Analyst	Analyst ID
SW846 8260B	Ali, Badri	BA
SW846 8260B	Le, Lien	LL
SW846 8015B	Relja, Marlene	MR

SAMPLE SUMMARY

Client: Engeo, Inc. Job Number: 720-12301-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12301-1	MW3 @ 26'	Solid	12/19/2007 0845	12/19/2007 1134

Client: Engeo, Inc. Job Number: 720-12301-1

Client Sample ID: MW3 @ 26'

Lab Sample ID: 720-12301-1 Date Sampled: 12/19/2007 0845
Client Matrix: Solid Date Received: 12/19/2007 1134

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-29955 Instrument ID: Agilent 75MSD
Preparation: 5030B Prep Batch: 720-29901 Lab File ID: 122007012.D
Dilution: 1.0 Initial Weight/Volume: 5.38 g
Date Analyzed: 12/20/2007 1536 Final Weight/Volume: 10 mL
Date Prepared: 12/20/2007 1100

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
Methyl tert-butyl ether		ND		4.6
Acetone		ND		46
Benzene		ND		4.6
Dichlorobromomethane		ND		4.6
Bromobenzene		ND		4.6
Chlorobromomethane		ND		19
Bromoform		ND		4.6
Bromomethane		ND		9.3
2-Butanone (MEK)		ND		46
n-Butylbenzene		ND		4.6
sec-Butylbenzene		ND		4.6
tert-Butylbenzene		ND		4.6
Carbon disulfide		ND		4.6
Carbon tetrachloride		ND		4.6
Chlorobenzene		ND		4.6
Chloroethane		ND		9.3
Chloroform		ND		4.6
Chloromethane		ND		9.3
2-Chlorotoluene		ND		4.6
4-Chlorotoluene		ND		4.6
Chlorodibromomethane		ND		4.6
1,2-Dichlorobenzene		ND		4.6
1,3-Dichlorobenzene		ND		4.6
1,4-Dichlorobenzene		ND		4.6
1,3-Dichloropropane		ND		4.6
1,1-Dichloropropene		ND		4.6
1,2-Dibromo-3-Chloropropane		ND		46
Ethylene Dibromide		ND		4.6
Dibromomethane		ND		9.3
Dichlorodifluoromethane		ND		9.3
1,1-Dichloroethane		ND		4.6
1,2-Dichloroethane		ND		4.6
1,1-Dichloroethene		ND		4.6
cis-1,2-Dichloroethene		ND		4.6
trans-1,2-Dichloroethene		ND		4.6
1,2-Dichloropropane		ND		4.6
cis-1,3-Dichloropropene		ND		4.6
trans-1,3-Dichloropropene		ND		4.6
Ethylbenzene		ND		4.6
Hexachlorobutadiene		ND		4.6
2-Hexanone		ND		46
Isopropylbenzene		ND		4.6
4-Isopropyltoluene		ND		4.6
Methylene Chloride		ND		9.3

Client: Engeo, Inc. Job Number: 720-12301-1

Client Sample ID: MW3 @ 26'

Lab Sample ID: 720-12301-1
Client Matrix: Solid

Date Sampled: 12/19/2007 0845
Date Received: 12/19/2007 1134

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/20/2007 1536
Date Prepared: 12/20/2007 1100

Analysis Batch: 720-29955
Prep Batch: 720-29901

Instrument ID: Agilent 75MSD
Lab File ID: 122007012.D
Initial Weight/Volume: 5.38 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)		ND		46
Naphthalene		ND		9.3
N-Propylbenzene		ND		4.6
Styrene		ND		4.6
1,1,1,2-Tetrachloroethane		ND		4.6
1,1,2,2-Tetrachloroethane		ND		4.6
Tetrachloroethene		ND		4.6
Toluene		ND		4.6
1,2,3-Trichlorobenzene		ND		4.6
1,2,4-Trichlorobenzene		ND		4.6
1,1,1-Trichloroethane		ND		4.6
1,1,2-Trichloroethane		ND		4.6
Trichloroethene		ND		4.6
Trichlorofluoromethane		ND		4.6
1,2,3-Trichloropropane		ND		4.6
1,1,2-Trichloro-1,2,2-trifluoroethane		ND		4.6
1,2,4-Trimethylbenzene		ND		4.6
1,3,5-Trimethylbenzene		ND		4.6
Vinyl acetate		ND		46
Vinyl chloride		ND		4.6
Xylenes, Total		ND		9.3
2,2-Dichloropropane		ND		4.6

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	99	50 - 138
1,2-Dichloroethane-d4 (Surr)	109	66 - 127
Toluene-d8 (Surr)	107	51 - 129

Client: Engeo, Inc. Job Number: 720-12301-1

Client Sample ID: **MW3 @ 26'**

Lab Sample ID: 720-12301-1
Client Matrix: Solid

Date Sampled: 12/19/2007 0845
Date Received: 12/19/2007 1134

8260B Volatile Organic Compounds by GC/MS

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 12/27/2007 1330
Date Prepared: 12/27/2007 0930

Analysis Batch: 720-30155
Prep Batch: 720-30114

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 5.43 g
Final Weight/Volume: 10 mL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Gasoline Range Organics (GRO)-C5-C12		ND		0.23

Surrogate	%Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	94	60 - 140
Toluene-d8 (Surr)	104	70 - 130

Client: Engeo, Inc. Job Number: 720-12301-1

Client Sample ID: MW3 @ 26'

Lab Sample ID: 720-12301-1
Client Matrix: Solid

Date Sampled: 12/19/2007 0845
Date Received: 12/19/2007 1134

8015B Nonhalogenated Organics using GC/FID -Modified (Diesel Range Organics)-Silica Gel Cleanup

Method: 8015B
Preparation: 3550B
Dilution: 1.0
Date Analyzed: 12/31/2007 1853
Date Prepared: 12/31/2007 0905

Analysis Batch: 720-30306
Prep Batch: 720-30239

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.38 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	RL
Diesel Range Organics [C10-C28]		2.2		0.99
Motor Oil Range Organics [C24-C36]		ND		49

Surrogate	%Rec	Acceptance Limits
Capric Acid (Surr)	1	0 - 5
p-Terphenyl	83	41 - 105

DATA REPORTING QUALIFIERS

Client: Engeo, Inc. Job Number: 720-12301-1

Lab Section	Qualifier	Description
GC Semi VOA		
	4	MS, MSD: The analyte present in the original sample is 4 times greater than the matrix spike concentration; therefore, control limits are not applicable.
	X	Surrogate exceeds the control limits

Client: Engeo, Inc. Job Number: 720-12301-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 720-29901					
LCS 720-29901/1-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-29901/2-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-29901/3-A	Method Blank	T	Solid	5030B	
720-12297-A-1-H MS	Matrix Spike	T	Solid	5030B	
720-12297-A-1-I MSD	Matrix Spike Duplicate	T	Solid	5030B	
720-12301-1	MW3 @ 26'	T	Solid	5030B	
Analysis Batch:720-29955					
LCS 720-29901/1-A	Lab Control Spike	T	Solid	8260B	720-29901
LCSD 720-29901/2-A	Lab Control Spike Duplicate	T	Solid	8260B	720-29901
MB 720-29901/3-A	Method Blank	T	Solid	8260B	720-29901
720-12297-A-1-H MS	Matrix Spike	T	Solid	8260B	720-29901
720-12297-A-1-I MSD	Matrix Spike Duplicate	T	Solid	8260B	720-29901
720-12301-1	MW3 @ 26'	T	Solid	8260B	720-29901
Prep Batch: 720-30114					
LCS 720-30114/2-A	Lab Control Spike	T	Solid	5030B	
LCSD 720-30114/3-A	Lab Control Spike Duplicate	T	Solid	5030B	
MB 720-30114/1-A	Method Blank	T	Solid	5030B	
720-12301-1	MW3 @ 26'	T	Solid	5030B	
720-12380-A-5-D MS	Matrix Spike	T	Solid	5030B	
720-12380-A-5-E MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch:720-30155					
LCS 720-30114/2-A	Lab Control Spike	T	Solid	8260B	720-30114
LCSD 720-30114/3-A	Lab Control Spike Duplicate	T	Solid	8260B	720-30114
MB 720-30114/1-A	Method Blank	T	Solid	8260B	720-30114
720-12301-1	MW3 @ 26'	T	Solid	8260B	720-30114
720-12380-A-5-D MS	Matrix Spike	T	Solid	8260B	720-30114
720-12380-A-5-E MSD	Matrix Spike Duplicate	T	Solid	8260B	720-30114

Report Basis
T = Total

Client: Engeo, Inc. Job Number: 720-12301-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 720-30239					
LCS 720-30239/2-A	Lab Control Spike	A	Solid	3550B	
LCSD 720-30239/3-A	Lab Control Spike Duplicate	A	Solid	3550B	
MB 720-30239/1-A	Method Blank	A	Solid	3550B	
720-12301-1	MW3 @ 26'	A	Solid	3550B	
720-12365-H-1-C MS	Matrix Spike	A	Solid	3550B	
720-12365-H-1-D MSD	Matrix Spike Duplicate	A	Solid	3550B	
Analysis Batch:720-30306					
LCS 720-30239/2-A	Lab Control Spike	A	Solid	8015B	720-30239
LCSD 720-30239/3-A	Lab Control Spike Duplicate	A	Solid	8015B	720-30239
MB 720-30239/1-A	Method Blank	A	Solid	8015B	720-30239
720-12301-1	MW3 @ 26'	A	Solid	8015B	720-30239
720-12365-H-1-C MS	Matrix Spike	A	Solid	8015B	720-30239
720-12365-H-1-D MSD	Matrix Spike Duplicate	A	Solid	8015B	720-30239

Report Basis
A = Silica Gel Cleanup

Client: Engeo, Inc. Job Number: 720-12301-1

Method Blank - Batch: 720-29901

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29901/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/20/2007 1242
Date Prepared: 12/20/2007 1100

Analysis Batch: 720-29955
Prep Batch: 720-29901
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 122007005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		5.0
Dichlorobromomethane	ND		5.0
Bromobenzene	ND		5.0
Chlorobromomethane	ND		20
Bromoform	ND		5.0
Bromomethane	ND		10
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		5.0
sec-Butylbenzene	ND		5.0
tert-Butylbenzene	ND		5.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		5.0
Chlorobenzene	ND		5.0
Chloroethane	ND		10
Chloroform	ND		5.0
Chloromethane	ND		10
2-Chlorotoluene	ND		5.0
4-Chlorotoluene	ND		5.0
Chlorodibromomethane	ND		5.0
1,2-Dichlorobenzene	ND		5.0
1,3-Dichlorobenzene	ND		5.0
1,4-Dichlorobenzene	ND		5.0
1,3-Dichloropropane	ND		5.0
1,1-Dichloropropene	ND		5.0
1,2-Dibromo-3-Chloropropane	ND		50
Ethylene Dibromide	ND		5.0
Dibromomethane	ND		10
Dichlorodifluoromethane	ND		10
1,1-Dichloroethane	ND		5.0
1,2-Dichloroethane	ND		5.0
1,1-Dichloroethene	ND		5.0
cis-1,2-Dichloroethene	ND		5.0
trans-1,2-Dichloroethene	ND		5.0
1,2-Dichloropropane	ND		5.0
cis-1,3-Dichloropropene	ND		5.0
trans-1,3-Dichloropropene	ND		5.0
Ethylbenzene	ND		5.0
Hexachlorobutadiene	ND		5.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12301-1

Method Blank - Batch: 720-29901

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-29901/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/20/2007 1242
Date Prepared: 12/20/2007 1100

Analysis Batch: 720-29955
Prep Batch: 720-29901
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 122007005.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		5.0
4-Isopropyltoluene	ND		5.0
Methylene Chloride	ND		10
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		10
N-Propylbenzene	ND		5.0
Styrene	ND		5.0
1,1,1,2-Tetrachloroethane	ND		5.0
1,1,2,2-Tetrachloroethane	ND		5.0
Tetrachloroethene	ND		5.0
Toluene	ND		5.0
1,2,3-Trichlorobenzene	ND		5.0
1,2,4-Trichlorobenzene	ND		5.0
1,1,1-Trichloroethane	ND		5.0
1,1,2-Trichloroethane	ND		5.0
Trichloroethene	ND		5.0
Trichlorofluoromethane	ND		5.0
1,2,3-Trichloropropane	ND		5.0
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0
1,2,4-Trimethylbenzene	ND		5.0
1,3,5-Trimethylbenzene	ND		5.0
Vinyl acetate	ND		50
Vinyl chloride	ND		5.0
Xylenes, Total	ND		10
2,2-Dichloropropane	ND		5.0

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	98	50 - 138
1,2-Dichloroethane-d4 (Surr)	106	66 - 127
Toluene-d8 (Surr)	101	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12301-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-29901

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-29901/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/20/2007 1152
Date Prepared: 12/20/2007 1100

Analysis Batch: 720-29955
Prep Batch: 720-29901
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 122007003.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-29901/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/20/2007 1217
Date Prepared: 12/20/2007 1100

Analysis Batch: 720-29955
Prep Batch: 720-29901
Units: ug/Kg

Instrument ID: Agilent 75MSD
Lab File ID: 122007004.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	94	96	80 - 120	2	20		
Chlorobenzene	94	94	86 - 115	0	20		
1,1-Dichloroethene	109	110	81 - 140	0	20		
Toluene	95	96	81 - 120	1	20		
Trichloroethene	96	96	82 - 118	0	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	101	95	50 - 138
1,2-Dichloroethane-d4 (Surr)	104	98	66 - 127
Toluene-d8 (Surr)	101	94	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12301-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-29901

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12297-A-1-H MS	Analysis Batch: 720-29955	Instrument ID: Agilent 75MSD
Client Matrix:	Solid	Prep Batch: 720-29901	Lab File ID: 122007013.D
Dilution:	1.0		Initial Weight/Volume: 5.09 g
Date Analyzed:	12/20/2007 1602		Final Weight/Volume: 10 mL
Date Prepared:	12/20/2007 1100		

MSD Lab Sample ID:	720-12297-A-1-I MSD	Analysis Batch: 720-29955	Instrument ID: Agilent 75MSD
Client Matrix:	Solid	Prep Batch: 720-29901	Lab File ID: 122007014.D
Dilution:	1.0		Initial Weight/Volume: 5.21 g
Date Analyzed:	12/20/2007 1627		Final Weight/Volume: 10 mL
Date Prepared:	12/20/2007 1100		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	92	87	63 - 126	8	20		
Chlorobenzene	83	75	57 - 124	12	20		
1,1-Dichloroethene	106	100	66 - 149	7	20		
Toluene	88	81	54 - 131	10	20		
Trichloroethene	86	78	53 - 130	12	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	86	70	50 - 138
1,2-Dichloroethane-d4 (Surr)	93	81	66 - 127
Toluene-d8 (Surr)	91	79	51 - 129

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12301-1

Method Blank - Batch: 720-30114

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-30114/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/27/2007 1151
Date Prepared: 12/27/2007 0930

Analysis Batch: 720-30155
Prep Batch: 720-30114
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 10 mL

Analyte	Result	Qual	RL
Benzene	ND		0.0050
Toluene	ND		0.0050
Gasoline Range Organics (GRO)-C5-C12	ND		0.25

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	92	60 - 140
Toluene-d8 (Surr)	100	70 - 130

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30114

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-30114/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/27/2007 1214
Date Prepared: 12/27/2007 0930

Analysis Batch: 720-30155
Prep Batch: 720-30114
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200712\12
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 10 mL

LCSD Lab Sample ID: LCSD 720-30114/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/27/2007 1236
Date Prepared: 12/27/2007 0930

Analysis Batch: 720-30155
Prep Batch: 720-30114
Units: mg/Kg

Instrument ID: Varian 3900A
Lab File ID: c:\saturnws\data\200712\122
Initial Weight/Volume: 5.00 g
Final Weight/Volume: 10 mL

Analyte	% Rec. LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	77	83	70 - 123	7	20		
Toluene	84	92	81 - 128	9	20		
Gasoline Range Organics (GRO)-C5-C12	58	62	51 - 97	6	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	96	89	60 - 140
Toluene-d8 (Surr)	99	105	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12301-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-30114

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12380-A-5-D MS	Analysis Batch: 720-30155	Instrument ID: Varian 3900A
Client Matrix:	Solid	Prep Batch: 720-30114	Lab File ID: c:\saturnws\data\200712\
Dilution:	1.0		Initial Weight/Volume: 5.52 g
Date Analyzed:	12/27/2007 1521		Final Weight/Volume: 10 mL
Date Prepared:	12/27/2007 0930		

MSD Lab Sample ID:	720-12380-A-5-E MSD	Analysis Batch: 720-30155	Instrument ID: Varian 3900A
Client Matrix:	Solid	Prep Batch: 720-30114	Lab File ID: c:\saturnws\data\200712\12
Dilution:	1.0		Initial Weight/Volume: 5.46 g
Date Analyzed:	12/27/2007 1544		Final Weight/Volume: 10 mL
Date Prepared:	12/27/2007 0930		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	88	85	70 - 123	2	20		
Toluene	94	91	81 - 128	2	20		
Gasoline Range Organics (GRO)-C5-C12	58	56	51 - 97	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	93	91	60 - 140
Toluene-d8 (Surr)	107	99	70 - 130

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12301-1

Method Blank - Batch: 720-30239

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

Lab Sample ID: MB 720-30239/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/31/2007 1826
Date Prepared: 12/31/2007 0905

Analysis Batch: 720-30306
Prep Batch: 720-30239
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.17 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	Result	Qual	RL
Diesel Range Organics [C10-C28]	ND		0.99
Motor Oil Range Organics [C24-C36]	ND		50

Surrogate	% Rec		Acceptance Limits
Capric Acid (Surr)	8	X	0 - 5
p-Terphenyl	96		41 - 105

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-30239

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

LCS Lab Sample ID: LCS 720-30239/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/31/2007 1732
Date Prepared: 12/31/2007 0905

Analysis Batch: 720-30306
Prep Batch: 720-30239
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.20 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 720-30239/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 12/31/2007 1759
Date Prepared: 12/31/2007 0905

Analysis Batch: 720-30306
Prep Batch: 720-30239
Units: mg/Kg

Instrument ID: HP DRO5
Lab File ID: N/A
Initial Weight/Volume: 30.27 g
Final Weight/Volume: 5 mL
Injection Volume:
Column ID: PRIMARY

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Diesel Range Organics [C10-C28]	79	77	50 - 130	3	30		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
p-Terphenyl	86	87	41 - 105

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12301-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-30239

Method: 8015B
Preparation: 3550B
Silica Gel Cleanup

MS Lab Sample ID:	720-12365-H-1-C MS	Analysis Batch: 720-30306	Instrument ID: HP DRO5
Client Matrix:	Solid	Prep Batch: 720-30239	Lab File ID: N/A
Dilution:	2.0		Initial Weight/Volume: 30.00 g
Date Analyzed:	12/31/2007 2106		Final Weight/Volume: 5 mL
Date Prepared:	12/31/2007 0905		Injection Volume:
			Column ID: PRIMARY
MSD Lab Sample ID:	720-12365-H-1-D MSD	Analysis Batch: 720-30306	Instrument ID: HP DRO5
Client Matrix:	Solid	Prep Batch: 720-30239	Lab File ID: N/A
Dilution:	2.0		Initial Weight/Volume: 30.22 g
Date Analyzed:	12/31/2007 2133		Final Weight/Volume: 5 mL
Date Prepared:	12/31/2007 0905		Injection Volume:
			Column ID: PRIMARY

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Diesel Range Organics [C10-C28]	-190	1	50 - 130	46	30	4	4

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
p-Terphenyl	53	59	41 - 105

Calculations are performed before rounding to avoid round-off errors in calculated results.

EVERGREEN TRENT

STL San Francisco Chain of Custody

STL 10-12301

1220 Quarry Lane • Pleasanton CA 94566-4756
Phone: (925) 484-1919 • Fax: (925) 484-1096
Email: sflogin@stl-inc.com

Reference #: 108696

Date 12/19/07 Page 1 of 1

01/04/2008

Report To

Attn: RICHARD GANDOLFO
Company: ENGEO
Address: 580 N. Wilma Ave
Phone: Email:
Bill To:
Sampled By: R. Gandolfo
Attn: Phone:

Analysis Request

Sample ID	Date	Time	Matrix	Preserv.	TPH EPA - ☐ 8015/8021 ☐ 8260B ☒ Gas w/ ☐ BTEX ☐ MTBE	Purgeable Aromatics BTEX EPA - ☐ 8021 ☐ 8260B	TEPH EPA 8015M* ☑ Silica Gel ☒ Diesel ☒ Motor Oil ☐ Other	Fuel Tests EPA 8260B: ☐ Gas ☐ BTEX ☐ Five Oxygenates ☐ DCA, EDB ☐ Ethanol	Purgeable Halocarbons (HVOCs) EPA 6021 by 8260B	Volatile Organics GC/MS (VOCs) ☒ EPA 8260B ☐ 624	Semivolatiles GC/MS ☐ EPA 8270 ☐ 625	Oil and Grease ☐ Petroleum (EPA 1664) ☐ Total	Pesticides ☐ EPA 8081 ☐ 608 PCBs ☐ EPA 8082 ☐ 608	PNAs by ☐ 8270 ☐ 8310	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ RCRA ☐ Other:	Low Level Metals by EPA 200.8/6020 (ICP-MS):	☐ W.E.T (STLC) ☐ TCLP	☐ Hexavalent Chromium ☐ pH (24h hold time for H_2O)	☐ Spec Cond. ☐ Alkalinity ☐ TSS ☐ TDS ☐	Anions : ☐ Cl ☐ SO_4 ☐ NO_3 ☐ F ☐ Br ☐ NO_2 ☐ PO_4				Number of Containers
MW3@26'	12/19	8:45	S	ice	✓		✓			✓																	1

Project Info:

Project Name: Rickenbacker
Project#: 7584.1.001.01
PO#:
Credit Card#:

Sample Receipt

of Containers: 1
Head Space:
Temp: 6
Conforms to record:

5 Day ☐ 72h ☐ 48h ☐ 24h Other:

Report: ☑ Routine ☐ Level 3 ☐ Level 4 ☐ EDD ☐ State Tank Fund EDF ☐ Global ID
Special Instructions / Comments:

STL SF reports 8015M from C_8-C_{24} (industry norm). Default for 8015B is C_{10}-C_{28}.

1) Relinquished by:	2) Relinquished by:	3) Relinquished by:
Signature: [signature] Time: 11:34	Signature: Time:	Signature: Time:
Printed Name: RICH GANDOLFO Date: 12/19/07	Printed Name: Date:	Printed Name: Date:
Company: ENGEO	Company:	Company:

1) Received by:	2) Received by:	3) Received by:
Signature: [signature] Time: 1134	Signature: Time:	Signature: Time:
Printed Name: Joan Mullen Date: 12-19-07	Printed Name: Date:	Printed Name: Date:
Company: TAKE	Company:	Company:

Rev 08/04

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Login Sample Receipt Check List

Client: Engeo, Inc.

Job Number: 720-12301-1

Login Number: 12301
List Source: TestAmerica San Francisco
Creator: Mullen, Joan
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job Number: 720-12803-1

Job Description: Rickenbacker

For:
Engeo, Inc.
580 N Wilma Avenue
Suite A
Ripon, CA 95366-9502

Attention: Mr. Richard Gandolfo

Melissa Brewer
Project Manager I
melissa.brewer@testamericainc.com
01/31/2008

Comments
No additional comments.

Receipt
All samples were received in good condition within temperature requirements.

GC/MS VOA
No analytical or quality issues were noted.

EXECUTIVE SUMMARY - Detections

Client: Engeo, Inc. Job Number: 720-12803-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
720-12803-1	**MW-1**				
Tetrachloroethene		0.80	0.50	ug/L	8260B
720-12803-2	**MW-2**				
Tetrachloroethene		0.95	0.50	ug/L	8260B

METHOD SUMMARY

Client: Engeo, Inc. Job Number: 720-12803-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds by GC/MS (Low Level)	TAL SF	SW846 8260B	
Purge-and-Trap	TAL SF		SW846 5030B

Lab References:

TAL SF = TestAmerica San Francisco

Method References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

SAMPLE SUMMARY

Client: Engeo, Inc. Job Number: 720-12803-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-12803-1	MW-1	Water	01/28/2008 0000	01/28/2008 1214
720-12803-2	MW-2	Water	01/28/2008 0000	01/28/2008 1214
720-12803-3	MW-3	Water	01/28/2008 0000	01/28/2008 1214

Client: Engeo, Inc. Job Number: 720-12803-1

Client Sample ID: MW-1

Lab Sample ID: 720-12803-1 Date Sampled: 01/28/2008 0000
Client Matrix: Water Date Received: 01/28/2008 1214

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-31331 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 01/30/2008 1922 Final Weight/Volume: 40 mL
Date Prepared: 01/30/2008 1922

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Engeo, Inc. Job Number: 720-12803-1

Client Sample ID: MW-1

Lab Sample ID: 720-12803-1
Client Matrix: Water

Date Sampled: 01/28/2008 0000
Date Received: 01/28/2008 1214

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/30/2008 1922
Date Prepared: 01/30/2008 1922

Analysis Batch: 720-31331

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	0.80		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	71 - 139
1,2-Dichloroethane-d4 (Surr)	96	62 - 118
Toluene-d8 (Surr)	101	73 - 117

Client: Engeo, Inc. Job Number: 720-12803-1

Client Sample ID: MW-2

Lab Sample ID: 720-12803-2
Client Matrix: Water

Date Sampled: 01/28/2008 0000
Date Received: 01/28/2008 1214

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/30/2008 1955
Date Prepared: 01/30/2008 1955

Analysis Batch: 720-31331

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Engeo, Inc. Job Number: 720-12803-1

Client Sample ID: MW-2

Lab Sample ID: 720-12803-2
Client Matrix: Water

Date Sampled: 01/28/2008 0000
Date Received: 01/28/2008 1214

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B
Preparation: 5030B
Dilution: 1.0
Date Analyzed: 01/30/2008 1955
Date Prepared: 01/30/2008 1955

Analysis Batch: 720-31331

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	0.95		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	109	71 - 139
1,2-Dichloroethane-d4 (Surr)	94	62 - 118
Toluene-d8 (Surr)	100	73 - 117

Client: Engeo, Inc. Job Number: 720-12803-1

Client Sample ID: MW-3

Lab Sample ID: 720-12803-3 Date Sampled: 01/28/2008 0000
Client Matrix: Water Date Received: 01/28/2008 1214

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-31331 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 01/30/2008 2029 Final Weight/Volume: 40 mL
Date Prepared: 01/30/2008 2029

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0

Client: Engeo, Inc. Job Number: 720-12803-1

Client Sample ID: MW-3

Lab Sample ID: 720-12803-3 Date Sampled: 01/28/2008 0000
Client Matrix: Water Date Received: 01/28/2008 1214

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B Analysis Batch: 720-31331 Instrument ID: Varian 3900G
Preparation: 5030B Lab File ID: c:\saturnws\data\200801\01
Dilution: 1.0 Initial Weight/Volume: 40 mL
Date Analyzed: 01/30/2008 2029 Final Weight/Volume: 40 mL
Date Prepared: 01/30/2008 2029

Analyte	Result (ug/L)	Qualifier	RL
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
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		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	103	71 - 139
1,2-Dichloroethane-d4 (Surr)	91	62 - 118
Toluene-d8 (Surr)	99	73 - 117

DATA REPORTING QUALIFIERS

Lab Section	Qualifier	Description

Client: Engeo, Inc. Job Number: 720-12803-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:720-31331					
LCS 720-31331/2	Lab Control Spike	T	Water	8260B	
LCSD 720-31331/1	Lab Control Spike Duplicate	T	Water	8260B	
MB 720-31331/3	Method Blank	T	Water	8260B	
720-12761-B-1 MS	Matrix Spike	T	Water	8260B	
720-12761-C-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
720-12803-1	MW-1	T	Water	8260B	
720-12803-2	MW-2	T	Water	8260B	
720-12803-3	MW-3	T	Water	8260B	

Report Basis
T = Total

Client: Engeo, Inc. Job Number: 720-12803-1

Method Blank - Batch: 720-31331

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-31331/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/30/2008 1059
Date Prepared: 01/30/2008 1059

Analysis Batch: 720-31331
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
2-Butanone (MEK)	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12803-1

Method Blank - Batch: 720-31331

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-31331/3
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/30/2008 1059
Date Prepared: 01/30/2008 1059

Analysis Batch: 720-31331
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\01
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
4-Methyl-2-pentanone (MIBK)	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
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		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		50
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	105	71 - 139
1,2-Dichloroethane-d4 (Surr)	93	62 - 118
Toluene-d8 (Surr)	100	73 - 117

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12803-1

Lab Control Spike/
Lab Control Spike Duplicate Recovery Report - Batch: 720-31331

Method: 8260B
Preparation: 5030B

LCS Lab Sample ID: LCS 720-31331/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/30/2008 0952
Date Prepared: 01/30/2008 0952

Analysis Batch: 720-31331
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\0
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

LCSD Lab Sample ID: LCSD 720-31331/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 01/30/2008 1026
Date Prepared: 01/30/2008 1026

Analysis Batch: 720-31331
Prep Batch: N/A
Units: ug/L

Instrument ID: Varian 3900G
Lab File ID: c:\saturnws\data\200801\013
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	% Rec. LCS	% Rec. LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Benzene	82	93	69 - 129	12	20		
Chlorobenzene	98	106	61 - 121	8	20		
1,1-Dichloroethene	86	102	65 - 125	18	20		
Toluene	89	100	70 - 130	11	20		
Trichloroethene	84	94	74 - 134	11	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
4-Bromofluorobenzene	96	97	71 - 139
1,2-Dichloroethane-d4 (Surr)	84	87	62 - 118
Toluene-d8 (Surr)	93	94	73 - 117

Calculations are performed before rounding to avoid round-off errors in calculated results.

Client: Engeo, Inc. Job Number: 720-12803-1

Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 720-31331

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	720-12761-B-1 MS	Analysis Batch: 720-31331	Instrument ID: Varian 3900G
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200801\(
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	01/30/2008 1313		Final Weight/Volume: 40 mL
Date Prepared:	01/30/2008 1313		

MSD Lab Sample ID:	720-12761-C-1 MSD	Analysis Batch: 720-31331	Instrument ID: Varian 3900G
Client Matrix:	Water	Prep Batch: N/A	Lab File ID: c:\saturnws\data\200801\01
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	01/30/2008 1347		Final Weight/Volume: 40 mL
Date Prepared:	01/30/2008 1347		

	% Rec.						
Analyte	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	91	89	69 - 129	2	20		
Chlorobenzene	104	106	61 - 121	2	20		
1,1-Dichloroethene	91	89	65 - 125	1	20		
Toluene	101	99	70 - 130	2	20		
Trichloroethene	99	98	74 - 134	1	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
4-Bromofluorobenzene	103	104	71 - 139
1,2-Dichloroethane-d4 (Surr)	94	93	62 - 118
Toluene-d8 (Surr)	103	99	73 - 117

Calculations are performed before rounding to avoid round-off errors in calculated results.

Login Sample Receipt Check List

Client: Engeo, Inc. Job Number: 720-12803-1

Login Number: 12803 **List Source: TestAmerica San Francisco**
Creator: Bullock, Tracy
List Number: 1

Question	T / F/ NA	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	NO TIMES
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	

APPENDIX C

TORRENT LABORATORY, INC.

Laboratory Analytical Report

Torrent
LABORATORY, INC.

December 27, 2007

Kelly Krohn
Engeo
2010 Crow Canyon Place,#250
San Ramon, CA 94583

TEL: (925) 570-7602
FAX (925) 866-0199

RE: 7584.1.001.01

Order No.: 0712091

Dear Kelly Krohn:

Torrent Laboratory, Inc. received 8 samples on 12/17/2007 for the analyses presented in the following report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc, is certified by the State of California, ELAP #1991. If you have any questions regarding these tests results, please feel free to contact the Project Management Team at (408)263-5258;ext: 204.

Sincerely,

Laboratory Director 12/27/07 Date

Patti Sandrock
QA Officer

TORRENT LABORATORY, INC.

483 Sinclair Frontage Road * Milpitas, CA * Phone: (408) 2635258 * Fax: (408) 263-8293
Visit us ar www.torrentlab.com email: analysis@torrentlab.com

Report Prepaired For: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Summary Report

SG-11 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-001A**

Parameter	Preped	Analyzed	Result	RL	Unit
2-Butanone (MEK)	12/26/2007	12/26/2007	77	0.70	µg/m³
Acetone	12/26/2007	12/26/2007	180	0.90	µg/m³
Benzene	12/26/2007	12/26/2007	3.5	1.4	µg/m³
m,p-Xylene	12/26/2007	12/26/2007	38	0.78	µg/m³
o-xylene	12/26/2007	12/26/2007	11	0.98	µg/m³
Tetrachloroethene	12/26/2007	12/26/2007	64	2.0	µg/m³
Toluene	12/26/2007	12/26/2007	25	0.83	µg/m³

SG-12 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-002A**

Parameter	Preped	Analyzed	Result	RL	Unit
2-Butanone (MEK)	12/26/2007	12/26/2007	31	0.69	µg/m³
Acetone	12/26/2007	12/26/2007	70	0.89	µg/m³
Benzene	12/26/2007	12/26/2007	2.5	1.4	µg/m³
m,p-Xylene	12/26/2007	12/26/2007	25	0.77	µg/m³
o-xylene	12/26/2007	12/26/2007	6.4	0.97	µg/m³
Tetrachloroethene	12/26/2007	12/26/2007	10	2.0	µg/m³
Toluene	12/26/2007	12/26/2007	16	0.82	µg/m³

SG-12 (Duplicate) **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-003A**

Parameter	Preped	Analyzed	Result	RL	Unit
2-Butanone (MEK)	12/26/2007	12/26/2007	28	0.65	µg/m³
Acetone	12/26/2007	12/26/2007	62	0.85	µg/m³
Benzene	12/26/2007	12/26/2007	2.2	1.3	µg/m³
m,p-Xylene	12/26/2007	12/26/2007	21	0.73	µg/m³
o-xylene	12/26/2007	12/26/2007	5.3	0.92	µg/m³
Tetrachloroethene	12/26/2007	12/26/2007	8.7	1.9	µg/m³
Toluene	12/26/2007	12/26/2007	14	0.78	µg/m³

SG-13 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-004A**

Parameter	Preped	Analyzed	Result	RL	Unit
2-Butanone (MEK)	12/26/2007	12/26/2007	42	0.44	µg/m³
Acetone	12/26/2007	12/26/2007	110	0.57	µg/m³

TORRENT LABORATORY, INC.

483 Sinclair Frontage Road * Milpitas, CA * Phone: (408) 2635258 * Fax: (408) 263-8293
Visit us ar www.torrentlab.com email: analysis@torrentlab.com

Report Prepaired For: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Summary Report

SG-13 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-004A**

Parameter	Preped	Analyzed	Result	RL	Unit
Benzene	12/26/2007	12/26/2007	3.1	0.89	µg/m³
Hexane	12/26/2007	12/26/2007	27	1.8	µg/m³
m,p-Xylene	12/26/2007	12/26/2007	34	0.49	µg/m³
o-xylene	12/26/2007	12/26/2007	9.2	0.62	µg/m³
Toluene	12/26/2007	12/26/2007	48	0.53	µg/m³

SG-14 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-005A**

Parameter	Preped	Analyzed	Result	RL	Unit
1,2,4-Trimethylbenzene	12/26/2007	12/26/2007	2.5	1.4	µg/m³
2-Hexanone	12/26/2007	12/26/2007	1.7	1.4	µg/m³
4-Ethyl Toluene	12/26/2007	12/26/2007	1.9	1.2	µg/m³
Ethyl Benzene	12/26/2007	12/26/2007	1.7	0.49	µg/m³
m,p-Xylene	12/26/2007	12/26/2007	8.0	0.77	µg/m³
Toluene	12/26/2007	12/26/2007	3.3	0.83	µg/m³

SG-15 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-006A**

Parameter	Preped	Analyzed	Result	RL	Unit
2-Butanone (MEK)	12/26/2007	12/26/2007	29	0.65	µg/m³
Acetone	12/26/2007	12/26/2007	200	0.84	µg/m³
Benzene	12/26/2007	12/26/2007	4.0	1.3	µg/m³
Hexane	12/26/2007	12/26/2007	59	2.6	µg/m³
m,p-Xylene	12/26/2007	12/26/2007	39	0.72	µg/m³
o-xylene	12/26/2007	12/26/2007	11	0.91	µg/m³
Toluene	12/26/2007	12/26/2007	68	0.78	µg/m³

SG-16 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-007A**

Parameter	Preped	Analyzed	Result	RL	Unit
2-Butanone (MEK)	12/26/2007	12/26/2007	110	0.66	µg/m³
Acetone	12/26/2007	12/26/2007	180	0.86	µg/m³
Benzene	12/26/2007	12/26/2007	6.6	1.3	µg/m³
cis-1,2-dichloroethene	12/26/2007	12/26/2007	7.9	0.83	µg/m³
Ethyl Benzene	12/26/2007	12/26/2007	8.2	0.47	µg/m³

TORRENT LABORATORY, INC.

483 Sinclair Frontage Road * Milpitas, CA * Phone: (408) 2635258 * Fax: (408) 263-8293
Visit us ar www.torrentlab.com email: analysis@torrentlab.com

Report Prepaired For: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Summary Report

SG-16 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-007A**

Parameter	Preped	Analyzed	Result	RL	Unit
m,p-Xylene	12/26/2007	12/26/2007	46	0.74	µg/m³
o-xylene	12/26/2007	12/26/2007	13	0.93	µg/m³
Tetrachloroethene	12/26/2007	12/26/2007	15	1.9	µg/m³
Toluene	12/26/2007	12/26/2007	30	0.79	µg/m³
trans-1,2-Dichloroethene	12/26/2007	12/26/2007	8.2	0.83	µg/m³
Trichloroethene	12/26/2007	12/26/2007	22	0.79	µg/m³

SG-10 **Toxic Organics in Air by EPA TO-15** **Lab ID: 0712091-008A**

Parameter	Preped	Analyzed	Result	RL	Unit
2-Butanone (MEK)	12/26/2007	12/26/2007	58	0.72	µg/m³
2-Hexanone	12/26/2007	12/26/2007	5.3	1.4	µg/m³
Acetone	12/26/2007	12/26/2007	100	0.93	µg/m³
Benzene	12/26/2007	12/26/2007	2.8	1.5	µg/m³
Hexane	12/26/2007	12/26/2007	17	2.9	µg/m³
m,p-Xylene	12/26/2007	12/26/2007	38	0.80	µg/m³
o-xylene	12/26/2007	12/26/2007	10	1.0	µg/m³
Toluene	12/26/2007	12/26/2007	31	0.86	µg/m³

TORRENT LABORATORY, INC.

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Visit us at www.torrentlab.com email: analysis@torrentlab.com

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-11
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 11:22:00 AM

Lab Sample ID: 0712091-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	12/26/2007	0.794	1.58	1.3	ND	µg/m³	R14916
1,1,1,2-Tetrachloroethane	TO-15	12/26/2007	0.687	1.58	1.1	ND	µg/m³	R14916
1,1,1-Trichloroethane	TO-15	12/26/2007	0.819	1.58	1.3	ND	µg/m³	R14916
1,1,2,2-Tetrachloroethane	TO-15	12/26/2007	1.0305	1.58	1.6	ND	µg/m³	R14916
1,1,2-Trichloroethane	TO-15	12/26/2007	1.0374	1.58	1.6	ND	µg/m³	R14916
1,1-Dichloroethane	TO-15	12/26/2007	0.6885	1.58	1.1	ND	µg/m³	R14916
1,2,4-Trichlorobenzene	TO-15	12/26/2007	0.4984	1.58	0.79	ND	µg/m³	R14916
1,2,4-Trimethylbenzene	TO-15	12/26/2007	0.8856	1.58	1.4	ND	µg/m³	R14916
1,2-Dibromoethane(Ethylene dibromide)	TO-15	12/26/2007	1.0752	1.58	1.7	ND	µg/m³	R14916
1,2-Dichlorobenzene	TO-15	12/26/2007	0.601	1.58	0.95	ND	µg/m³	R14916
1,2-Dichloroethane	TO-15	12/26/2007	0.648	1.58	1.0	ND	µg/m³	R14916
1,2-Dichloropropane	TO-15	12/26/2007	1.0164	1.58	1.6	ND	µg/m³	R14916
1,2-dichlorotetrafluoroethane(F114)	TO-15	12/26/2007	0.9375	1.58	1.5	ND	µg/m³	R14916
1,3,5-Trimethylbenzene	TO-15	12/26/2007	0.6888	1.58	1.1	ND	µg/m³	R14916
1,3-Butadiene	TO-15	12/26/2007	0.5967	1.58	0.94	ND	µg/m³	R14916
1,3-Dichlorobenzene	TO-15	12/26/2007	0.3606	1.58	0.57	ND	µg/m³	R14916
1,4-Dichlorobenzene	TO-15	12/26/2007	0.6611	1.58	1.0	ND	µg/m³	R14916
1,4-Dioxane	TO-15	12/26/2007	0.504	1.58	0.80	ND	µg/m³	R14916
2-Butanone (MEK)	TO-15	12/26/2007	0.4425	1.58	0.70	77	µg/m³	R14916
2-Hexanone	TO-15	12/26/2007	0.861	1.58	1.4	ND	µg/m³	R14916
4-Ethyl Toluene	TO-15	12/26/2007	0.738	1.58	1.2	ND	µg/m³	R14916
4-Methyl-2-Pentanone (MIBK)	TO-15	12/26/2007	0.656	1.58	1.0	ND	µg/m³	R14916
Acetone	TO-15	12/26/2007	0.5712	1.58	0.90	180	µg/m³	R14916
Benzene	TO-15	12/26/2007	0.8932	1.58	1.4	3.5	µg/m³	R14916
Benzyl Chloride	TO-15	12/26/2007	0.69	1.58	1.1	ND	µg/m³	R14916
Bromodichloromethane	TO-15	12/26/2007	0.871	1.58	1.4	ND	µg/m³	R14916
Bromoform	TO-15	12/26/2007	1.7578	1.58	2.8	ND	µg/m³	R14916
Bromomethane	TO-15	12/26/2007	0.776	1.58	1.2	ND	µg/m³	R14916
Carbon Disulfide	TO-15	12/26/2007	0.4976	1.58	0.79	ND	µg/m³	R14916
Carbon Tetrachloride	TO-15	12/26/2007	0.9435	1.58	1.5	ND	µg/m³	R14916
Chlorobenzene	TO-15	12/26/2007	0.4232	1.58	0.67	ND	µg/m³	R14916
Chloroethane	TO-15	12/26/2007	0.396	1.58	0.63	ND	µg/m³	R14916
Chloroform	TO-15	12/26/2007	1.952	1.58	3.1	ND	µg/m³	R14916
Chloromethane	TO-15	12/26/2007	0.7245	1.58	1.1	ND	µg/m³	R14916
cis-1,2-dichloroethene	TO-15	12/26/2007	0.5544	1.58	0.88	ND	µg/m³	R14916

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-11
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 11:22:00 AM

Lab Sample ID: 0712091-001
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
cis-1,3-Dichloropropene	TO-15	12/26/2007	0.3632	1.58	0.57	ND	µg/m³	R14916
Dibromochloromethane	TO-15	12/26/2007	0.9372	1.58	1.5	ND	µg/m³	R14916
Dichlorodifluoromethane	TO-15	12/26/2007	0.7425	1.58	1.2	ND	µg/m³	R14916
Ethyl Acetate	TO-15	12/26/2007	0.4248	1.58	0.67	ND	µg/m³	R14916
Ethyl Benzene	TO-15	12/26/2007	0.31062	1.58	0.49	ND	µg/m³	R14916
Freon 113	TO-15	12/26/2007	0.9192	1.58	1.5	ND	µg/m³	R14916
Hexachlorobutadiene	TO-15	12/26/2007	1.8139	1.58	2.9	ND	µg/m³	R14916
Hexane	TO-15	12/26/2007	1.7952	1.58	2.8	ND	µg/m³	R14916
Isopropanol	TO-15	12/26/2007	1.6359	1.58	2.6	ND	µg/m³	R14916
m,p-Xylene	TO-15	12/26/2007	0.492	1.58	0.78	38	µg/m³	R14916
Methylene Chloride	TO-15	12/26/2007	0.6859	1.58	1.1	ND	µg/m³	R14916
MTBE	TO-15	12/26/2007	0.5054	1.58	0.80	ND	µg/m³	R14916
Naphthalene	TO-15	12/26/2007	2.62	1.58	4.1	ND	µg/m³	R14916
o-xylene	TO-15	12/26/2007	0.62062	1.58	0.98	11	µg/m³	R14916
Styrene	TO-15	12/26/2007	0.639	1.58	1.0	ND	µg/m³	R14916
Tetrachloroethene	TO-15	12/26/2007	1.2882	1.58	2.0	64	µg/m³	R14916
Tetrahydrofuran	TO-15	12/26/2007	0.413	1.58	0.65	ND	µg/m³	R14916
Toluene	TO-15	12/26/2007	0.5278	1.58	0.83	25	µg/m³	R14916
trans-1,2-Dichloroethene	TO-15	12/26/2007	0.5544	1.58	0.88	ND	µg/m³	R14916
Trichloroethene	TO-15	12/26/2007	0.52626	1.58	0.83	ND	µg/m³	R14916
Trichlorofluoromethane	TO-15	12/26/2007	0.693	1.58	1.1	ND	µg/m³	R14916
Vinyl Acetate	TO-15	12/26/2007	0.64064	1.58	1.0	ND	µg/m³	R14916
Vinyl Chloride	TO-15	12/26/2007	0.24832	1.58	0.39	ND	µg/m³	R14916
Surr: 4-Bromofluorobenzene	TO-15	12/26/2007	0	1.58	65-135	95.0	%REC	R14916

Note: Due to low initial pressure in a Summa canister, sample was diluted prior to the analysis by addition of argon. Results are reported to the MDL.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-12
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 1:05:00 PM

Lab Sample ID: 0712091-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	12/26/2007	0.794	1.56	1.2	ND	µg/m³	R14916
1,1,1,2-Tetrachloroethane	TO-15	12/26/2007	0.687	1.56	1.1	ND	µg/m³	R14916
1,1,1-Trichloroethane	TO-15	12/26/2007	0.819	1.56	1.3	ND	µg/m³	R14916
1,1,2,2-Tetrachloroethane	TO-15	12/26/2007	1.0305	1.56	1.6	ND	µg/m³	R14916
1,1,2-Trichloroethane	TO-15	12/26/2007	1.0374	1.56	1.6	ND	µg/m³	R14916
1,1-Dichloroethane	TO-15	12/26/2007	0.6885	1.56	1.1	ND	µg/m³	R14916
1,2,4-Trichlorobenzene	TO-15	12/26/2007	0.4984	1.56	0.78	ND	µg/m³	R14916
1,2,4-Trimethylbenzene	TO-15	12/26/2007	0.8856	1.56	1.4	ND	µg/m³	R14916
1,2-Dibromoethane(Ethylene dibromide)	TO-15	12/26/2007	1.0752	1.56	1.7	ND	µg/m³	R14916
1,2-Dichlorobenzene	TO-15	12/26/2007	0.601	1.56	0.94	ND	µg/m³	R14916
1,2-Dichloroethane	TO-15	12/26/2007	0.648	1.56	1.0	ND	µg/m³	R14916
1,2-Dichloropropane	TO-15	12/26/2007	1.0164	1.56	1.6	ND	µg/m³	R14916
1,2-dichlorotetrafluoroethane(F114)	TO-15	12/26/2007	0.9375	1.56	1.5	ND	µg/m³	R14916
1,3,5-Trimethylbenzene	TO-15	12/26/2007	0.6888	1.56	1.1	ND	µg/m³	R14916
1,3-Butadiene	TO-15	12/26/2007	0.5967	1.56	0.93	ND	µg/m³	R14916
1,3-Dichlorobenzene	TO-15	12/26/2007	0.3606	1.56	0.56	ND	µg/m³	R14916
1,4-Dichlorobenzene	TO-15	12/26/2007	0.6611	1.56	1.0	ND	µg/m³	R14916
1,4-Dioxane	TO-15	12/26/2007	0.504	1.56	0.79	ND	µg/m³	R14916
2-Butanone (MEK)	TO-15	12/26/2007	0.4425	1.56	0.69	31	µg/m³	R14916
2-Hexanone	TO-15	12/26/2007	0.861	1.56	1.3	ND	µg/m³	R14916
4-Ethyl Toluene	TO-15	12/26/2007	0.738	1.56	1.2	ND	µg/m³	R14916
4-Methyl-2-Pentanone (MIBK)	TO-15	12/26/2007	0.656	1.56	1.0	ND	µg/m³	R14916
Acetone	TO-15	12/26/2007	0.5712	1.56	0.89	70	µg/m³	R14916
Benzene	TO-15	12/26/2007	0.8932	1.56	1.4	2.5 J	µg/m³	R14916
Benzyl Chloride	TO-15	12/26/2007	0.69	1.56	1.1	ND	µg/m³	R14916
Bromodichloromethane	TO-15	12/26/2007	0.871	1.56	1.4	ND	µg/m³	R14916
Bromoform	TO-15	12/26/2007	1.7578	1.56	2.7	ND	µg/m³	R14916
Bromomethane	TO-15	12/26/2007	0.776	1.56	1.2	ND	µg/m³	R14916
Carbon Disulfide	TO-15	12/26/2007	0.4976	1.56	0.78	ND	µg/m³	R14916
Carbon Tetrachloride	TO-15	12/26/2007	0.9435	1.56	1.5	ND	µg/m³	R14916
Chlorobenzene	TO-15	12/26/2007	0.4232	1.56	0.66	ND	µg/m³	R14916
Chloroethane	TO-15	12/26/2007	0.396	1.56	0.62	ND	µg/m³	R14916
Chloroform	TO-15	12/26/2007	1.952	1.56	3.0	ND	µg/m³	R14916
Chloromethane	TO-15	12/26/2007	0.7245	1.56	1.1	ND	µg/m³	R14916
cis-1,2-dichloroethene	TO-15	12/26/2007	0.5544	1.56	0.86	ND	µg/m³	R14916
cis-1,3-Dichloropropene	TO-15	12/26/2007	0.3632	1.56	0.57	ND	µg/m³	R14916
Dibromochloromethane	TO-15	12/26/2007	0.9372	1.56	1.5	ND	µg/m³	R14916
Dichlorodifluoromethane	TO-15	12/26/2007	0.7425	1.56	1.2	ND	µg/m³	R14916
Ethyl Acetate	TO-15	12/26/2007	0.4248	1.56	0.66	ND	µg/m³	R14916
Ethyl Benzene	TO-15	12/26/2007	0.31062	1.56	0.48	ND	µg/m³	R14916
Freon 113	TO-15	12/26/2007	0.9192	1.56	1.4	ND	µg/m³	R14916
Hexachlorobutadiene	TO-15	12/26/2007	1.8139	1.56	2.8	ND	µg/m³	R14916

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-12
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 1:05:00 PM

Lab Sample ID: 0712091-002
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	12/26/2007	1.7952	1.56	2.8	ND	µg/m³	R14916
Isopropanol	TO-15	12/26/2007	1.6359	1.56	2.6	ND	µg/m³	R14916
m,p-Xylene	TO-15	12/26/2007	0.492	1.56	0.77	25	µg/m³	R14916
Methylene Chloride	TO-15	12/26/2007	0.6859	1.56	1.1	ND	µg/m³	R14916
MTBE	TO-15	12/26/2007	0.5054	1.56	0.79	ND	µg/m³	R14916
Naphthalene	TO-15	12/26/2007	2.62	1.56	4.1	ND	µg/m³	R14916
o-xylene	TO-15	12/26/2007	0.62062	1.56	0.97	6.4	µg/m³	R14916
Styrene	TO-15	12/26/2007	0.639	1.56	1.0	ND	µg/m³	R14916
Tetrachloroethene	TO-15	12/26/2007	1.2882	1.56	2.0	10	µg/m³	R14916
Tetrahydrofuran	TO-15	12/26/2007	0.413	1.56	0.64	ND	µg/m³	R14916
Toluene	TO-15	12/26/2007	0.5278	1.56	0.82	16	µg/m³	R14916
trans-1,2-Dichloroethene	TO-15	12/26/2007	0.5544	1.56	0.86	ND	µg/m³	R14916
Trichloroethene	TO-15	12/26/2007	0.52626	1.56	0.82	ND	µg/m³	R14916
Trichlorofluoromethane	TO-15	12/26/2007	0.693	1.56	1.1	ND	µg/m³	R14916
Vinyl Acetate	TO-15	12/26/2007	0.64064	1.56	1.0	ND	µg/m³	R14916
Vinyl Chloride	TO-15	12/26/2007	0.24832	1.56	0.39	ND	µg/m³	R14916
Surr: 4-Bromofluorobenzene	TO-15	12/26/2007	0	1.56	65-135	96.2	%REC	R14916

Note: Due to low initial pressure in a Summa canister, sample was diluted prior to the analysis by addition of argon. Results are reported to the MDL.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-12 (Duplicate)
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 1:05:00 PM

Lab Sample ID: 0712091-003
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	12/26/2007	0.794	1.48	1.2	ND	µg/m³	R14916
1,1,1,2-Tetrachloroethane	TO-15	12/26/2007	0.687	1.48	1.0	ND	µg/m³	R14916
1,1,1-Trichloroethane	TO-15	12/26/2007	0.819	1.48	1.2	ND	µg/m³	R14916
1,1,2,2-Tetrachloroethane	TO-15	12/26/2007	1.0305	1.48	1.5	ND	µg/m³	R14916
1,1,2-Trichloroethane	TO-15	12/26/2007	1.0374	1.48	1.5	ND	µg/m³	R14916
1,1-Dichloroethane	TO-15	12/26/2007	0.6885	1.48	1.0	ND	µg/m³	R14916
1,2,4-Trichlorobenzene	TO-15	12/26/2007	0.4984	1.48	0.74	ND	µg/m³	R14916
1,2,4-Trimethylbenzene	TO-15	12/26/2007	0.8856	1.48	1.3	ND	µg/m³	R14916
1,2-Dibromoethane(Ethylene dibromide)	TO-15	12/26/2007	1.0752	1.48	1.6	ND	µg/m³	R14916
1,2-Dichlorobenzene	TO-15	12/26/2007	0.601	1.48	0.89	ND	µg/m³	R14916
1,2-Dichloroethane	TO-15	12/26/2007	0.648	1.48	0.96	ND	µg/m³	R14916
1,2-Dichloropropane	TO-15	12/26/2007	1.0164	1.48	1.5	ND	µg/m³	R14916
1,2-dichlorotetrafluoroethane(F114)	TO-15	12/26/2007	0.9375	1.48	1.4	ND	µg/m³	R14916
1,3,5-Trimethylbenzene	TO-15	12/26/2007	0.6888	1.48	1.0	ND	µg/m³	R14916
1,3-Butadiene	TO-15	12/26/2007	0.5967	1.48	0.88	ND	µg/m³	R14916
1,3-Dichlorobenzene	TO-15	12/26/2007	0.3606	1.48	0.53	ND	µg/m³	R14916
1,4-Dichlorobenzene	TO-15	12/26/2007	0.6611	1.48	0.98	ND	µg/m³	R14916
1,4-Dioxane	TO-15	12/26/2007	0.504	1.48	0.75	ND	µg/m³	R14916
2-Butanone (MEK)	TO-15	12/26/2007	0.4425	1.48	0.65	28	µg/m³	R14916
2-Hexanone	TO-15	12/26/2007	0.861	1.48	1.3	ND	µg/m³	R14916
4-Ethyl Toluene	TO-15	12/26/2007	0.738	1.48	1.1	ND	µg/m³	R14916
4-Methyl-2-Pentanone (MIBK)	TO-15	12/26/2007	0.656	1.48	0.97	ND	µg/m³	R14916
Acetone	TO-15	12/26/2007	0.5712	1.48	0.85	62	µg/m³	R14916
Benzene	TO-15	12/26/2007	0.8932	1.48	1.3	2.22 J	µg/m³	R14916
Benzyl Chloride	TO-15	12/26/2007	0.69	1.48	1.0	ND	µg/m³	R14916
Bromodichloromethane	TO-15	12/26/2007	0.871	1.48	1.3	ND	µg/m³	R14916
Bromoform	TO-15	12/26/2007	1.7578	1.48	2.6	ND	µg/m³	R14916
Bromomethane	TO-15	12/26/2007	0.776	1.48	1.1	ND	µg/m³	R14916
Carbon Disulfide	TO-15	12/26/2007	0.4976	1.48	0.74	ND	µg/m³	R14916
Carbon Tetrachloride	TO-15	12/26/2007	0.9435	1.48	1.4	ND	µg/m³	R14916
Chlorobenzene	TO-15	12/26/2007	0.4232	1.48	0.63	ND	µg/m³	R14916
Chloroethane	TO-15	12/26/2007	0.396	1.48	0.59	ND	µg/m³	R14916
Chloroform	TO-15	12/26/2007	1.952	1.48	2.9	ND	µg/m³	R14916
Chloromethane	TO-15	12/26/2007	0.7245	1.48	1.1	ND	µg/m³	R14916
cis-1,2-dichloroethene	TO-15	12/26/2007	0.5544	1.48	0.82	ND	µg/m³	R14916
cis-1,3-Dichloropropene	TO-15	12/26/2007	0.3632	1.48	0.54	ND	µg/m³	R14916
Dibromochloromethane	TO-15	12/26/2007	0.9372	1.48	1.4	ND	µg/m³	R14916
Dichlorodifluoromethane	TO-15	12/26/2007	0.7425	1.48	1.1	ND	µg/m³	R14916
Ethyl Acetate	TO-15	12/26/2007	0.4248	1.48	0.63	ND	µg/m³	R14916
Ethyl Benzene	TO-15	12/26/2007	0.31062	1.48	0.46	ND	µg/m³	R14916
Freon 113	TO-15	12/26/2007	0.9192	1.48	1.4	ND	µg/m³	R14916
Hexachlorobutadiene	TO-15	12/26/2007	1.8139	1.48	2.7	ND	µg/m³	R14916

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-12 (Duplicate)
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 1:05:00 PM

Lab Sample ID: 0712091-003
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	12/26/2007	1.7952	1.48	2.7	ND	µg/m³	R14916
Isopropanol	TO-15	12/26/2007	1.6359	1.48	2.4	ND	µg/m³	R14916
m,p-Xylene	TO-15	12/26/2007	0.492	1.48	0.73	21	µg/m³	R14916
Methylene Chloride	TO-15	12/26/2007	0.6859	1.48	1.0	ND	µg/m³	R14916
MTBE	TO-15	12/26/2007	0.5054	1.48	0.75	ND	µg/m³	R14916
Naphthalene	TO-15	12/26/2007	2.62	1.48	3.9	ND	µg/m³	R14916
o-xylene	TO-15	12/26/2007	0.62062	1.48	0.92	5.3	µg/m³	R14916
Styrene	TO-15	12/26/2007	0.639	1.48	0.95	ND	µg/m³	R14916
Tetrachloroethene	TO-15	12/26/2007	1.2882	1.48	1.9	8.7	µg/m³	R14916
Tetrahydrofuran	TO-15	12/26/2007	0.413	1.48	0.61	ND	µg/m³	R14916
Toluene	TO-15	12/26/2007	0.5278	1.48	0.78	14	µg/m³	R14916
trans-1,2-Dichloroethene	TO-15	12/26/2007	0.5544	1.48	0.82	ND	µg/m³	R14916
Trichloroethene	TO-15	12/26/2007	0.52626	1.48	0.78	ND	µg/m³	R14916
Trichlorofluoromethane	TO-15	12/26/2007	0.693	1.48	1.0	ND	µg/m³	R14916
Vinyl Acetate	TO-15	12/26/2007	0.64064	1.48	0.95	ND	µg/m³	R14916
Vinyl Chloride	TO-15	12/26/2007	0.24832	1.48	0.37	ND	µg/m³	R14916
Surr: 4-Bromofluorobenzene	TO-15	12/26/2007	0	1.48	65-135	93.8	%REC	R14916

Note: Due to low initial pressure in a Summa canister, sample was diluted prior to the analysis by addition of argon. Results are reported to the MDL.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-13
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 2:25:00 PM

Lab Sample ID: 0712091-004
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	12/26/2007	0.794	1	0.79	ND	µg/m³	R14916
1,1,1,2-Tetrachloroethane	TO-15	12/26/2007	0.687	1	0.69	ND	µg/m³	R14916
1,1,1-Trichloroethane	TO-15	12/26/2007	0.819	1	0.82	ND	µg/m³	R14916
1,1,2,2-Tetrachloroethane	TO-15	12/26/2007	1.0305	1	1.0	ND	µg/m³	R14916
1,1,2-Trichloroethane	TO-15	12/26/2007	1.0374	1	1.0	ND	µg/m³	R14916
1,1-Dichloroethane	TO-15	12/26/2007	0.6885	1	0.69	ND	µg/m³	R14916
1,2,4-Trichlorobenzene	TO-15	12/26/2007	0.4984	1	0.50	ND	µg/m³	R14916
1,2,4-Trimethylbenzene	TO-15	12/26/2007	0.8856	1	0.89	ND	µg/m³	R14916
1,2-Dibromoethane(Ethylene dibromide)	TO-15	12/26/2007	1.0752	1	1.1	ND	µg/m³	R14916
1,2-Dichlorobenzene	TO-15	12/26/2007	0.601	1	0.60	ND	µg/m³	R14916
1,2-Dichloroethane	TO-15	12/26/2007	0.648	1	0.65	ND	µg/m³	R14916
1,2-Dichloropropane	TO-15	12/26/2007	1.0164	1	1.0	ND	µg/m³	R14916
1,2-dichlorotetrafluoroethane(F114)	TO-15	12/26/2007	0.9375	1	0.94	ND	µg/m³	R14916
1,3,5-Trimethylbenzene	TO-15	12/26/2007	0.6888	1	0.69	ND	µg/m³	R14916
1,3-Butadiene	TO-15	12/26/2007	0.5967	1	0.60	ND	µg/m³	R14916
1,3-Dichlorobenzene	TO-15	12/26/2007	0.3606	1	0.36	ND	µg/m³	R14916
1,4-Dichlorobenzene	TO-15	12/26/2007	0.6611	1	0.66	ND	µg/m³	R14916
1,4-Dioxane	TO-15	12/26/2007	0.504	1	0.50	ND	µg/m³	R14916
2-Butanone (MEK)	TO-15	12/26/2007	0.4425	1	0.44	42	µg/m³	R14916
2-Hexanone	TO-15	12/26/2007	0.861	1	0.86	ND	µg/m³	R14916
4-Ethyl Toluene	TO-15	12/26/2007	0.738	1	0.74	ND	µg/m³	R14916
4-Methyl-2-Pentanone (MIBK)	TO-15	12/26/2007	0.656	1	0.66	ND	µg/m³	R14916
Acetone	TO-15	12/26/2007	0.5712	1	0.57	110	µg/m³	R14916
Benzene	TO-15	12/26/2007	0.8932	1	0.89	3.1	µg/m³	R14916
Benzyl Chloride	TO-15	12/26/2007	0.69	1	0.69	ND	µg/m³	R14916
Bromodichloromethane	TO-15	12/26/2007	0.871	1	0.87	ND	µg/m³	R14916
Bromoform	TO-15	12/26/2007	1.7578	1	1.8	ND	µg/m³	R14916
Bromomethane	TO-15	12/26/2007	0.776	1	0.78	ND	µg/m³	R14916
Carbon Disulfide	TO-15	12/26/2007	0.4976	1	0.50	ND	µg/m³	R14916
Carbon Tetrachloride	TO-15	12/26/2007	0.9435	1	0.94	ND	µg/m³	R14916
Chlorobenzene	TO-15	12/26/2007	0.4232	1	0.42	ND	µg/m³	R14916
Chloroethane	TO-15	12/26/2007	0.396	1	0.40	ND	µg/m³	R14916
Chloroform	TO-15	12/26/2007	1.952	1	2.0	ND	µg/m³	R14916
Chloromethane	TO-15	12/26/2007	0.7245	1	0.72	ND	µg/m³	R14916
cis-1,2-dichloroethene	TO-15	12/26/2007	0.5544	1	0.55	ND	µg/m³	R14916
cis-1,3-Dichloropropene	TO-15	12/26/2007	0.3632	1	0.36	ND	µg/m³	R14916
Dibromochloromethane	TO-15	12/26/2007	0.9372	1	0.94	ND	µg/m³	R14916
Dichlorodifluoromethane	TO-15	12/26/2007	0.7425	1	0.74	ND	µg/m³	R14916
Ethyl Acetate	TO-15	12/26/2007	0.4248	1	0.42	ND	µg/m³	R14916
Ethyl Benzene	TO-15	12/26/2007	0.31062	1	0.31	ND	µg/m³	R14916
Freon 113	TO-15	12/26/2007	0.9192	1	0.92	ND	µg/m³	R14916
Hexachlorobutadiene	TO-15	12/26/2007	1.8139	1	1.8	ND	µg/m³	R14916

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-13
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 2:25:00 PM

Lab Sample ID: 0712091-004
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	12/26/2007	1.7952	1	1.8	27	µg/m³	R14916
Isopropanol	TO-15	12/26/2007	1.6359	1	1.6	ND	µg/m³	R14916
m,p-Xylene	TO-15	12/26/2007	0.492	1	0.49	34	µg/m³	R14916
Methylene Chloride	TO-15	12/26/2007	0.6859	1	0.69	ND	µg/m³	R14916
MTBE	TO-15	12/26/2007	0.5054	1	0.51	ND	µg/m³	R14916
Naphthalene	TO-15	12/26/2007	2.62	1	2.6	ND	µg/m³	R14916
o-xylene	TO-15	12/26/2007	0.62062	1	0.62	9.2	µg/m³	R14916
Styrene	TO-15	12/26/2007	0.639	1	0.64	ND	µg/m³	R14916
Tetrachloroethene	TO-15	12/26/2007	1.2882	1	1.3	ND	µg/m³	R14916
Tetrahydrofuran	TO-15	12/26/2007	0.413	1	0.41	ND	µg/m³	R14916
Toluene	TO-15	12/26/2007	0.5278	1	0.53	48	µg/m³	R14916
trans-1,2-Dichloroethene	TO-15	12/26/2007	0.5544	1	0.55	ND	µg/m³	R14916
Trichloroethene	TO-15	12/26/2007	0.52626	1	0.53	ND	µg/m³	R14916
Trichlorofluoromethane	TO-15	12/26/2007	0.693	1	0.69	ND	µg/m³	R14916
Vinyl Acetate	TO-15	12/26/2007	0.64064	1	0.64	ND	µg/m³	R14916
Vinyl Chloride	TO-15	12/26/2007	0.24832	1	0.25	ND	µg/m³	R14916
Surr: 4-Bromofluorobenzene	TO-15	12/26/2007	0	1	65-135	94.2	%REC	R14916

Note: Results reported to the MDL.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-14
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 11:15:00 AM

Lab Sample ID: 0712091-005
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	12/26/2007	0.794	1.57	1.2	ND	µg/m³	R14916
1,1,1,2-Tetrachloroethane	TO-15	12/26/2007	0.687	1.57	1.1	ND	µg/m³	R14916
1,1,1-Trichloroethane	TO-15	12/26/2007	0.819	1.57	1.3	ND	µg/m³	R14916
1,1,2,2-Tetrachloroethane	TO-15	12/26/2007	1.0305	1.57	1.6	ND	µg/m³	R14916
1,1,2-Trichloroethane	TO-15	12/26/2007	1.0374	1.57	1.6	ND	µg/m³	R14916
1,1-Dichloroethane	TO-15	12/26/2007	0.6885	1.57	1.1	ND	µg/m³	R14916
1,2,4-Trichlorobenzene	TO-15	12/26/2007	0.4984	1.57	0.78	ND	µg/m³	R14916
1,2,4-Trimethylbenzene	TO-15	12/26/2007	0.8856	1.57	1.4	2.5 J	µg/m³	R14916
1,2-Dibromoethane(Ethylene dibromide)	TO-15	12/26/2007	1.0752	1.57	1.7	ND	µg/m³	R14916
1,2-Dichlorobenzene	TO-15	12/26/2007	0.601	1.57	0.94	ND	µg/m³	R14916
1,2-Dichloroethane	TO-15	12/26/2007	0.648	1.57	1.0	ND	µg/m³	R14916
1,2-Dichloropropane	TO-15	12/26/2007	1.0164	1.57	1.6	ND	µg/m³	R14916
1,2-dichlorotetrafluoroethane(F114)	TO-15	12/26/2007	0.9375	1.57	1.5	ND	µg/m³	R14916
1,3,5-Trimethylbenzene	TO-15	12/26/2007	0.6888	1.57	1.1	ND	µg/m³	R14916
1,3-Butadiene	TO-15	12/26/2007	0.5967	1.57	0.94	ND	µg/m³	R14916
1,3-Dichlorobenzene	TO-15	12/26/2007	0.3606	1.57	0.57	ND	µg/m³	R14916
1,4-Dichlorobenzene	TO-15	12/26/2007	0.6611	1.57	1.0	ND	µg/m³	R14916
1,4-Dioxane	TO-15	12/26/2007	0.504	1.57	0.79	ND	µg/m³	R14916
2-Butanone (MEK)	TO-15	12/26/2007	0.4425	1.57	0.69	ND	µg/m³	R14916
2-Hexanone	TO-15	12/26/2007	0.861	1.57	1.4	1.7 J	µg/m³	R14916
4-Ethyl Toluene	TO-15	12/26/2007	0.738	1.57	1.2	1.9 J	µg/m³	R14916
4-Methyl-2-Pentanone (MIBK)	TO-15	12/26/2007	0.656	1.57	1.0	ND	µg/m³	R14916
Acetone	TO-15	12/26/2007	0.5712	1.57	0.90	ND	µg/m³	R14916
Benzene	TO-15	12/26/2007	0.8932	1.57	1.4	ND	µg/m³	R14916
Benzyl Chloride	TO-15	12/26/2007	0.69	1.57	1.1	ND	µg/m³	R14916
Bromodichloromethane	TO-15	12/26/2007	0.871	1.57	1.4	ND	µg/m³	R14916
Bromoform	TO-15	12/26/2007	1.7578	1.57	2.8	ND	µg/m³	R14916
Bromomethane	TO-15	12/26/2007	0.776	1.57	1.2	ND	µg/m³	R14916
Carbon Disulfide	TO-15	12/26/2007	0.4976	1.57	0.78	ND	µg/m³	R14916
Carbon Tetrachloride	TO-15	12/26/2007	0.9435	1.57	1.5	ND	µg/m³	R14916
Chlorobenzene	TO-15	12/26/2007	0.4232	1.57	0.66	ND	µg/m³	R14916
Chloroethane	TO-15	12/26/2007	0.396	1.57	0.62	ND	µg/m³	R14916
Chloroform	TO-15	12/26/2007	1.952	1.57	3.1	ND	µg/m³	R14916
Chloromethane	TO-15	12/26/2007	0.7245	1.57	1.1	ND	µg/m³	R14916
cis-1,2-dichloroethene	TO-15	12/26/2007	0.5544	1.57	0.87	ND	µg/m³	R14916
cis-1,3-Dichloropropene	TO-15	12/26/2007	0.3632	1.57	0.57	ND	µg/m³	R14916
Dibromochloromethane	TO-15	12/26/2007	0.9372	1.57	1.5	ND	µg/m³	R14916
Dichlorodifluoromethane	TO-15	12/26/2007	0.7425	1.57	1.2	ND	µg/m³	R14916
Ethyl Acetate	TO-15	12/26/2007	0.4248	1.57	0.67	ND	µg/m³	R14916
Ethyl Benzene	TO-15	12/26/2007	0.31062	1.57	0.49	1.7 J	µg/m³	R14916
Freon 113	TO-15	12/26/2007	0.9192	1.57	1.4	ND	µg/m³	R14916
Hexachlorobutadiene	TO-15	12/26/2007	1.8139	1.57	2.8	ND	µg/m³	R14916

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-14
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 11:15:00 AM

Lab Sample ID: 0712091-005
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	12/26/2007	1.7952	1.57	2.8	ND	µg/m³	R14916
Isopropanol	TO-15	12/26/2007	1.6359	1.57	2.6	ND	µg/m³	R14916
m,p-Xylene	TO-15	12/26/2007	0.492	1.57	0.77	8.0	µg/m³	R14916
Methylene Chloride	TO-15	12/26/2007	0.6859	1.57	1.1	ND	µg/m³	R14916
MTBE	TO-15	12/26/2007	0.5054	1.57	0.79	ND	µg/m³	R14916
Naphthalene	TO-15	12/26/2007	2.62	1.57	4.1	ND	µg/m³	R14916
o-xylene	TO-15	12/26/2007	0.62062	1.57	0.97	ND	µg/m³	R14916
Styrene	TO-15	12/26/2007	0.639	1.57	1.0	ND	µg/m³	R14916
Tetrachloroethene	TO-15	12/26/2007	1.2882	1.57	2.0	ND	µg/m³	R14916
Tetrahydrofuran	TO-15	12/26/2007	0.413	1.57	0.65	ND	µg/m³	R14916
Toluene	TO-15	12/26/2007	0.5278	1.57	0.83	3.3	µg/m³	R14916
trans-1,2-Dichloroethene	TO-15	12/26/2007	0.5544	1.57	0.87	ND	µg/m³	R14916
Trichloroethene	TO-15	12/26/2007	0.52626	1.57	0.83	ND	µg/m³	R14916
Trichlorofluoromethane	TO-15	12/26/2007	0.693	1.57	1.1	ND	µg/m³	R14916
Vinyl Acetate	TO-15	12/26/2007	0.64064	1.57	1.0	ND	µg/m³	R14916
Vinyl Chloride	TO-15	12/26/2007	0.24832	1.57	0.39	ND	µg/m³	R14916
Surr: 4-Bromofluorobenzene	TO-15	12/26/2007	0	1.57	65-135	88.4	%REC	R14916

Note: Due to low initial pressure in a Summa canister, sample was diluted prior to the analysis by addition of argon. Results are reported to the MDL.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-15
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 1:57:00 PM

Lab Sample ID: 0712091-006
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	12/26/2007	0.794	1.47	1.2	ND	µg/m³	R14916
1,1,1,2-Tetrachloroethane	TO-15	12/26/2007	0.687	1.47	1.0	ND	µg/m³	R14916
1,1,1-Trichloroethane	TO-15	12/26/2007	0.819	1.47	1.2	ND	µg/m³	R14916
1,1,2,2-Tetrachloroethane	TO-15	12/26/2007	1.0305	1.47	1.5	ND	µg/m³	R14916
1,1,2-Trichloroethane	TO-15	12/26/2007	1.0374	1.47	1.5	ND	µg/m³	R14916
1,1-Dichloroethane	TO-15	12/26/2007	0.6885	1.47	1.0	ND	µg/m³	R14916
1,2,4-Trichlorobenzene	TO-15	12/26/2007	0.4984	1.47	0.73	ND	µg/m³	R14916
1,2,4-Trimethylbenzene	TO-15	12/26/2007	0.8856	1.47	1.3	ND	µg/m³	R14916
1,2-Dibromoethane(Ethylene dibromide)	TO-15	12/26/2007	1.0752	1.47	1.6	ND	µg/m³	R14916
1,2-Dichlorobenzene	TO-15	12/26/2007	0.601	1.47	0.88	ND	µg/m³	R14916
1,2-Dichloroethane	TO-15	12/26/2007	0.648	1.47	0.95	ND	µg/m³	R14916
1,2-Dichloropropane	TO-15	12/26/2007	1.0164	1.47	1.5	ND	µg/m³	R14916
1,2-dichlorotetrafluoroethane(F114)	TO-15	12/26/2007	0.9375	1.47	1.4	ND	µg/m³	R14916
1,3,5-Trimethylbenzene	TO-15	12/26/2007	0.6888	1.47	1.0	ND	µg/m³	R14916
1,3-Butadiene	TO-15	12/26/2007	0.5967	1.47	0.88	ND	µg/m³	R14916
1,3-Dichlorobenzene	TO-15	12/26/2007	0.3606	1.47	0.53	ND	µg/m³	R14916
1,4-Dichlorobenzene	TO-15	12/26/2007	0.6611	1.47	0.97	ND	µg/m³	R14916
1,4-Dioxane	TO-15	12/26/2007	0.504	1.47	0.74	ND	µg/m³	R14916
2-Butanone (MEK)	TO-15	12/26/2007	0.4425	1.47	0.65	29	µg/m³	R14916
2-Hexanone	TO-15	12/26/2007	0.861	1.47	1.3	ND	µg/m³	R14916
4-Ethyl Toluene	TO-15	12/26/2007	0.738	1.47	1.1	ND	µg/m³	R14916
4-Methyl-2-Pentanone (MIBK)	TO-15	12/26/2007	0.656	1.47	0.96	ND	µg/m³	R14916
Acetone	TO-15	12/26/2007	0.5712	1.47	0.84	200	µg/m³	R14916
Benzene	TO-15	12/26/2007	0.8932	1.47	1.3	4.0	µg/m³	R14916
Benzyl Chloride	TO-15	12/26/2007	0.69	1.47	1.0	ND	µg/m³	R14916
Bromodichloromethane	TO-15	12/26/2007	0.871	1.47	1.3	ND	µg/m³	R14916
Bromoform	TO-15	12/26/2007	1.7578	1.47	2.6	ND	µg/m³	R14916
Bromomethane	TO-15	12/26/2007	0.776	1.47	1.1	ND	µg/m³	R14916
Carbon Disulfide	TO-15	12/26/2007	0.4976	1.47	0.73	ND	µg/m³	R14916
Carbon Tetrachloride	TO-15	12/26/2007	0.9435	1.47	1.4	ND	µg/m³	R14916
Chlorobenzene	TO-15	12/26/2007	0.4232	1.47	0.62	ND	µg/m³	R14916
Chloroethane	TO-15	12/26/2007	0.396	1.47	0.58	ND	µg/m³	R14916
Chloroform	TO-15	12/26/2007	1.952	1.47	2.9	ND	µg/m³	R14916
Chloromethane	TO-15	12/26/2007	0.7245	1.47	1.1	ND	µg/m³	R14916
cis-1,2-dichloroethene	TO-15	12/26/2007	0.5544	1.47	0.81	ND	µg/m³	R14916
cis-1,3-Dichloropropene	TO-15	12/26/2007	0.3632	1.47	0.53	ND	µg/m³	R14916
Dibromochloromethane	TO-15	12/26/2007	0.9372	1.47	1.4	ND	µg/m³	R14916
Dichlorodifluoromethane	TO-15	12/26/2007	0.7425	1.47	1.1	ND	µg/m³	R14916
Ethyl Acetate	TO-15	12/26/2007	0.4248	1.47	0.62	ND	µg/m³	R14916
Ethyl Benzene	TO-15	12/26/2007	0.31062	1.47	0.46	ND	µg/m³	R14916
Freon 113	TO-15	12/26/2007	0.9192	1.47	1.4	ND	µg/m³	R14916
Hexachlorobutadiene	TO-15	12/26/2007	1.8139	1.47	2.7	ND	µg/m³	R14916

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-15
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 1:57:00 PM

Lab Sample ID: 0712091-006
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	12/26/2007	1.7952	1.47	2.6	59	µg/m³	R14916
Isopropanol	TO-15	12/26/2007	1.6359	1.47	2.4	ND	µg/m³	R14916
m,p-Xylene	TO-15	12/26/2007	0.492	1.47	0.72	39	µg/m³	R14916
Methylene Chloride	TO-15	12/26/2007	0.6859	1.47	1.0	ND	µg/m³	R14916
MTBE	TO-15	12/26/2007	0.5054	1.47	0.74	ND	µg/m³	R14916
Naphthalene	TO-15	12/26/2007	2.62	1.47	3.9	ND	µg/m³	R14916
o-xylene	TO-15	12/26/2007	0.62062	1.47	0.91	11	µg/m³	R14916
Styrene	TO-15	12/26/2007	0.639	1.47	0.94	ND	µg/m³	R14916
Tetrachloroethene	TO-15	12/26/2007	1.2882	1.47	1.9	ND	µg/m³	R14916
Tetrahydrofuran	TO-15	12/26/2007	0.413	1.47	0.61	ND	µg/m³	R14916
Toluene	TO-15	12/26/2007	0.5278	1.47	0.78	68	µg/m³	R14916
trans-1,2-Dichloroethene	TO-15	12/26/2007	0.5544	1.47	0.81	ND	µg/m³	R14916
Trichloroethene	TO-15	12/26/2007	0.52626	1.47	0.77	ND	µg/m³	R14916
Trichlorofluoromethane	TO-15	12/26/2007	0.693	1.47	1.0	ND	µg/m³	R14916
Vinyl Acetate	TO-15	12/26/2007	0.64064	1.47	0.94	ND	µg/m³	R14916
Vinyl Chloride	TO-15	12/26/2007	0.24832	1.47	0.37	ND	µg/m³	R14916
Surr: 4-Bromofluorobenzene	TO-15	12/26/2007	0	1.47	65-135	86.3	%REC	R14916

Note: Due to low initial pressure in a Summa canister, sample was diluted prior to the analysis by addition of argon. Results are reported to the MDL.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-16
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 12:36:00 PM

Lab Sample ID: 0712091-007
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	12/26/2007	0.794	1.5	1.2	ND	µg/m³	R14916
1,1,1,2-Tetrachloroethane	TO-15	12/26/2007	0.687	1.5	1.0	ND	µg/m³	R14916
1,1,1-Trichloroethane	TO-15	12/26/2007	0.819	1.5	1.2	ND	µg/m³	R14916
1,1,2,2-Tetrachloroethane	TO-15	12/26/2007	1.0305	1.5	1.5	ND	µg/m³	R14916
1,1,2-Trichloroethane	TO-15	12/26/2007	1.0374	1.5	1.6	ND	µg/m³	R14916
1,1-Dichloroethane	TO-15	12/26/2007	0.6885	1.5	1.0	ND	µg/m³	R14916
1,2,4-Trichlorobenzene	TO-15	12/26/2007	0.4984	1.5	0.75	ND	µg/m³	R14916
1,2,4-Trimethylbenzene	TO-15	12/26/2007	0.8856	1.5	1.3	ND	µg/m³	R14916
1,2-Dibromoethane(Ethylene dibromide)	TO-15	12/26/2007	1.0752	1.5	1.6	ND	µg/m³	R14916
1,2-Dichlorobenzene	TO-15	12/26/2007	0.601	1.5	0.90	ND	µg/m³	R14916
1,2-Dichloroethane	TO-15	12/26/2007	0.648	1.5	0.97	ND	µg/m³	R14916
1,2-Dichloropropane	TO-15	12/26/2007	1.0164	1.5	1.5	ND	µg/m³	R14916
1,2-dichlorotetrafluoroethane(F114)	TO-15	12/26/2007	0.9375	1.5	1.4	ND	µg/m³	R14916
1,3,5-Trimethylbenzene	TO-15	12/26/2007	0.6888	1.5	1.0	ND	µg/m³	R14916
1,3-Butadiene	TO-15	12/26/2007	0.5967	1.5	0.90	ND	µg/m³	R14916
1,3-Dichlorobenzene	TO-15	12/26/2007	0.3606	1.5	0.54	ND	µg/m³	R14916
1,4-Dichlorobenzene	TO-15	12/26/2007	0.6611	1.5	0.99	ND	µg/m³	R14916
1,4-Dioxane	TO-15	12/26/2007	0.504	1.5	0.76	ND	µg/m³	R14916
2-Butanone (MEK)	TO-15	12/26/2007	0.4425	1.5	0.66	110	µg/m³	R14916
2-Hexanone	TO-15	12/26/2007	0.861	1.5	1.3	ND	µg/m³	R14916
4-Ethyl Toluene	TO-15	12/26/2007	0.738	1.5	1.1	ND	µg/m³	R14916
4-Methyl-2-Pentanone (MIBK)	TO-15	12/26/2007	0.656	1.5	0.98	ND	µg/m³	R14916
Acetone	TO-15	12/26/2007	0.5712	1.5	0.86	180	µg/m³	R14916
Benzene	TO-15	12/26/2007	0.8932	1.5	1.3	6.6	µg/m³	R14916
Benzyl Chloride	TO-15	12/26/2007	0.69	1.5	1.0	ND	µg/m³	R14916
Bromodichloromethane	TO-15	12/26/2007	0.871	1.5	1.3	ND	µg/m³	R14916
Bromoform	TO-15	12/26/2007	1.7578	1.5	2.6	ND	µg/m³	R14916
Bromomethane	TO-15	12/26/2007	0.776	1.5	1.2	ND	µg/m³	R14916
Carbon Disulfide	TO-15	12/26/2007	0.4976	1.5	0.75	ND	µg/m³	R14916
Carbon Tetrachloride	TO-15	12/26/2007	0.9435	1.5	1.4	ND	µg/m³	R14916
Chlorobenzene	TO-15	12/26/2007	0.4232	1.5	0.63	ND	µg/m³	R14916
Chloroethane	TO-15	12/26/2007	0.396	1.5	0.59	ND	µg/m³	R14916
Chloroform	TO-15	12/26/2007	1.952	1.5	2.9	ND	µg/m³	R14916
Chloromethane	TO-15	12/26/2007	0.7245	1.5	1.1	ND	µg/m³	R14916
cis-1,2-dichloroethene	TO-15	12/26/2007	0.5544	1.5	0.83	7.9	µg/m³	R14916
cis-1,3-Dichloropropene	TO-15	12/26/2007	0.3632	1.5	0.54	ND	µg/m³	R14916
Dibromochloromethane	TO-15	12/26/2007	0.9372	1.5	1.4	ND	µg/m³	R14916
Dichlorodifluoromethane	TO-15	12/26/2007	0.7425	1.5	1.1	ND	µg/m³	R14916
Ethyl Acetate	TO-15	12/26/2007	0.4248	1.5	0.64	ND	µg/m³	R14916
Ethyl Benzene	TO-15	12/26/2007	0.31062	1.5	0.47	8.2	µg/m³	R14916
Freon 113	TO-15	12/26/2007	0.9192	1.5	1.4	ND	µg/m³	R14916
Hexachlorobutadiene	TO-15	12/26/2007	1.8139	1.5	2.7	ND	µg/m³	R14916

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-16
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 12:36:00 PM

Lab Sample ID: 0712091-007
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	12/26/2007	1.7952	1.5	2.7	ND	µg/m³	R14916
Isopropanol	TO-15	12/26/2007	1.6359	1.5	2.5	ND	µg/m³	R14916
m,p-Xylene	TO-15	12/26/2007	0.492	1.5	0.74	46	µg/m³	R14916
Methylene Chloride	TO-15	12/26/2007	0.6859	1.5	1.0	ND	µg/m³	R14916
MTBE	TO-15	12/26/2007	0.5054	1.5	0.76	ND	µg/m³	R14916
Naphthalene	TO-15	12/26/2007	2.62	1.5	3.9	ND	µg/m³	R14916
o-xylene	TO-15	12/26/2007	0.62062	1.5	0.93	13	µg/m³	R14916
Styrene	TO-15	12/26/2007	0.639	1.5	0.96	ND	µg/m³	R14916
Tetrachloroethene	TO-15	12/26/2007	1.2882	1.5	1.9	15	µg/m³	R14916
Tetrahydrofuran	TO-15	12/26/2007	0.413	1.5	0.62	ND	µg/m³	R14916
Toluene	TO-15	12/26/2007	0.5278	1.5	0.79	30	µg/m³	R14916
trans-1,2-Dichloroethene	TO-15	12/26/2007	0.5544	1.5	0.83	8.2	µg/m³	R14916
Trichloroethene	TO-15	12/26/2007	0.52626	1.5	0.79	22	µg/m³	R14916
Trichlorofluoromethane	TO-15	12/26/2007	0.693	1.5	1.0	ND	µg/m³	R14916
Vinyl Acetate	TO-15	12/26/2007	0.64064	1.5	0.96	ND	µg/m³	R14916
Vinyl Chloride	TO-15	12/26/2007	0.24832	1.5	0.37	ND	µg/m³	R14916
Surr: 4-Bromofluorobenzene	TO-15	12/26/2007	0	1.5	65-135	90.7	%REC	R14916

Note: Due to low initial pressure in a Summa canister, sample was diluted prior to the analysis by addition of argon. Results are reported to the MDL.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-10
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 2:57:00 PM

Lab Sample ID: 0712091-008
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
1,1 - Dichloroethene	TO-15	12/26/2007	0.794	1.63	1.3	ND	µg/m³	R14916
1,1,1,2-Tetrachloroethane	TO-15	12/26/2007	0.687	1.63	1.1	ND	µg/m³	R14916
1,1,1-Trichloroethane	TO-15	12/26/2007	0.819	1.63	1.3	ND	µg/m³	R14916
1,1,2,2-Tetrachloroethane	TO-15	12/26/2007	1.0305	1.63	1.7	ND	µg/m³	R14916
1,1,2-Trichloroethane	TO-15	12/26/2007	1.0374	1.63	1.7	ND	µg/m³	R14916
1,1-Dichloroethane	TO-15	12/26/2007	0.6885	1.63	1.1	ND	µg/m³	R14916
1,2,4-Trichlorobenzene	TO-15	12/26/2007	0.4984	1.63	0.81	ND	µg/m³	R14916
1,2,4-Trimethylbenzene	TO-15	12/26/2007	0.8856	1.63	1.4	ND	µg/m³	R14916
1,2-Dibromoethane(Ethylene dibromide)	TO-15	12/26/2007	1.0752	1.63	1.8	ND	µg/m³	R14916
1,2-Dichlorobenzene	TO-15	12/26/2007	0.601	1.63	0.98	ND	µg/m³	R14916
1,2-Dichloroethane	TO-15	12/26/2007	0.648	1.63	1.1	ND	µg/m³	R14916
1,2-Dichloropropane	TO-15	12/26/2007	1.0164	1.63	1.7	ND	µg/m³	R14916
1,2-dichlorotetrafluoroethane(F114)	TO-15	12/26/2007	0.9375	1.63	1.5	ND	µg/m³	R14916
1,3,5-Trimethylbenzene	TO-15	12/26/2007	0.6888	1.63	1.1	ND	µg/m³	R14916
1,3-Butadiene	TO-15	12/26/2007	0.5967	1.63	0.97	ND	µg/m³	R14916
1,3-Dichlorobenzene	TO-15	12/26/2007	0.3606	1.63	0.59	ND	µg/m³	R14916
1,4-Dichlorobenzene	TO-15	12/26/2007	0.6611	1.63	1.1	ND	µg/m³	R14916
1,4-Dioxane	TO-15	12/26/2007	0.504	1.63	0.82	ND	µg/m³	R14916
2-Butanone (MEK)	TO-15	12/26/2007	0.4425	1.63	0.72	58	µg/m³	R14916
2-Hexanone	TO-15	12/26/2007	0.861	1.63	1.4	5.3	µg/m³	R14916
4-Ethyl Toluene	TO-15	12/26/2007	0.738	1.63	1.2	ND	µg/m³	R14916
4-Methyl-2-Pentanone (MIBK)	TO-15	12/26/2007	0.656	1.63	1.1	ND	µg/m³	R14916
Acetone	TO-15	12/26/2007	0.5712	1.63	0.93	100	µg/m³	R14916
Benzene	TO-15	12/26/2007	0.8932	1.63	1.5	2.8	µg/m³	R14916
Benzyl Chloride	TO-15	12/26/2007	0.69	1.63	1.1	ND	µg/m³	R14916
Bromodichloromethane	TO-15	12/26/2007	0.871	1.63	1.4	ND	µg/m³	R14916
Bromoform	TO-15	12/26/2007	1.7578	1.63	2.9	ND	µg/m³	R14916
Bromomethane	TO-15	12/26/2007	0.776	1.63	1.3	ND	µg/m³	R14916
Carbon Disulfide	TO-15	12/26/2007	0.4976	1.63	0.81	ND	µg/m³	R14916
Carbon Tetrachloride	TO-15	12/26/2007	0.9435	1.63	1.5	ND	µg/m³	R14916
Chlorobenzene	TO-15	12/26/2007	0.4232	1.63	0.69	ND	µg/m³	R14916
Chloroethane	TO-15	12/26/2007	0.396	1.63	0.65	ND	µg/m³	R14916
Chloroform	TO-15	12/26/2007	1.952	1.63	3.2	ND	µg/m³	R14916
Chloromethane	TO-15	12/26/2007	0.7245	1.63	1.2	ND	µg/m³	R14916
cis-1,2-dichloroethene	TO-15	12/26/2007	0.5544	1.63	0.90	ND	µg/m³	R14916
cis-1,3-Dichloropropene	TO-15	12/26/2007	0.3632	1.63	0.59	ND	µg/m³	R14916
Dibromochloromethane	TO-15	12/26/2007	0.9372	1.63	1.5	ND	µg/m³	R14916
Dichlorodifluoromethane	TO-15	12/26/2007	0.7425	1.63	1.2	ND	µg/m³	R14916
Ethyl Acetate	TO-15	12/26/2007	0.4248	1.63	0.69	ND	µg/m³	R14916
Ethyl Benzene	TO-15	12/26/2007	0.31062	1.63	0.51	ND	µg/m³	R14916
Freon 113	TO-15	12/26/2007	0.9192	1.63	1.5	ND	µg/m³	R14916
Hexachlorobutadiene	TO-15	12/26/2007	1.8139	1.63	3.0	ND	µg/m³	R14916

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Report prepared for: Kelly Krohn
Engeo

Date Received: 12/17/2007
Date Reported: 12/27/2007

Client Sample ID: SG-10
Sample Location: 224 Rickenbacker Circle
Sample Matrix: AIR
Date/Time Sampled 12/17/2007 2:57:00 PM

Lab Sample ID: 0712091-008
Date Prepared:

Parameters	Analysis Method	Date Analyzed	RL	Dilution Factor	MRL	Result	Units	Analytical Batch
Hexane	TO-15	12/26/2007	1.7952	1.63	2.9	17	µg/m³	R14916
Isopropanol	TO-15	12/26/2007	1.6359	1.63	2.7	ND	µg/m³	R14916
m,p-Xylene	TO-15	12/26/2007	0.492	1.63	0.80	38	µg/m³	R14916
Methylene Chloride	TO-15	12/26/2007	0.6859	1.63	1.1	ND	µg/m³	R14916
MTBE	TO-15	12/26/2007	0.5054	1.63	0.82	ND	µg/m³	R14916
Naphthalene	TO-15	12/26/2007	2.62	1.63	4.3	ND	µg/m³	R14916
o-xylene	TO-15	12/26/2007	0.62062	1.63	1.0	10	µg/m³	R14916
Styrene	TO-15	12/26/2007	0.639	1.63	1.0	ND	µg/m³	R14916
Tetrachloroethene	TO-15	12/26/2007	1.2882	1.63	2.1	ND	µg/m³	R14916
Tetrahydrofuran	TO-15	12/26/2007	0.413	1.63	0.67	ND	µg/m³	R14916
Toluene	TO-15	12/26/2007	0.5278	1.63	0.86	31	µg/m³	R14916
trans-1,2-Dichloroethene	TO-15	12/26/2007	0.5544	1.63	0.90	ND	µg/m³	R14916
Trichloroethene	TO-15	12/26/2007	0.52626	1.63	0.86	ND	µg/m³	R14916
Trichlorofluoromethane	TO-15	12/26/2007	0.693	1.63	1.1	ND	µg/m³	R14916
Vinyl Acetate	TO-15	12/26/2007	0.64064	1.63	1.0	ND	µg/m³	R14916
Vinyl Chloride	TO-15	12/26/2007	0.24832	1.63	0.40	ND	µg/m³	R14916
Surr: 4-Bromofluorobenzene	TO-15	12/26/2007	0	1.63	65-150	86.8	%REC	R14916

Note: Due to low initial pressure in a Summa canister, sample was diluted prior to the analysis by addition of argon. Results are reported to the MDL.

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

Definitions, legends and Notes

Note	Description
ug/kg	Microgram per kilogram (ppb, part per billion).
ug/L	Microgram per liter (ppb, part per billion).
mg/kg	Milligram per kilogram (ppm, part per million).
mg/L	Milligram per liter (ppm, part per million).
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate.
MDL	Method detection limit.
MRL	Modified reporting limit. When sample is subject to dilution, reporting limit times dilution factor yields MRL.
MS/MSD	Matrix spike/matrix spike duplicate.
N/A	Not applicable.
ND	Not detected at or above detection limit.
NR	Not reported.
QC	Quality Control.
RL	Reporting limit.
% RPD	Percent relative difference.
a	pH was measured immediately upon the receipt of the sample, but it was still done outside the holding time.
sub	Analyzed by subcontracting laboratory, Lab Certificate #

These analyses were performed according to State of California Environmental Laboratory Accreditation program, Certificate # 1991

CLIENT: Engeo
Work Order: 0712091
Project: 7584.1.001.01

ANALYTICAL QC SUMMARY REPORT

BatchID: R14916

Sample ID **mb**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **12/26/2007**	RunNo: **14916**
Client ID: **ZZZZZ**	Batch ID: **R14916**	TestNo: **TO-15**		Analysis Date: **12/26/2007**	SeqNo: **214608**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	ND	0.20									
1,1,1,2-Tetrachloroethane	ND	0.10									
1,1,1-Trichloroethane	ND	0.15									
1,1,2,2-Tetrachloroethane	ND	0.15									
1,1,2-Trichloroethane	ND	0.19									
1,1-Dichloroethane	ND	0.17									
1,2,4-Trichlorobenzene	ND	0.070									
1,2,4-Trimethylbenzene	ND	0.18									
1,2-Dibromoethane(Ethylene dibromide	ND	0.14									
1,2-Dichlorobenzene	ND	0.10									
1,2-Dichloroethane	ND	0.16									
1,2-Dichloropropane	ND	0.22									
1,2-dichlorotetrafluoroethane(F114)	ND	0.15									
1,3,5-Trimethylbenzene	ND	0.14									
1,3-Butadiene	ND	0.27									
1,3-Dichlorobenzene	ND	0.060									
1,4-Dichlorobenzene	ND	0.11									
1,4-Dioxane	ND	0.14									
2-Butanone (MEK)	ND	0.15									
2-Hexanone	ND	0.21									
4-Ethyl Toluene	ND	0.15									
4-Methyl-2-Pentanone (MIBK)	ND	0.16									
Acetone	ND	0.24									
Benzene	ND	0.28									
Benzyl Chloride	ND	0.12									
Bromodichloromethane	ND	0.13									
Bromoform	ND	0.17									
Bromomethane	ND	0.20									
Carbon Disulfide	ND	0.16									
Carbon Tetrachloride	ND	0.15									

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Engeo
Work Order: 0712091
Project: 7584.1.001.01

ANALYTICAL QC SUMMARY REPORT

BatchID: R14916

Sample ID **mb**	SampType: **MBLK**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **12/26/2007**	RunNo: **14916**
Client ID: **ZZZZZ**	Batch ID: **R14916**	TestNo: **TO-15**		Analysis Date: **12/26/2007**	SeqNo: **214608**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.092									
Chloroethane	ND	0.15									
Chloroform	ND	0.40									
Chloromethane	ND	0.35									
cis-1,2-dichloroethene	ND	0.14									
cis-1,3-Dichloropropene	ND	0.080									
Dibromochloromethane	ND	0.11									
Dichlorodifluoromethane	ND	0.15									
Ethyl Acetate	ND	0.12									
Ethyl Benzene	ND	0.093									
Freon 113	ND	0.12									
Hexachlorobutadiene	ND	0.17									
Hexane	ND	0.51									
Isopropanol	ND	0.40									
m,p-Xylene	ND	0.12									
Methylene Chloride	ND	0.19									
MTBE	ND	0.14									
Naphthalene	ND	0.50									
o-xylene	ND	0.14									
Styrene	ND	0.15									
Tetrachloroethene	ND	0.19									
Tetrahydrofuran	ND	0.14									
Toluene	ND	0.14									
trans-1,2-Dichloroethene	ND	0.14									
Trichloroethene	ND	0.098									
Trichlorofluoromethane	ND	0.14									
Vinyl Acetate	ND	0.18									
Vinyl Chloride	ND	0.097									
Surr: 4-Bromofluorobenzene	18.14	0	20	0	90.7	65	135				

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Engeo
Work Order: 0712091
Project: 7584.1.001.01

ANALYTICAL QC SUMMARY REPORT

BatchID: R14916

Sample ID **LCS**	SampType: **LCS**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **12/26/2007**	RunNo: **14916**
Client ID: **ZZZZZ**	Batch ID: **R14916**	TestNo: **TO-15**		Analysis Date: **12/26/2007**	SeqNo: **214609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	20.56	0.20	20	0	103	65	135				
1,1,1,2-Tetrachloroethane	23.18	0.10	20	0	116	65	135				
1,1,1-Trichloroethane	20.37	0.15	20	0	102	65	135				
1,1,2,2-Tetrachloroethane	23.48	0.15	20	0	117	65	135				
1,1,2-Trichloroethane	23.08	0.19	20	0	115	65	135				
1,1-Dichloroethane	20.54	0.17	20	0	103	65	135				
1,2,4-Trichlorobenzene	20.15	0.070	20	0	101	65	135				
1,2,4-Trimethylbenzene	22.24	0.18	20	0	111	65	135				
1,2-Dibromoethane(Ethylene dibromide	22.31	0.14	20	0	112	65	135				
1,2-Dichlorobenzene	21.85	0.10	20	0	109	65	135				
1,2-Dichloroethane	23.54	0.16	20	0	118	65	135				
1,2-Dichloropropane	24.14	0.22	20	0	121	65	135				
1,2-dichlorotetrafluoroethane(F114)	19.79	0.15	20	0	99.0	65	135				
1,3,5-Trimethylbenzene	23.15	0.14	20	0	116	65	135				
1,3-Butadiene	20.86	0.27	20	0	104	65	135				
1,3-Dichlorobenzene	21.84	0.060	20	0	109	65	135				
1,4-Dichlorobenzene	21.84	0.11	20	0	109	65	135				
1,4-Dioxane	23.83	0.14	20	0	119	65	135				
2-Butanone (MEK)	22.23	0.15	20	0	111	65	135				
2-Hexanone	24.32	0.21	20	0	122	65	135				
4-Ethyl Toluene	22.61	0.15	20	0	113	65	135				
4-Methyl-2-Pentanone (MIBK)	23.39	0.16	20	0	117	65	135				
Acetone	17.46	0.24	20	0	87.3	65	135				
Benzene	19.99	0.28	20	0	100	65	135				
Benzyl Chloride	22.24	0.12	20	0	111	65	135				
Bromodichloromethane	23.53	0.13	20	0	118	65	135				
Bromoform	24.06	0.17	20	0	120	65	135				
Bromomethane	20.49	0.20	20	0	102	65	135				
Carbon Disulfide	21.53	0.16	20	0	108	65	135				
Carbon Tetrachloride	20.09	0.15	20	0	100	65	135				
Chlorobenzene	23.12	0.092	20	0	116	65	135				

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Engeo
Work Order: 0712091
Project: 7584.1.001.01

ANALYTICAL QC SUMMARY REPORT

BatchID: R14916

Sample ID **LCS**	SampType: **LCS**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **12/26/2007**	RunNo: **14916**
Client ID: **ZZZZZ**	Batch ID: **R14916**	TestNo: **TO-15**		Analysis Date: **12/26/2007**	SeqNo: **214609**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	20.33	0.15	20	0	102	65	135				
Chloroform	20.46	0.40	20	0	102	65	135				
Chloromethane	25.88	0.35	20	0	129	65	135				
cis-1,2-dichloroethene	20.11	0.14	20	0	101	65	135				
cis-1,3-Dichloropropene	22.81	0.080	20	0	114	65	135				
Dibromochloromethane	23.07	0.11	20	0	115	65	135				
Ethyl Acetate	22.04	0.12	20	0	110	65	135				
Ethyl Benzene	22.36	0.093	20	0	112	65	135				
Freon 113	21.48	0.12	20	0	107	65	135				
Hexachlorobutadiene	19.66	0.17	20	0	98.3	65	135				
Hexane	20.52	0.51	20	0	103	65	135				
Isopropanol	22.21	0.40	20	0	111	65	135				
m,p-Xylene	44.02	0.12	40	0	110	65	135				
Methylene Chloride	20.88	0.19	20	0	104	65	135				
MTBE	20.82	0.14	20	0	104	65	135				
Naphthalene	20.49	0.50	20	0	102	65	135				
o-xylene	21.47	0.14	20	0	107	65	135				
Styrene	22.29	0.15	20	0	111	65	135				
Tetrachloroethene	22.83	0.19	20	0	114	65	135				
Toluene	22.69	0.14	20	0	113	65	135				
trans-1,2-Dichloroethene	20.04	0.14	20	0	100	65	135				
Trichloroethene	21.26	0.098	20	0	106	65	135				
Trichlorofluoromethane	21.60	0.14	20	0	108	65	135				
Vinyl Acetate	21.20	0.18	20	0	106	65	135				
Vinyl Chloride	20.96	0.097	20	0	105	65	135				
Surr: 4-Bromofluorobenzene	20.20	0	20	0	101	65	135				

Sample ID **LCSD**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **12/26/2007**	RunNo: **14916**
Client ID: **ZZZZZ**	Batch ID: **R14916**	TestNo: **TO-15**		Analysis Date: **12/26/2007**	SeqNo: **214610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

CLIENT: Engeo
Work Order: 0712091
Project: 7584.1.001.01

ANALYTICAL QC SUMMARY REPORT

BatchID: R14916

Sample ID **LCSD**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **12/26/2007**	RunNo: **14916**
Client ID: **ZZZZZ**	Batch ID: **R14916**	TestNo: **TO-15**		Analysis Date: **12/26/2007**	SeqNo: **214610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1 - Dichloroethene	19.90	0.20	20	0	99.5	65	135	20.56	3.26	30	
1,1,1,2-Tetrachloroethane	23.06	0.10	20	0	115	65	135	23.18	0.519	30	
1,1,1-Trichloroethane	20.76	0.15	20	0	104	65	135	20.37	1.90	30	
1,1,2,2-Tetrachloroethane	22.36	0.15	20	0	112	65	135	23.48	4.89	30	
1,1,2-Trichloroethane	22.78	0.19	20	0	114	65	135	23.08	1.31	30	
1,1-Dichloroethane	19.60	0.17	20	0	98.0	65	135	20.54	4.68	30	
1,2,4-Trichlorobenzene	19.48	0.070	20	0	97.4	65	135	20.15	3.38	30	
1,2,4-Trimethylbenzene	21.93	0.18	20	0	110	65	135	22.24	1.40	30	
1,2-Dibromoethane(Ethylene dibromide	22.50	0.14	20	0	112	65	135	22.31	0.848	30	
1,2-Dichlorobenzene	20.72	0.10	20	0	104	65	135	21.85	5.31	30	
1,2-Dichloroethane	22.50	0.16	20	0	112	65	135	23.54	4.52	30	
1,2-Dichloropropane	23.93	0.22	20	0	120	65	135	24.14	0.874	30	
1,2-dichlorotetrafluoroethane(F114)	23.36	0.15	20	0	117	65	135	19.79	16.5	30	
1,3,5-Trimethylbenzene	22.69	0.14	20	0	113	65	135	23.15	2.01	30	
1,3-Butadiene	20.43	0.27	20	0	102	65	135	20.86	2.08	30	
1,3-Dichlorobenzene	20.80	0.060	20	0	104	65	135	21.84	4.88	30	
1,4-Dichlorobenzene	20.80	0.11	20	0	104	65	135	21.84	4.88	30	
1,4-Dioxane	22.93	0.14	20	0	115	65	135	23.83	3.85	30	
2-Butanone (MEK)	20.92	0.15	20	0	105	65	135	22.23	6.07	30	
2-Hexanone	23.18	0.21	20	0	116	65	135	24.32	4.80	30	
4-Ethyl Toluene	22.17	0.15	20	0	111	65	135	22.61	1.97	30	
4-Methyl-2-Pentanone (MIBK)	22.64	0.16	20	0	113	65	135	23.39	3.26	30	
Acetone	20.64	0.24	20	0	103	65	135	17.46	16.7	30	
Benzene	21.22	0.28	20	0	106	65	135	19.99	5.97	30	
Benzyl Chloride	21.71	0.12	20	0	109	65	135	22.24	2.41	30	
Bromodichloromethane	22.12	0.13	20	0	111	65	135	23.53	6.18	30	
Bromoform	24.49	0.17	20	0	122	65	135	24.06	1.77	30	
Bromomethane	20.44	0.20	20	0	102	65	135	20.49	0.244	30	
Carbon Disulfide	20.76	0.16	20	0	104	65	135	21.53	3.64	30	
Carbon Tetrachloride	20.32	0.15	20	0	102	65	135	20.09	1.14	30	
Chlorobenzene	21.94	0.092	20	0	110	65	135	23.12	5.24	30	

Qualifiers:
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: Engeo
Work Order: 0712091
Project: 7584.1.001.01

ANALYTICAL QC SUMMARY REPORT

BatchID: R14916

Sample ID **LCSD**	SampType: **LCSD**	TestCode: **TO-15**	Units: **ppbv**	Prep Date: **12/26/2007**	RunNo: **14916**
Client ID: **ZZZZZ**	Batch ID: **R14916**	TestNo: **TO-15**		Analysis Date: **12/26/2007**	SeqNo: **214610**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroethane	20.49	0.15	20	0	102	65	135	20.33	0.784	30	
Chloroform	17.45	0.40	20	0	87.2	65	135	20.46	15.9	30	
Chloromethane	20.80	0.35	20	0	104	65	135	25.88	21.8	30	
cis-1,2-dichloroethene	19.53	0.14	20	0	97.6	65	135	20.11	2.93	30	
cis-1,3-Dichloropropene	22.60	0.080	20	0	113	65	135	22.81	0.925	30	
Dibromochloromethane	23.35	0.11	20	0	117	65	135	23.07	1.21	30	
Ethyl Acetate	20.81	0.12	20	0	104	65	135	22.04	5.74	30	
Ethyl Benzene	22.22	0.093	20	0	111	65	135	22.36	0.628	30	
Freon 113	20.68	0.12	20	0	103	65	135	21.48	3.80	30	
Hexachlorobutadiene	19.40	0.17	20	0	97.0	65	135	19.66	1.33	30	
Hexane	20.89	0.51	20	0	104	65	135	20.52	1.79	30	
Isopropanol	20.38	0.40	20	0	102	65	135	22.21	8.59	30	
m,p-Xylene	43.48	0.12	40	0	109	65	135	44.02	1.23	30	
Methylene Chloride	21.34	0.19	20	0	107	65	135	20.88	2.18	30	
MTBE	21.10	0.14	20	0	106	65	135	20.82	1.34	30	
Naphthalene	18.88	0.50	20	0	94.4	65	135	20.49	8.18	30	
o-xylene	21.75	0.14	20	0	109	65	135	21.47	1.30	30	
Styrene	21.97	0.15	20	0	110	65	135	22.29	1.45	30	
Tetrachloroethene	22.64	0.19	20	0	113	65	135	22.83	0.836	30	
Toluene	22.70	0.14	20	0	114	65	135	22.69	0.0441	30	
trans-1,2-Dichloroethene	19.45	0.14	20	0	97.3	65	135	20.04	2.99	30	
Trichloroethene	21.78	0.098	20	0	109	65	135	21.26	2.42	30	
Trichlorofluoromethane	20.92	0.14	20	0	105	65	135	21.6	3.20	30	
Vinyl Acetate	20.69	0.18	20	0	103	65	135	21.2	2.43	30	
Vinyl Chloride	22.19	0.097	20	0	111	65	135	20.96	5.70	30	
Surr: 4-Bromofluorobenzene	20.24	0	20	0	101	65	135	0	0	30	

Qualifiers:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits	S	Spike Recovery outside accepted recovery limits

0712091

CHAIN OF CUSTODY RECORD

PROJECT NUMBER:	PROJECT NAME:
7584.1.001.01	224 Rickenbacker Circle

SAMPLED BY: (SIGNATURE/PRINT) RICHARD GANDARA

PROJECT MANAGER: Kelly Krohn

ROUTING: E-MAIL kkrohn@engeo.com Hard Copy Kelly Krohn

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TO-15	REMARKS REQUIRED DETECTION LIMITS
SG-11	17-Dec-07	11:22	Air	1	6 L Summa	None	X	01A
SG-12	17-Dec-07	13:05	Air	1			X	02A
SG-12(Duplicate)	17-Dec-07	13:05	Air	1			X	03A
SG-13	17-Dec-07	14:25	Air	1			X	04A
SG-14	17-Dec-07	11:15	Air	1			X	05A
SG-15	17-Dec-07	13:57	Air	1			X	06A
SG-16	17-Dec-07	12:36	Air	1			X	07A
SG-10	17-Dec-07	14:57	Air	1			X	08A

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	12/17/07 16:02				
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	12/17/07 17:40			12/17 17:40	
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
				Standard TAT	

ENGEO INCORPORATED

2010 CROW CANYON PLACE, SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (925) 866-0199
WWW.ENGEO.COM

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12/17/17

Kelly Krohn

From: Project Management [pm@torrentlab.com]
Sent: Monday, July 21, 2008 12:50 PM
To: Kelly Krohn
Subject: RE: Initial and Final Pressures for 0712091 Canister

HI Kelly,

I am not the best person to answer the 1st question becuase I do not know the mathimatical conversion factors necessary to move from PSI to Hg inches but I have passed on the question to Mukesh. I know there is no direct conversion because the Hg inches are a much broader range than the definitive PSI units, but that's all I know!

As far as the dilution factor affecting results - the factor is applied to the raw value determined so the final result reported is the true value, not a manipulated value. The biggest effect is in the initial reporting limit which is raised by the dilution factor so that samples that ar ND have a raised ND value. This happens because all of the detection limits are based on an undiluted volume of spiked sample introduced onto the column. As with waters and soils, the DLs are "perfect world" limits so anything outside of that scenario is affected up or down: a decresed DL (concentration of a sample) or increased DL (dilution or prep factor).

Give me a call if I need to clear up some mud in that response!

Patti

On Mon, July 21, 2008 11:10 am, Kelly Krohn wrote:
> Hi Patti,
>
>
> We have a few follow up questions regarding the information you have
> provided below.
>
> 1. Laboratory Pressure Readings - please verify the reported units on
> the previously provided pdf. As stated below, the units are psi;
> however, we cannot resolve the conversion to mm Hg. 2. A dilution
> factor has been applied to all of the samples. Has this dilution
> factor in any way biased the final results?
>
> We very much appreciate your help.
>
>
> Thank you,
> Kelly
>
>
> Kelly Krohn, PE
>
>
> Project Engineer
>
>
>
>
> -----Original Message-----
> From: Project Management [mailto:pm@torrentlab.com]
> Sent: Monday, June 02, 2008 2:05 PM
> To: Kelly Krohn
> Subject: RE: Initial and Final Pressures for 0712091 Canister
>
>

> Hi Kelly,
>
>
> No, those is actually PSI values. In order to introduce 500 mL of
> sample onto the instrument, the HG inches must be as close to -5" as
> possible. FOr low level analysis, we need to introduce a full Liter
> onto the instrument and then the Hg inches must be between "0" and
> "+5" inches. As a result, Anytime we receive the canister with less
> that -5" of Mercury, it ia Torrent's practice to add Argon to the
> canister to raise the pressure to 0" (plus or minues 5"). When two or
> more analyses are requested (TO-15, TO-3, ASTM1946D, etc), we raise
> the Hg inches to slightly above 0 in order to prevent the necessity of
> adding additional Argon later for the multiple tests - or, if ESLs are
> required for most compounds but some are way over calibration range,
> multiple injections of different volume may be necessay.
>
> I looked at the tags attached to the canisters that were submitted by
> En GEO and almost all of them had -7" or less. I could copy those
> tags and send them to you if you would like. Just let me kow.
>
>
> On Mon, June 2, 2008 1:38 pm, Kelly Krohn wrote:
>
>> This looks great. I assume that the initial pressure would be that
>> at the time of receipt. May I ask why it is needed to increase the
> pressure?
>> Are the units mm Hg?
>>
>>
>>
>> Thanks,
>> Kelly
>>
>>
>>
>>
>> Kelly Krohn, PE
>>
>>
>>
>> Project Engineer
>>
>>
>>
>>
>>
>> -----Original Message-----
>> From: Project Management [mailto:pm@torrentlab.com]
>> Sent: Monday, June 02, 2008 1:11 PM
>> To: Kelly Krohn
>> Subject: Initial and Final Pressures for 0712091 Canister
>>
>>
>>
>> Hi Kelly,
>>
>>
>>
>> Attached is a copy from our intital/final pressure logbook that is
>>
> kept
>> at the instrument. Is this what you were looking for? Let me know!
>>
>> Patti
>>
>>

>>
>>
>> Project Management Team
>> Torrent Laboratory, Inc.
>> 483 Sinclair Frontage Rd
>> Milpitas, CA 95035
>> PH:(408)263-5258; Nutan x209, Patti x208, Stacy 707-206-0216
>> Fax:(408)263-8293
>> Email: pm@torrentlab.com
>> www.torrentlab.com
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> Warm regards,
>
>
> Project Management Team
> Torrent Laboratory, Inc.
> 483 Sinclair Frontage Rd
> Milpitas, CA 95035
> PH:(408)263-5258; Nutan x209, Patti x208, Stacy 707-206-0216
> Fax:(408)263-8293
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>

Warm regards,

Project Management Team
Torrent Laboratory, Inc.
483 Sinclair Frontage Rd
Milpitas, CA 95035
PH:(408)263-5258; Nutan x209, Patti x208, Stacy 707-206-0216

Fax:(408)263-8293
Email: pm@torrentlab.com
www.torrentlab.com

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APPENDIX D

Monitoring Well Sampling Data Sheets

ENGEO INCORPORATED
GROUNDWATER MONITORING WELL SAMPLING DATA

Job Name: *224 Rickenbacker Circle*	Job Number: *7584.100.101*
Location: *224 Rickenbacker Circle, Livermore, CA*	Date: *January 28, 2008*
Client: *Mr. Robert Strong*	By: *Richard Gandolfo*

WELL INFORMATION

Well Number: ***MW-1***	Diameter (in): *2*
Total Depth (feet below top of casing): *34.5*	Screen Interval (feet bgs): *10 to 35*
Depth to Water (ft): *25.1*	Casing Volume (gal): *1.59*

PURGING INFORMATION

Bailer: N/A Pump: *12-V* Rate (gpm): *0.15*	Time (initial/finish): *9:46 / 10:00*
Volume Removed (gal): 5	No. of Casing Volumes: *3*

Time	Volume (gal.)	DO (mg/l)	Temp. (°C)	Conductivity (mS/cm)	Salinity (%)	pH
9:46	*1/2*	*7.49*	*16.5*	*0.910*	*0.04*	*7.70*
9:49	*1*	*7.52*	*17.4*	*0.940*	*0.04*	*7.54*
9:50	*1.5*	*7.70*	*17.7*	*0.813*	*0.03*	*7.49*
9:53	*2*	*7.71*	*17.7*	*0.807*	*0.03*	*7.50*
9:55	*4*	*7.73*	*17.9*	*0.809*	*0.03*	*7.45*
9:57	*4.5*	*7.84*	*18.2*	*0.806*	*0.03*	*7.40*
10:00	*5.0*	*7.97*	*18.2*	*0.807*	*0.03*	*7.40*

SAMPLE INFORMATION AND LABORATORY TESTING PARAMETERS

Bailer: N/A Pump: *12-V* Rate (gpm): *0.15* Decon: *TSP/Alconox*

Sample ID	Sample Date/Time	Field Blank Sample ID (if applicable)	Duplicate Sample ID (if applicable)
MW-1	*1/28/2008 10:00*	*N/A*	*N/A*

Quantity of Containers	**Size and Preservative**	**Test Method**	**Analytes**
3	40-mL VOA, HCl preserved	EPA 8260B	Volatile Organic Compounds

ENGEO INCORPORATED
GROUNDWATER MONITORING WELL SAMPLING DATA

Job Name: *224 Rickenbacker Circle*	Job Number: *7584.100.101*
Location: *224 Rickenbacker Circle, Livermore, CA*	Date: *January 28, 2008*
Client: *Mr. Robert Strong*	By: *Richard Gandolfo*

WELL INFORMATION

Well Number: ***MW-2***	Diameter (in): *2*
Total Depth (feet below top of casing): *34.3*	Screen Interval (feet bgs): *10 to 35*
Depth to Water (ft): *25.23*	Casing Volume (gal): *1.56*

PURGING INFORMATION

Bailer: N/A Pump: *12-V* Rate (gpm): *0.15*	Time (initial/finish): *11:26 / 11:45*
Volume Removed (gal): 5.5	No. of Casing Volumes: *3.5*

Time	Volume (gal.)	DO (mg/l)	Temp. (°C)	Conductivity (mS/cm)	Salinity (%)	pH
11:26	*1/2*	*8.11*	*15.9*	*0.774*	*0.04*	*7.58*
11:29	*1*	*8.08*	*17.2*	*0.801*	*0.03*	*7.48*
11:31	*2*	*7.84*	*18.1*	*0.807*	*0.03*	*7.39*
11:33	*3*	*7.90*	*18.1*	*0.810*	*0.03*	*7.41*
11:34	*3.5*	*8.10*	*18.2*	*0.805*	*0.03*	*7.41*
11:36	*4*	*8.12*	*18.3*	*0.807*	*0.03*	*7.40*
11:37	*4.5*	*8.13*	*18.2*	*0.803*	*0.03*	*7.41*
11:40	*5*	*8.05*	*17.8*	*0.795*	*0.03*	*7.39*
11:45	*5.5*	*7.85*	*18.4*	*0.800*	*0.03*	*7.39*

SAMPLE INFORMATION AND LABORATORY TESTING PARAMETERS

Bailer: N/A Pump: *12-V* Rate (gpm): *0.15* Decon: *TSP/Alconox*

Sample ID	Sample Date/Time	Field Blank Sample ID (if applicable)	Duplicate Sample ID (if applicable)
MW-2	*1/28/2008 11:45*	*N/A*	*N/A*

Quantity of Containers	**Size and Preservative**	**Test Method**	**Analytes**
3	40-mL VOA, HCl preserved	EPA 8260B	Volatile Organic Compounds

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Location: *224 Rickenbacker Circle, Livermore, CA*	Date: *January 28, 2008*
Client: *Mr. Robert Strong*	By: *Richard Gandolfo*

WELL INFORMATION

Well Number: ***MW-3***	Diameter (in): *2*
Total Depth (feet below top of casing): *34.6*	Screen Interval (feet bgs): *10 to 35*
Depth to Water (ft): *25.25*	Casing Volume (gal): *1.58*

PURGING INFORMATION

Bailer: N/A Pump: *12-V* Rate (gpm): *0.15*	Time (initial/finish): *8:30 / 8:57*
Volume Removed (gal): 5	No. of Casing Volumes: *3*

Time	Volume (gal.)	DO (mg/l)	Temp. (°C)	Conductivity (mS/cm)	Salinity (%)	pH
8:30	*½*	*7.54*	*15.2*	--	*0.03*	*7.62*
8:40	*1.5*	*8.02*	*17.2*	*0.779*	*0.03*	*7.45*
8:42	*2*	*6.88*	*17.7*	*0.788*	*0.03*	*7.50*
8:44	*2.5*	*7.44*	*17.7*	*0.790*	*0.03*	*7.49*
8:48	*3*	*7.37*	*17.9*	*0.784*	*0.03*	*7.46*
8:50	*3.5*	*7.66*	*17.4*	*0.785*	*0.03*	*7.48*
8:52	*4*	*7.68*	*18.1*	*0.788*	*0.03*	*7.40*
8:54	*4.5*	*7.77*	*18.0*	*0.787*	*0.03*	*7.43*
8:57	*5*	*7.93*	*18.0*	*0.785*	*0.03*	*7.40*

SAMPLE INFORMATION AND LABORATORY TESTING PARAMETERS

Bailer: N/A Pump: *12-V* Rate (gpm): *0.15* Decon: *TSP/Alconox*

Sample ID	Sample Date/Time	Field Blank Sample ID (if applicable)	Duplicate Sample ID (if applicable)
MW-3	*1/28/2008 8:57*	*N/A*	*N/A*

Quantity of Containers	**Size and Preservative**	**Test Method**	**Analytes**
3	40-mL VOA, HCl preserved	EPA 8260B	Volatile Organic Compounds