76 Broadway
Sacramento, California 95818

February 23, 2011

Mr. Mark Detterman
Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-577

Re: Report Submittal
Soil and Groundwater Investigation Report
76 Service Station #3737
1400 Powell Street
Emeryville, Alameda County, CA
Case# RO 067

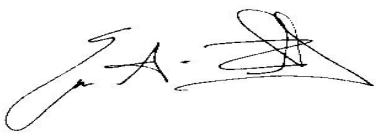
Dear Mr. Detterman:

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached report is/are true and correct.

If you have any questions or need additional information, please call:

Ted Moise (Contractor)
ConocoPhillips
Risk Management & Remediation
76 Broadway
Sacramento, CA 95818
Phone: (510) 245-5162
Fax: (918) 662-4480

Sincerely,



Eric G. Hetrick
Site Manager
Risk Management & Remediation

Soil and Groundwater Investigation Report

Chevron Branded Service
Station No. 3737
1400 Powell Street
Emeryville, California

Alameda County Health Care Services
Case No. RO0000067

Antea Group Project No. C103737121
February 22, 2011

Prepared for:
Mr. Mark E. Detterman
Hazardous Materials Specialist
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1131 Harbor Bay Parkway
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Prepared by:
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Inogen Environmental Alliance

Soil and Groundwater Investigation Report

Chevron Branded Service Station No. 3737
1400 Powell Street, Emeryville, California

Antea Group Project No. C103737121
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Table of Contents

Tables

Figures

Appendices

Soil and Groundwater Investigation Report

Chevron Branded Service Station No. 3737
1400 Powell Street, Emeryville, California

1.0 INTRODUCTION

On behalf of ConocoPhillips Company (ConocoPhillips), Antea™Group (formerly Delta Consultants) has prepared this *Soil and Groundwater Investigation Report* for the Chevron branded service station located at 1400 Powell Street in Emeryville California (**Figure 1**). The investigation described in this report was originally requested by the Alameda County Environmental Health Department (ACEH) in a letter dated November 19, 2009. In response to the letter, Delta Consultants (Delta) submitted a *Work Plan for Soil and Groundwater Investigation* dated May 19, 2010. The work plan originally proposed the installation of ten groundwater monitoring wells in four separate groundwater zones in order to assess groundwater conditions and concentrations reported during the 2009 cone penetrometer test (CPT) investigation. In a letter dated December 2 2010, the ACEH generally concurred with Delta Consultant's proposed work, but requested that three well clusters be installed, with one shallow and one intermediate zone well per cluster, for a total of six wells. Pertinent agency correspondence is included in **Appendix A**. The following report documents the installation of three A-Zone wells (MW-1A, MW-2A and MW-3A) and three B-Zone wells (MW-1B, MW-2B and MW-3B).

1.1 Site Description

The site is located at 1400 Powell Street, Emeryville, California, which is currently an active Chevron Service Station and overlies the southern portion of a former Unocal bulk storage facility that operated from 1917 to 1964. Current site facilities include three 10,000 gallon capacity underground fuel storage tanks for diesel fuel, regular and super unleaded gasoline, four dispenser islands, a canopy and station building. A propane fueling station is located in the northwest portion of the site. **Figure 2** presents the layout of current features on the property and the approximate location of former site features that occupied the property while it operated as a Unocal bulk storage facility. Properties in the immediate site vicinity are predominantly residential and commercial. Local topography is generally flat with an average site elevation of approximately 15 feet above mean sea level (MSL). Site soils consist of silts and clays with thin layers of sand and gravel.

1.2 Petroleum Hydrocarbon Terminology

Over the history of site investigations, laboratories and consultants have used a wide variety of terms for petroleum hydrocarbons reported in analysis of soil and water. Antea™Group (Antea Group) uses the designation TPH-G for total petroleum hydrocarbons as gasoline within the C4 to C12 carbon range. Soil and groundwater samples are analyzed typically by United States Environmental Protection Agency (EPA) method 8015B or 8260B. Antea Group uses the designation TPH-D for total petroleum hydrocarbons within the C12 to C23 carbon range, and TPH-MO for total petroleum hydrocarbons as motor oil within the C24 to C32 carbon range.

Terms from previous reports include total purgeable petroleum hydrocarbons (TPPH) or gasoline range organics (GRO) for TPH-G; and total extractable petroleum hydrocarbons (TEPH) or diesel range organics (DRO) for TPH-D, which are generally comparable. Total recoverable petroleum hydrocarbons (TRPH) generally refer to a broad spectrum of petroleum hydrocarbons in the C8 to C40 carbon range. Antea Group has presented data in terms of TPH-G, TPH-D and TPH-MO in summarizing results of previous investigations.

1.3 Background

Between 1917 and 1964 Union Oil Company of California operated a Distribution Plant that was bounded by Powell Street to the south, 59th Street to the north, Peladeau Street to the west, and Hollis Street to the east. This distribution facility contained numerous above ground and underground storage tanks (ASTs and USTs), a garage along Hollis Street and an auto repair shop along Peladeau Street (Treadwell & Rollo, 2007). The entire gasoline service station was constructed on what was Union Oil Company of California Distribution Plant property. On the portion of the former Distribution Plant that the Subject site currently occupies, there were a total of eight ASTs containing oil and gasoline on the west side, and an oil warehouse, oil pump, and asphalt staging area on the east side.

The eight former ASTs located on the western portion of the Site had a combined storage capacity of 624,000 gallons, and were installed within the former berm. The lateral extent of this former bermed area includes the location of the three existing USTs as well as a majority of the existing underground piping and dispensers currently at the site. According to Treadwell & Rollo's Site Management Completion report for 5885 Hollis Street, Emeryville, dated January 5, 2007, elevated levels of hydrocarbons were observed in soils of the Emeryville Industrial Court, now Emerystation East, the property located north of the subject site, soil samples collected from soil borings TR-25 and TR-28, located approximately 5 feet north of the Site's northern property line, contained maximum concentrations of 2,100 milligrams per kilogram (mg/kg) of TPH-G and 280 mg/kg of TPH-MO, respectively, at 6 feet below ground surface (bgs). A grab groundwater sample collected from TR-25 contained 150,000 micrograms per liter (µg/L) TPH-G and 2,500 µg/L benzene.

March through June 2006: The entire Emerystation East property was excavated to a total depth of approximately 12 to 15 feet bgs to prepare the foundation of the building that currently occupies the site. Confirmation soil samples collected in the area to the north of the Subject site on the Emerystation East property indicated that TPH-G and TPH-MO were detected at maximum concentrations of 10 mg/kg and 6.0 mg/kg, respectively. During the excavation of the foundation for the Emerystation East building, three dewatering wells were installed and sampled on a weekly basis. Dewatering well DW-14, located in the southwestern corner of the property, had high levels of TPH-G, TPH-D, and benzene, toluene, ethyl benzene, and total xylenes (BTEX) throughout the course of the excavation work. The maximum concentrations of TPH-G and TPH-D detected in extracted groundwater were 1,800 µg/L and 370 µg/L, respectively (Treadwell & Rollo, 2007).

August 11, 1993: GeoStrategies oversaw the removal of an Oil-Water separator.

September 10, 1997: A soil gas survey was conducted by Pacific Environmental Group Inc.

May 7, 1999: Under the supervision of TRC, Norman and Norman completed the removal of product piping associated with the former fuel dispenser islands. Immediately following the piping removal soil samples D-I, D-2, PL-I, PL-2, PL-3, and PL-4 were collected at selected points along the former product line trench and at the former dispenser islands, at depths ranging from 1.5 to 4.0 feet bgs. The samples were analyzed for TPH-G, TPH-D, BTEX, and methyl tertiary butyl ether (MTBE) by EPA Methods 8015/8020.

May 11, 1999: Norman and Norman under the supervision of TRC and Robert Weston with Alameda County Environmental Health Services, over excavated soil from below the former northwest dispenser and product piping. Approximately six cubic yards of soil was removed. Soil sample PL-2 was collected from below the excavation, at a depth of 4 feet bgs. In addition, a groundwater sample (TCW-I) was collected and analyzed for TPH-G, TPH-D, BTEX, and MTBE by EPA Methods *8015/8020.*

May 24, 1999: One single-walled 550-gallon steel waste oil UST, located west of the station building was removed under the direction of Susan Hugo with ACHCS and supervision of TRC. Soil samples WO-4 through WO-7 and WO-I were collected from the bottom and sidewalls of the excavation at depths of 7.5 and 10 feet bgs and analyzed for TPH-G, TPH-D, TPH-MO, BTEX, and MTBE.

November 6, 2007: Site transferred to Delta Consultants.

July 2009: Delta oversaw the advancement of CPT borings CPT-1 through CPT-7 to depths of approximately 60 feet bgs. Details of this investigation are presented in Delta's *Report of CPT Delineation of Fuel Hydrocarbon Affected Soil and Groundwater*, dated August 18, 2009.

March 31 through April 5, 2010, Treadwell and Rollo conducted an investigation associated with 5885 Hollis street, the neighboring site to the north. During this investigation, Treadwell & Rollo (TR) advanced 9 CPT borings; TRCPT-1 through TRCPT-8 were advanced immediately west of the two properties along the length of Peladeau Street and TRCPT-9 was advanced within the loading dock area between the two properties, north of the service station. Analytes were detected only in shallow soils collected from three of the borings (5 to 6 feet bgs in TRCPT-5 and TRCPT-7 and 10 feet bgs in TRCPT-9), but were not detected in deeper samples collected from the borings nor were analytes detected in soil samples from CPT-6 or CPT-8. Soil results were compared with Regional Water Quality Control Board (RWQCB) Table B-2 Environmental Screening Levels (ESLs) for shallow soil not used as a drinking water resource, and groundwater samples were compared with Table D ESLs for deep soil (>3 meters

deep) not used as a drinking water resource. TPH-G, TPH-D, and naphthalene were the only analytes reported above the ESL values in the shallow soil samples.

Groundwater analytical results showed that TPH-G, benzene, ethylbenzene, and naphthalene detections in TRCPT-5 exceeded ESLs. In TRCPT-6, ESLs were exceeded for the TPH-D, TPH-MO, and TPH-G detections, while in TRCPT-7 and TRCPT-9, ESL values were only exceeded for TPH-G. However, detection limits of TPH-D and TPH-MO were elevated such that reporting limits exceeded ESL values, therefore, for these two constituents, accurate comparisons to ESLs, and the determination of whether or not ESLs have been exceeded, cannot be concluded with the groundwater data available from TRCPT-7 through TRCPT-9. ESLs have not been established for all constituents analyzed.

1.4 Sensitive Receptors

In January 2010, Delta conducted a sensitive receptor survey, identifying sensitive receptors within a one-half mile radius of the site. The survey entailed contacting the Department of Water Resources (DWR) to obtain a well search report. Delta used this report to identify all wells within a one-half mile radius of the site, including domestic, municipal, and irrigation wells. No domestic, municipal, or agricultural wells were located within a one-half mile radius of the site.

Additional sensitive receptors located within a one-half mile radius of the site include four schools and two child day care centers. The nearest body of surface water located is the San Francisco Bay, which is approximately one-half mile to the west of the site. Complete details of this survey are presented in Delta's *Sensitive Receptor Survey*, dated January 18, 2010.

2.0 SUBSURFACE INVESTIGATION

From January 7th to January 22nd, 2011, Cascade Drilling, LP, under the supervision of Antea Group installed six monitoring wells at the site (MW-1A through MW-3B).

2.1 Pre Field Activities

Prior to field activities, Antea Group produced a Site Health and Safety Plan, which was reviewed daily by field personnel. Prior to drilling, Antea Group marked the proposed soil boring location and contacted Underground Service Alert (USA ticket number 350411) to request the locating and marking of all underground utilities at, or adjacent to, the proposed boring location. Antea Group also employed a private utility locator to identify possible private underground utilities in the vicinity of the proposed boring location. Additionally, each boring location was cleared, utilizing air-vacuum equipment (air-knife), to a depth of five feet bgs prior to drilling. The purpose of using

air-knife technology was to ensure that unmarked underground utilities would not be encountered during drilling. Antea Group obtained necessary permits from the Alameda County Public Works Agency (ACPWA) for groundwater monitoring well construction (**Appendix B**).

2.2 Well Installations

Borings for monitoring wells were advanced using a CME-95 drill rig equipped with eight-inch hollow stem augers provided and operated by Cascade Drilling, LP (License C57- 938110). Soil samples were collected continuously in all wells from a depth of 5 feet bgs to the total depth of each boring, using a split spoon sampler with brass soil rings.

The samples were logged by the field geologist, utilizing the Unified Soil Classification System by the American Society for Testing and Materials (ASTM) method D-2487, dated May 2000. A photo-ionization detector (PID) was used to measure concentrations of volatile organic compounds in soil samples collected from the boreholes.

To obtain a PID reading, a soil sample from each sampling interval was placed in a sealed plastic bag. After approximately five minutes, the PID probe was inserted into the plastic bag and soil gas allowed to pass through the PID until readings stabilized. The resulting concentration reading was recorded in the geologist's field log. The Soil Boring Log with PID readings is presented as **Appendix C**. Selected soil samples were capped with Teflon® and plastic end caps, then immediately placed on ice. The samples were then logged on to chains-of-custody forms, and submitted to BC Laboratories in Bakersfield, California for analysis.

wells were constructed of 2-inch diameter PVC casing and manufactured 0.010-inch well screen. Due to the abundant fine-grained soils (clays and silts) typically encountered beneath the site, this smaller slot size was selected for the screened interval. Wells MW-1A and MW-2A were screened from 5 to 10 feet bgs, MW-3A was screened from 9.5 to 3.5 feet bgs, MW-1B was screened from 17 to 22 feet, MW-2B was screened from 20 to 25 feet bgs, and MW-3B was screened from 19 to 24 feet bgs. In the shallow A-zone wells, the annular space around the well screen was backfilled with 2/12 sand to 6-inches above the top of the screen and a 6-inch thick hydrated bentonite layer was placed above the sand pack followed by a cement grout to the ground surface. In deep wells, the annular space around the well screen was backfilled with 2/12 sand to 12-inches above the top of screen and a two foot hydrated bentonite layer was placed above the sand pack followed by cement grout to ground surface. Well construction diagrams are shown on the boring logs provided in **Appendix C.**

2.2.1 Lithology Encountered During Drilling

Borings for wells encountered a mix of clayey sands, silts and clays, with thin layers of high permeability sands. Borings for well cluster MW-1 encountered coarse grained deposits consisting of clayey sands and poorly graded sands to a depth of approximately 8.5 to 10 feet, and primarily clay to 23 feet, with a two foot layer of well graded sand with clay from approximately 19 to 21 feet, where the deeper, permeable B-zone water-bearing unit is

located. In cluster MW-2, clay and silt was consistently reported to the total depth explored of 26 feet bgs, however in the boring for MW-2A, a 3-inch layer of clayey gravel was reported at 8 feet bgs. In cluster MW-3, primarily clayey sands were encountered to the total depth of 25-feet bgs, with an 8-foot layer of clay extending from 12 to 20 feet bgs, separating the upper and lower groundwater bearing zones.

The lithology encountered during drilling is generally consistent with that reported during the 2009 CPT investigation. The shallow perched groundwater zone appears to be most prominent in the eastern portion of the station near MW-3, and least prominent in the region of MW-2, where the subsurface soils are primarily fine grained. Geologic cross sections A-A' and B-B' are presented in **Figure 3**.

During drilling, nodules of black/brown thick liquid and light non aqueous phase liquid (LNAPL) were noted in soils from all borings to a depth of approximately 15 feet bgs. In addition, saturated root holes were reported in all borings.

2.2.2 Well Development and Survey

The wells were developed on January 21st and 22nd, 2011 by Cascade Drilling under the supervision of Antea Group. Depth to water in the wells ranged from 5.70 feet below top of casing (btoc) in MW-1A to 9.85 feet btoc in MW-3B. During development, the wells dewatered quickly, after approximately three casing volumes were purged. In order to purge 10 full casing volumes from each well, the wells were surged and purged until dry on the 21st, and left to recharge overnight. All wells fully recharged overnight with the exception of MW-2A, which recharged less than one inch. After each well was purged dry, the development rig was moved to another well to allow time for recharge.

Ten casing volumes were purged from each well with the exception of MW-2A, from which only 5 casing volumes were able to be purged. During installation of the well, groundwater was not encountered in the shallow zone in MW-2A, and judging from previous CPT logs, the perched shallow groundwater zone is not prominent in the vicinity of this well.

During purging, groundwater parameters such as pH, electric conductivity, temperature and turbidity were recorded. pH readings in wells MW-2B and MW-3A were abnormally high. In well MW-2B, the initial pH value, recorded after the first gallon purged, was 12.28, but eventually decreased to 8.86, which is generally consistent with measured pH in other wells. pH in MW-3A was recorded at 12.25 at the initiation of purging, but stabilized at 12.03 at the end of purging. The final pH values recorded during well development were generally consistent with those recorded on the day of groundwater sampling. Total depth in MW-2B measured during development was approximately one foot shallower than expected. The reason for the discrepancy in total depth could be due to a variety of reasons including grout or sediment accumulation in the well during installation, inaccuracy of depth measurement during well installation, or, most likely, unintentional lifting of the well casing during installation by

the drilling contractor. In MW-3A, total depth measured during development was at the depth expected from total boring depth and construction details..

An inherent complication when constructing wells to differing depths in close proximity is the potential for grout of the deeper well to temporarily impact the groundwater quality of the shallow well. Antea Group believes that a small amount of Portland cement could have mixed with standing groundwater in the borehole, causing a spike in pH, and that the grout water was removed during development. In the case of MW-3A, the MW-3 well pair is located less than 3 feet apart, and this area of the site has the most prominent shallow water bearing zone. Antea Group believes that material from MW-3B's cement grout column mixed with groundwater in the shallow zone, causing a spike in pH, and that is being detected in groundwater from MW-3A. For these theories to be true, pH values in the wells will need to decline to background levels over the course of several sampling events. Field data sheets from well development are included in **Appendix D**.

On January 21st, 2011 Mid Coast Engineers of Watsonville, California, surveyed the latitude, longitude and elevation of the newly installed wells, as well as the locations of pertinent site features. The survey report is contained in **Appendix E**. The GPS survey data has been uploaded into the State of California GeoTracker database.

2.3 Soil and Groundwater Sampling

Four soil samples were submitted from borings for wells MW-1B and MW-3B, and five soil samples were submitted from MW-2B. Soil samples were selected for analysis based on PID readings, first encountered groundwater, and for vertical delineation. In addition, one composite soil was collected for waste disposal purposes. Soil samples were not submitted from A-zone wells due to proximity to their B-zone counterparts, from which soil samples were submitted. MW-1 wells are 3 feet apart, MW-2 wells are 3 feet and two inches apart, and MW-3 wells are 2 feet and 8 inches apart from edge of boreholes.

On January 26th, 2011, an Antea Group field geologist returned to the site to gauge and sample the wells. Prior to sampling, each well cap was opened for 15 minutes to allow groundwater levels in the wells to equilibrate, then all wells were gauged.

After gauging the wells, each was purged an additional three casing volumes using disposable bailers. During purging, temperature, electric conductivity, total dissolved solids (TDS), dissolved oxygen (DO), pH, oxidation reduction potential (ORP) and turbidity were measured after each purge volume. Field data sheets from the sampling event are contained in **Appendix D**. Following well purging, groundwater samples were collected and decanted into 40-milliliter glass VOA bottles, preserved with hydrochloric acid (HCl), and unpreserved 1-liter amber glass bottles. The bottles were labeled and placed on ice for transportation to the laboratory. Chain of Custody protocol was followed, providing a continuous record of sample possession before analysis.

Soil and groundwater samples were analyzed for a full volatile organic compound (VOC) scan including all fuel oxygenates, lead scavengers, and TPH-G by EPA Test Method 8260B, TPH-D and TPH-MO by EPA Test Method 8015M with silica gel cleanup.

3.0 SOIL AND GROUNDWATER RESULTS

The following sections present results of the recent investigation. Laboratory analytical reports are presented in **Appendix F**. Soil and groundwater concentrations were compared with residential land use ESLs for shallow soil, and groundwater as a potential drinking water resource.

3.1 Hydrologic Conditions

An updated groundwater elevation map is provided in this report as **Figure 4**. Depth to groundwater was measured at the time of sampling on January 26th, 2010. Approximate groundwater flow direction and hydraulic gradient were established based on static groundwater level on the day of groundwater sampling. Depths to water measured in the wells ranged from 4.71 feet below top of casing (btoc) in MW-3A to 9.46 feet btoc in MW-1B. Since groundwater in well MW-2A did not recharge following development, a shallow groundwater flow direction and gradient could not be calculated. B-zone groundwater flow direction was calculated to be 0.108 feet/foot to the south-southeast (**Figure 4**).

The southern flow direction is inconsistent with the typical westward flow reported in the region. Antea Group used the Geotracker website to research flow directions reported by surrounding open environmental cases, and found that westward flow is typical in the region, and likely due to proximity to the San Francisco Bay located less than a half-mile to the west.

Antea Group believes that the flow direction reported from depth to water data on January 26th may be atypical, and could be the result of poor recharge (slow re-equilibration) in the wells. Well MW-2A did not recharge from the date of development to the sampling date, over a period of over 72 hours. Since recharge is so slow beneath the site, it is likely that a more accurate groundwater flow direction and gradient will only be attained during quarterly monitoring event, when wells have been left undisturbed for several weeks prior to gauging.

3.2 Soil Analytical Results

TPH-G was reported in samples from MW-1B, MW-2B and MW-3B at concentrations ranging from 0.36 mg/kg (MW-1B at 12 feet bgs) to a maximum of 460 mg/kg (MW-2B at 5 feet bgs). TPH-G concentrations were above the ESL of 83 mg/kg only in samples from MW-2B in the 3 foot sample (140 mg/kg) and in the 5 foot sample.

TPH-D was reported in samples from MW-1B, MW-2B and MW-3B at concentrations ranging from 2.7 mg/kg (MW-1B at 19 feet bgs) to a maximum of 520 mg/kg (MW-2B at 5 feet bgs). Only samples from MW-2B showed TPH-D concentrations above the ESL of 83 mg/kg —in the 3 foot sample (390 mg/kg) and in the 5 foot sample; however, the laboratory noted that the chromatograms for these results were not typical of diesel.

TPH-MO was only reported in MW-1B at a depth of 5.5 feet (21 mg/kg), in MW-3B at a depth of 6 feet bgs (14 mg/kg), and in COMP ABCD (14 mg/kg). All reported detections of TPH-MO are below the residential ESL of 370 mg/kg (for TPH-residual fuels)..

Benzene was reported only in MW-2B at depths of 5 feet and 7.5 feet bgs at concentrations of 0.40 mg/kg and 0.0081 mg/kg, respectively. Only the 5 foot sample exceeds the ESL of 0.044 mg/kg.

Ethylbenzene and xylenes were reported in MW-2B at a depth of 5 feet at concentrations of 1.5 mg/kg and 0.59 mg/kg, respectively. Both concentrations are below the ESL of 2.3 mg/kg.

MTBE was reported in MW-2B at depths of 7.5 and 12 feet bgs at concentrations of 0.059 mg/kg and 0.0050 mg/kg, respectively. Only the concentration from 7.5 feet bgs exceeds the ESL of 0.023 mg/kg.

N-butylbenzene was reported in four samples from MW-1B and MW-2B at concentrations ranging from 0.21 mg/kg (MW-1B at 5.5 feet bgs) to 0.44 mg/kg (MW-2B at 5 feet bgs). No ESL is available for this analyte.

Sec-butylbenzene was reported in MW-1B at 3 feet bgs and in MW-2B at a depth of 5 feet bgs, at concentrations of 0.093 mg/kg and 0.34 mg/kg, respectively. No ESL is available for this analyte.

Isopropylbenzene was reported in MW-1B at 3 feet bgs and in MW-2B at a depth of 5 feet bgs, at concentrations of 0.10 mg/kg and 0.46 mg/kg, respectively. No ESL is available for this analyte.

P-isopropyltoluene was reported in MW-2B at 7.5 feet and 12 feet bgs at concentrations of 0.41 mg/kg and 0.0054 mg/kg, respectively. No ESL is available for this analyte.

Napthalene was reported in MW-1B at a depth of 3 feet bgs at a concentration of 0.065 mg/kg. This concentration is below the ESL of 1.3 mg/kg.

N-propylbenzene was reported in four samples from MW-1B and MW-2B at concentrations ranging from 0.0055 mg/kg (MW-1B at 12 feet bgs) to a maximum of 0.86 mg/kg (MW-2B at 5 feet bgs). No ESL is available for this analyte.

1,2,4-Trimethylbenzene was reported in MW-2B at 3 and 5 feet bgs at concentrations of 0.52 mg/kg and 2.0 mg/kg, respectively. No ESL is available for this analyte.

1,3,5-Trimethylbenzene was reported in MW-2B at 5 feet bgs at a concentration of 0.65 mg/kg. No ESL is available for this analyte.

Total lead was reported in the composite soil sample (COMP ABCD) at a concentration of 4.9 mg/kg, which is below the ESL of 200 mg/kg.

No other analytes were reported in any soil samples above laboratory reporting limits.

3.3 Groundwater Analytical Results

- TPH-G was reported in MW-1A, MW-2A and MW-3A at concentrations ranging from 960 µg/L in MW-1A to a maximum of 3,100 µg/L in MW-3A. All TPH-G concentrations are above the ESL of 100 µg/L.
- TPH-D was reported in MW-1A, MW-2A, MW-3A and MW-3B at concentrations ranging from 57 µg/L in MW-3B to 1,200 µg/L in MW-2A. Concentrations reported from MW-1A, MW-2A and MW-3A all exceed the ESL of 100 µg/L, however the laboratory noted that the result in MW-2A was atypical of diesel.
- Benzene was reported in MW-1A, MW-2A, MW-2B and MW-3A at concentrations ranging from 0.55 µg/L in MW-2B to 160 µg/L in MW-3A. Concentrations in wells MW-1A, MW-2A and MW-3A are above the ESL of 1.0 µg/L.
- Toluene was reported in MW-2A at a concentration of 2.2 µg/L. This concentration is below the ESL of 40 µg/L.
- Ethylbenzene was reported in MW-1A, MW-2A and MW-3A at concentrations ranging from 1.9 µg/L in MW-1A to 96 µg/L in MW-3A. Only the concentration in MW-3A exceeds the ESL of 30 µg/L.
- Xylenes were reported in MW-1A and MW-2A at concentrations of 1.6 µg/L and 9.0 µg/L, respectively. Neither concentration exceeds the ESL of 20 µg/L.
- MTBE was reported in MW-1 and MW-2 wells at concentrations ranging from 0.66 µg/L in MW-1B to 140 µg/L in MW-2A. Concentrations in MW-1A (50 µg/L) and MW-2A exceed the ESL of 5.0 µg/L.
- TBA was reported in MW-1A and MW-2B at concentrations of 62 µg/L and 1,300 µg/L, respectively. Both concentrations exceed the ESL of 12 µg/L.
- 1,2-Dichloroethane (1,2-DCA) was reported in MW-1B at a concentration of 24 µg/L, which exceeds the ESL of 0.5 µg/L.
- N-butylbenzene was reported in MW-1A and MW-2A at concentrations of 2.2 µg/L and 6.6 µg/L, respectively. No ESL is available for this analyte.

- Sec-butylbenzene was reported in all A-zone wells at concentrations ranging from 1.2 µg/L in MW-1A to 6.2 µg/L in MW-3A. No ESL is available for this analyte.

- Isopropylbenzene was reported in all A-zone wells at concentrations ranging from 4.2 µg/L in MW-1A to 40 µg/L in MW-3A. No ESL is available for this analyte.

- P-isopropyltoluene was reported in all A-zone wells at concentrations ranging from 1.8 µg/L in MW-1A to 9.2 µg/L in MW-3A. No ESL is available for this analyte.

- Napthalene was reported in MW-1A and MW-2A at concentrations of 1.8 µg/L and 17 µg/L, respectively. The sample from MW-2A is equal to the ESL of 17 µg/L.

- P-isopropylbenzene was reported in all A-zone wells at concentrations ranging from 7.3 µg/L in MW-1A to 54 µg/L in MW-3A. No ESL is available for this analyte.

- 1,2,4-Trimethylbenzene was reported in MW-1A and MW-2A at concentrations of 1.0 µg/L and 2.5 µg/L, respectively. No ESL is available for this analyte.

- 1,3,5-Trimethylbenzene was reported in MW-1A and MW-2A at concentrations of 1.2 µg/L and 2.4 µg/L, respectively. No ESL is available for this analyte.

3.4 Quality Assurance/Quality Control (QA/QC)

Antea Group's QA/QC measures included a detailed QA/QC data validation check on the BC Labs Laboratory analytical results for soil and groundwater samples. Antea Group's laboratory data validation checklist and the BC Labs laboratory report are included in **Appendix F**.

Laboratory QA/QC Performed:	Yes (validated by Antea Group)
Laboratory Data Qualifiers:	A01: PQLs and MDLs are raised due to sample dilution. A17: Surrogate not reportable due to sample dilution. A52: Chromatogram not typical of Diesel. A57: Chromatogram not typical of motor oil. S09: The surrogate recovery on the sample for this compound was not within control limits, however whole QC set was within control limits, so data is accepted. A19: Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis. Q02: Matrix spike precision is not within the control limits. Results accepted based on LCS recovery.
Are the data valid for their intended purpose?	Yes, the data are valid

A01 Qualifiers were reported on 8260B analyses for soil samples MW-1Bd3, MW-2Bd3, MW-2Bd5, and 8015M analyses for MW-2Bd3, MW-2Bd5, MW-1Bd5.5, and MW-3Bd6. The qualifier was also noted in the benzene and

MTBE and 8015 analyses for groundwater sample MW-2A, ethanol analysis for the COMP groundwater sample, and 8260 analysis for MW-3A,

- A17 Qualifiers were noted on 8015 surrogates for soil samples MW-2Bd3, MW-2Bd5.
- A52 Qualifiers were noted on TPH-D analyses for soil samples MW-1Bd3, MW-2Bd3, and MW-2Bd5. A52 was also noted for the TPH-D analysis in groundwater sample MW-1A.
- A57 qualifiers were noted on TPH-MO analysis on soil samples MW-2Bd3 and MW-2Bd5.
- S09 qualifiers were noted on the 1,2-Dichloroethane-d4 surrogate for 8260 analysis on soil samples MW-2Bd19.5, MW-3Bd13 and MW-3Bd18.
- A19 qualifiers were noted on the 1,2-Dichloroethane-d4 surrogate for 8260 analysis on soil samples MW-3Bd13 and MW-3Bd18.
- A Q02 qualifier was noted on the MS/MSD 1016633-39 for TPH-D analysis in groundwater samples.

Based on a review of the laboratory's analytical report, including their QA/QC procedures and those implemented by Antea Group, we conclude that the laboratory data obtained during this investigation are valid for their intended purpose.

4.0 WASTE HANDLING

Soil cuttings, decontamination water, well purge water and removed pavement are being temporarily stored onsite in Department of Transportation 55-gallon drums pending transport to a waste disposal facility.

5.0 SUMMARY AND CONCLUSIONS

Antea Group offers the following summary and conclusions.

- Three well clusters were installed at the site, each cluster included one shallow (approximately 10 foot) and one deep (approximately 25 foot) well.
- Shallow groundwater was encountered during drilling only in MW-3A.
- Deep Groundwater was encountered in MW-1 and MW-2 clusters at 19 and 21.5 feet, respectively.
- Site soils consist of clayey sand primarily in the eastern portion of the station, clays and silts in the area of MW-2, and a mixture of clayey sand and clay in the location of MW-1.
- A perched groundwater zone is most prominent in the location of MW-3 and MW-1, and is weak in the location of MW-2.

- Groundwater flow direction in the B-Zone wells was reportedly directed to the south-southeast at a hydraulic gradient of 0.108 feet per foot, which is inconsistent with the regional westward groundwater flow toward the bay. Shallow (A-Zone) groundwater flow direction and gradient was not calculated due to the fact that MW-2A did not recharge after development.
- Elevated pH readings were reported in wells MW-2B and MW-3A. pH in MW-2B eventually reached background levels after development, MW-3A continues to exhibit high pH. This is likely due to grout from MW-3B (located less than three feet away) mixing with shallow perched groundwater in MW-3A.
- Groundwater recharge was slow in all wells, and groundwater did not recharge from the development date to the groundwater sampling date.
- Concentrations of TPH-G, TPH-D, benzene, ethylbenzene, xylenes, MTBE, TBA and 1,2-DCA were reported above ESLs for residential land use in groundwater samples from A-zone wells.
- Concentrations of TPH-G, TPH-D, benzene and MTBE exceeded ESLs for residential land use in soil samples from well MW-2B.
- Soil contamination at the site is vertically delineated. During the current investigation, the only ESL exceedances occurred in soils from MW-2B, to a depth of only 7.5 feet bgs. During the 2009 CPT investigation, no analytes exceeded ESLs below approximately 7 feet bgs. Contamination at the site is believed to be limited to the upper 10 feet of subsurface soils.
- Dissolved phase hydrocarbon concentrations appear to be contained primarily in shallow groundwater. In the current investigation, all analytes exceeding ESLs were contained in A-Zone wells, with the exception of 1,2-DCA in well MW-1B. During the 2009 CPT investigation, only minor ESL exceedances in groundwater were reported in deeper water bearing zones (deeper than the B-zone). These exceedances were primarily for diesel detections in groundwater (CPT-5 and CPT-7) with one deep detection of benzene (1.4 µg/L) in CPT-2; however, groundwater samples from the CPT investigation are grab groundwater samples, typically containing high levels of sediment, which can contribute to concentrations that are biased high.

6.0 RECOMMENDATIONS

Antea Group recommends quarterly monitoring for all newly installed wells for four consecutive quarters to assess groundwater conditions beneath the site. Since MW-2A has very slow recharge, purging the well will not be feasible. Antea Group recommends no-purge sample for MW-2A, and purge-sampling for all other site wells. After a year of monitoring, Antea Group may propose additional investigation as appropriate.

High pH values were reported in MW-2B and MW-3A during development. One possible reason for high pH values (above background values) is a compromised annular seal on the well, which can occur during well installation by the cement grout seal infiltrating the bentonite seal and sand pack; however, Antea Group believes that the cause of the high pH values in the two wells are not a result of damaged annular seals, but may be caused by a small

amount of neat cement that made its way into the well casing during well install, and recommends that the wells be monitored for pH during monitoring events. Antea Group believes that pH values in MW-2B will stay within background levels, and will decline in MW-3A to background levels after multiple sampling (purging) events. Antea Group will continue to monitor the wells closely. If pH values remain high, or in the case of MW-2B, spike to pre-development values that suggests a well seal is defective, well replacement will be discussed decision to replace the wells may be made.

Antea Group further recommends quarterly sampling of the new wells for one hydrologic cycle (four quarterly events). Following the collection of additional data sets, data will be further evaluated to determine the need for additional assessment, if appropriate.

7.0 REMARKS

The recommendations contained in this report represent Antea USA, Inc.'s professional opinions based upon the currently available information and are arrived at in accordance with currently accepted professional standards. This report is based upon a specific scope of work requested by the client. For any reports cited that were not generated by Delta or Antea Group, the data from those reports is used "as is" and is assumed to be accurate. Antea Group does not guarantee the accuracy of this data for the referenced work performed nor the inferences or conclusions stated in these reports. The contract between Antea USA, Inc. and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report were performed. This report is intended only for the use of Antea USA, Inc.'s client and anyone else specifically identified in writing by Antea USA, Inc. as a user of this report. Antea USA, Inc. will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Antea USA, Inc. makes no express or implied warranty as to the contents of this report.

Date: 2/24/11

Nadine Periat
Senior Staff Geologist

Reviewed by:

PROFESSIONAL GEOLOGIST
LIA HOLDEN
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Exp. 4/11
STATE OF CALIFORNIA

Date: 2/24/11

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Tables

Table 1
Summary of Soil Analytical Data
Chevron Branded Service Station No. 3737
1400 Powell Street
Emeryville California

Sample ID	Date	Time	Depth	TPH-G (mg/kg)	TPH-D (mg/kg)	TPH-MO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	Ethanol (mg/kg)	ETBE (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	n-Butylbenzene (mg/kg)	sec-Butylbenzene (mg/kg)	Isopropylbenzene (mg/kg)	p-Isopropyltoluene (mg/kg)	Napthalene (mg/kg)	n-Propylbenzene (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	1,3,5 Trimethylbenzene (mg/kg)	Total Lead (mg/kg)
MW-1Bd3	1/7/2011	4:30	3	**29**	**4.3** A52	<10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.50	<0.050	<10	<0.050	<0.050	<0.050	**0.27**	**0.093**	**0.10**	<0.050	**0.065**	**0.28**	<0.050	<0.050	NA
MW-1Bd5.5	1/15/2011	12:08	5.5	**37**	**7.0**	**21**	<0.12	<0.12	<0.12	<0.25	<0.12	<0.12	<1.2	<0.12	<25	<0.12	<0.12	<0.12	**0.21**	<0.12	<0.12	<0.12	<0.12	**0.26**	<0.12	<0.12	NA
MW-1Bd12	1/15/2011	12:18	12	**0.36**	**4.1**	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0055**	<0.0050	<0.0050	NA
MW-1Bd19	1/15/2011	12:34	19	<0.20	**2.7**	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA
MW-2Bd3	1/8/2011	8:11	3	**140**	**390** A52	<1000 A57	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<2.5	<0.25	<50	<0.25	<0.25	<0.25	**0.25**	<0.25	<0.25	<0.25	<0.25	<0.25	**0.52**	<0.25	**NA**
MW-2Bd5	1/8/2011	8:30	5	**460**	**520** A52	<1000 A57	**0.40**	<0.25	**1.5**	**0.59**	<0.25	<0.25	<2.5	<0.25	<50	<0.25	<0.25	<0.25	**0.44**	**0.34**	**0.46**	**0.41**	<0.25	**0.86**	**2.0**	**0.65**	**NA**
MW-2Bd7.5	1/14/2011	11:34	7.5	**2.3**	**8.8**	<10	**0.0081**	<0.0050	<0.0050	<0.010	**0.059**	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**0.0054**	<0.0050	<0.0050	<0.0050	<0.0050	NA
MW-2Bd12	1/14/2011	11:45	12	<0.20	**3.1**	<10	<0.0050	<0.0050	<0.0050	<0.010	**0.0050**	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA
MW-2Bd19.5	1/14/2011	12:21	19.5	<0.20	**2.9**	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA
MW-3Bd3	1/7/2011	1:25	3	**1.5**	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA
MW-3Bd6	1/15/2011	7:31	6	**76**	**5.8**	**14**	<0.25	<0.25	<0.25	<0.50	<0.25	<0.25	<2.5	<0.25	<50	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA
MW-3Bd13	1/15/2011	7:54	13	**0.48**	**2.9**	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA
MW-3Bd18	1/15/2011	8:41	18	<0.20	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	NA
COMP ABCD	1/15/2011	2:30	NA	**0.75**	**10**	**14**	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.050	<0.0050	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	**4.9**
Residential ESL (shallow soil)	--	--	<3m	83	83	370	0.044	2.9	2.3	2.3	0.023	0.075	NA	NA	NA	NA	0.00033	0.0045	NA	NA	NA	NA	1.3	NA	NA	NA	200

Notes:

mg/kg	milligrams per kilogram
TPH-D	Total Petroleum Hydrocarbons as Diesel
TPH-MO	Total Petroleum Hydrocarbons as Motor Oil
TPH-G	Total Petroleum Hydrocarbons as Gasoline
MTBE	methyl tertiary butyl ether
TBA	tertiary buty alcohol
ETBE	ethyl tertiary butyl ether
DIPE	di-isopropyl ether
TAME	tertiary amyl ethyl ether
EDB	ethylene dibromide
1,2-DCA	1,2-dichloroethane
ESL	Regional Water Quality Control Board - San Francisco Region Environmental Screening Level
A52	Data Qualifier: Chromatogram not typical of diesel.
A57	Data Qualifier: Chromatogram not typical of motor oil.

ESL based on residential land use, shallow soil, and groundwater as a potential drinking resource.
TPH-D and TPH-MO analysis by Environmental Protection Agency (EPA) Test Method 8015 with Silica Gel Cleanup
All other analyses by EPA Method 8260B.
Samples were analyzed for a full VOC Scan by EPA Method 8260B with oxygenates and lead scavengers. All Oxygenates and lead scavenger data are summarized, only VOCs with detections are presented in table.
Depth measured in feet below ground surface
Bold concentrations indicate detections over laboratory reporting limit
Data qualifiers regarding sample dilution, surrogate recovery, or quality control are not presented in table. Please refer to laboratory reports for full explanation of qualifiers.

Table 2
Summary of Current Groundwater Analytical Data
Chevron Branded Service Station No. 3737
1400 Powell Street
Emeryville, California

Sample ID	Date	Time	Depth to Water	TOC Elevation	Groundwater Elevation	TPH-G (µg/L)	TPH-D (µg/L)	TPH-MO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	DIPE (µg/L)	Ethanol (µg/L)	ETBE (µg/L)	EDB (µg/L)	1,2-DCA (µg/L)	n-Butyl-benzene (µg/L)	sec-Butyl-benzene (µg/L)	Chloroform (µg/L)	Isopropyl-benzene (µg/L)	p-Isopropyl-toluene (µg/L)	Napthalene (µg/L)	n-Propyl-benzene (µg/L)	1,2,4-Trimethyl-benzene (µg/L)	1,3,5 Trimethyl-benzene (µg/L)
MW-1A	1/26/2011	2:20	5.8	18.743	12.94	**960**	**450** A52	<200	**8.4**	<0.50	**1.9**	**1.6**	**50**	**1.4**	**62**	<0.50	<250	<0.50	<0.50	<0.50	**2.2**	**1.2**	<0.50	**4.2**	**1.8**	**1.8**	**7.3**	**1.0**	**1.2**
MW-1B	1/26/2011	1:20	9.46	18.884	9.42	<50	<50	<200	<0.50	<0.50	<0.50	<1.0	**0.66**	<0.50	<10	<0.50	<250	<0.50	<0.50	**24**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-2A	1/26/2011	10:33	8.02	18.925	10.91	**2,500**	**1,200**	<1000	**100**	**2.2**	**28**	**9.0**	**140**	<0.50	**1,300**	<0.50	<250	<0.50	<0.50	<0.50	**6.6**	**3.9**	**2.5**	**14**	**7.6**	**17**	**23**	**2.5**	**2.4**
MW-2B	1/26/2011	2:10	5.51	19.099	13.59	<50	<50	<200	**0.55**	<0.50	<0.50	<1.0	**3.4**	<0.50	<10	<0.50	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW-3A	1/26/2011	2:30	4.75	18.616	13.87	**3,100**	**830**	<200	**160**	<5.0	**96**	<10	<5.0	<5.0	<100	<5.0	<2500	<5.0	<5.0	<5.0	<5.0	**6.2**	<5.0	**40**	**9.2**	<5.0	**54**	<5.0	<5.0
MW-3B	1/26/2011	1:35	7.33	18.571	11.24	<50	**57**	<200	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<10	<0.50	<250	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
COMP	1/26/2011	1:15	NA	NA	NA	**1,200**	**350**	<200	**13**	**0.57**	**5.4**	**1.5**	**6.0**	<0.50	**92**	<0.50	**15,000**	<0.50	<0.50	**3.6**	**5.3**	**2.3**	<0.50	**4.0**	**2.9**	**5.6**	**8.4**	**0.60**	**0.52**
ESL	--	--	--	--	--	100	100	100	1	40	30	20	5	NA	12	NA	NA	NA	0.05	0.5	NA	NA	70	NA	NA	17	NA	NA	NA

Notes:

Depth to water measured in feet below top of casing
Groundwtaer elevation measured in feet above mean sea level
Bold concentrations indicate detection above laboratory reporting limit

(µg/L)	micrograms per liter
TPH-D	Total Petroleum Hydrocarbons as Diesel
TPH-MO	Total Petroleum Hydrocarbons as Motor Oil
TPH-G	Total Petroleum Hydrocarbons as Gasoline
MTBE	methyl tertiary butyl ether
TBA	tertiary buty alcohol
ETBE	ethyl tertiary butyl ether
DIPE	di-isopropyl ether
TAME	tertiary amyl ethyl ether
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ESL	Regional Water Quality Control Board - San Francisco Region Environmental Screening Level
A52	Data Qualifier: Chromatogram not typical of diesel

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Data qualifiers regarding sample dilution, surrogate recovery, or quality control are not presented in table. Please refer to laboratory reports for full explanation of qualifiers.

Figures

North

0 900 1800 FT

SCALE

SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND WEST (1996) QUADRANGLE

FIGURE 1

SITE LOCATION MAP

FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO. C1037-3705-1	DRAWN BY KYM 2/22/11
FILE NO. 3737-SiteLocator	PREPARED BY NaP
REVISION NO.	REVIEWED BY

antea group

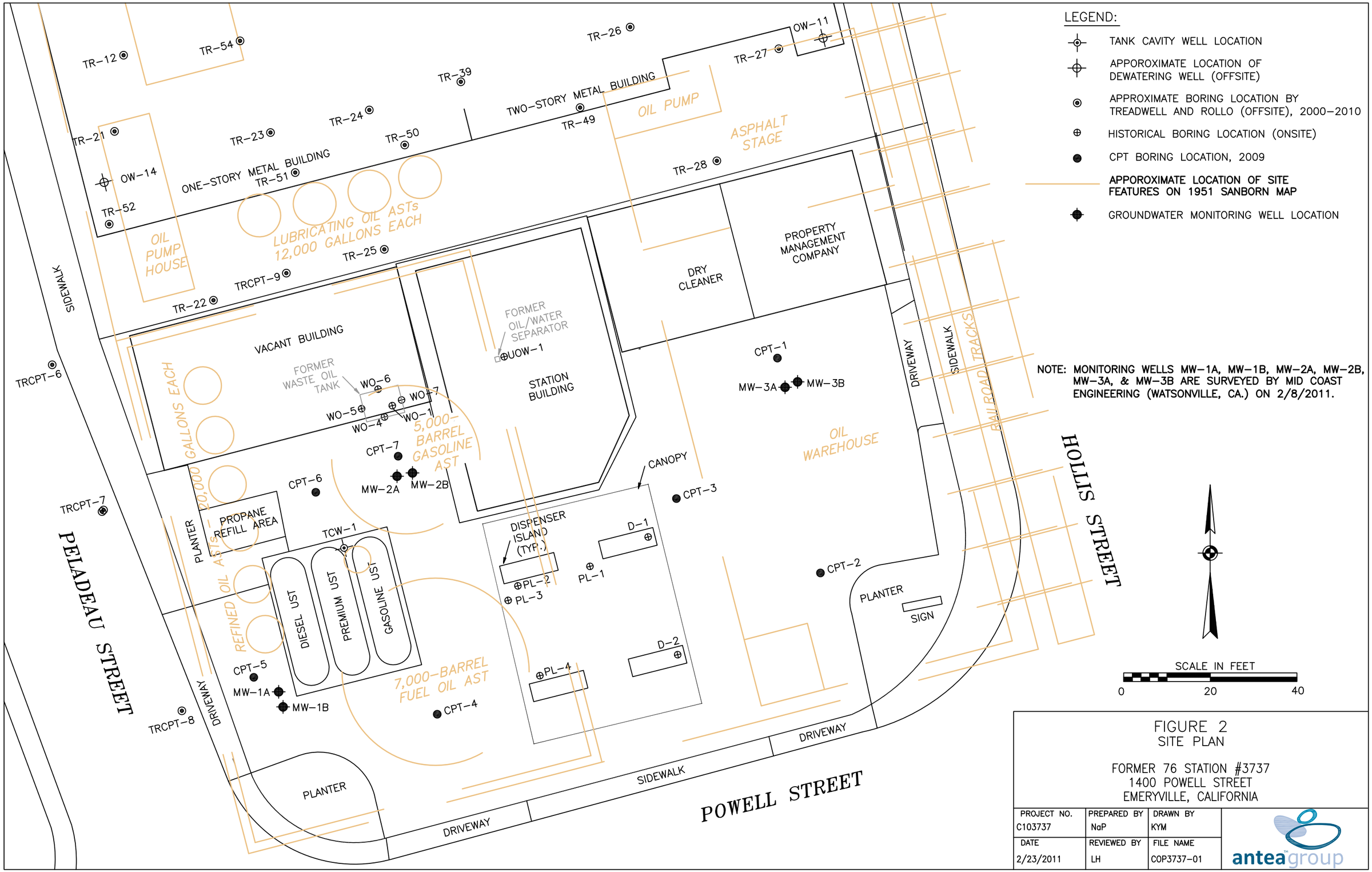
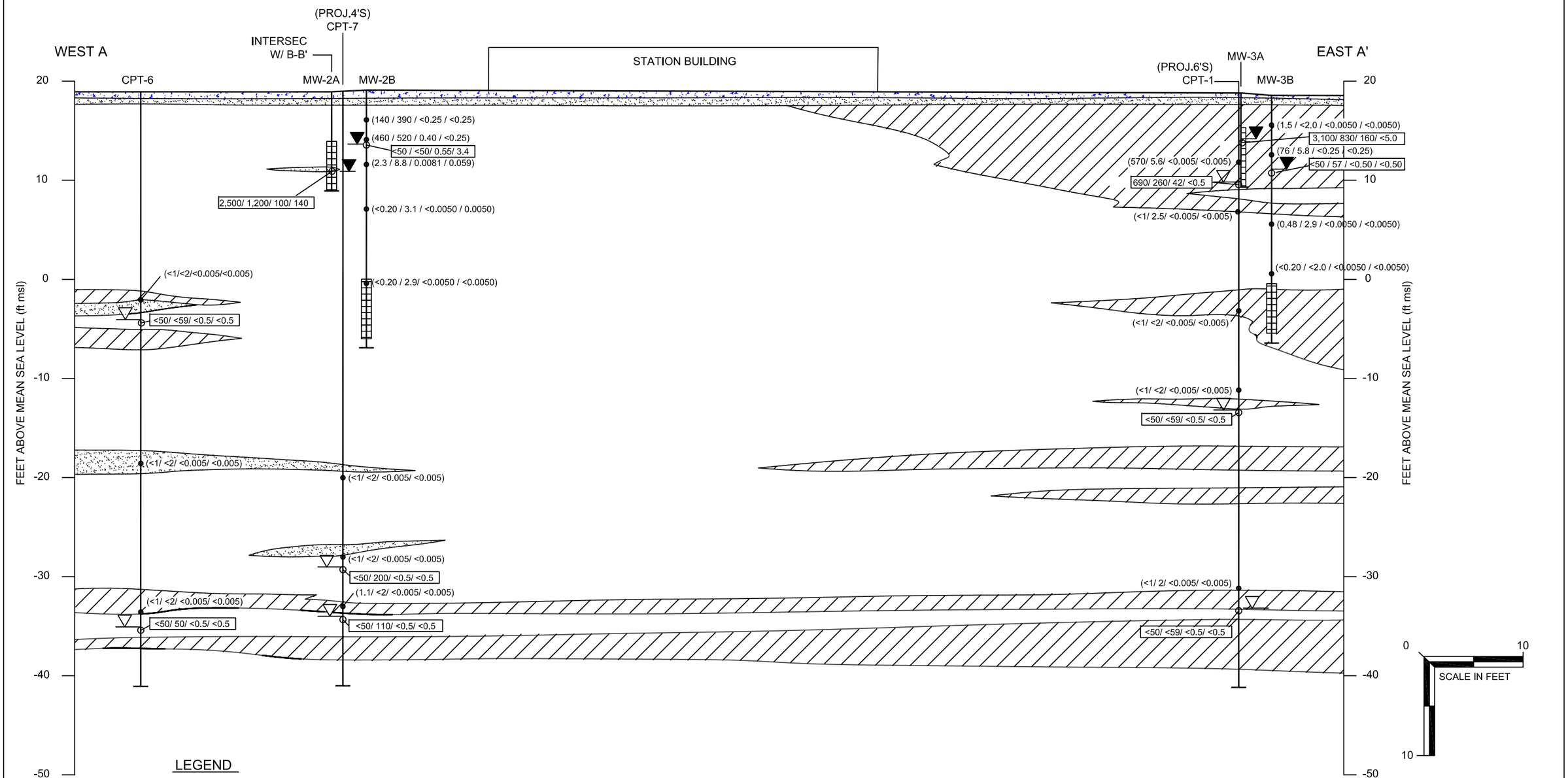


FIGURE 2
SITE PLAN

FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C103737	NaP	KYM
DATE	REVIEWED BY	FILE NAME
2/23/2011	LH	COP3737–01

antea group



LEGEND

MW-2B — MONITORING WELL / BORING NAME

WELL CASING / EXPLORATORY BORING

(140/390/<0.25/<0.25) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: GRO, DRO, BENZENE, MTBE (mg/kg)

DEPTH TO FIRST ENCOUNTERED GROUNDWATER

DEPTH TO STATIC GROUNDWATER

<50/<50/<0.50/3.4 — GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (µg/L)

WELL SCREEN

APPROXIMATE STRATIGRAPHIC BOUNDARY

PAVEMENT

HIGH PERMEABILITY (SANDS AND GRAVELS)

MEDIUM PERMEABILITY (SAND, GRAVEL WITH CLAY, SILT)

LOW PERMEABILITY (CLAY, SILT)

NOTES:

1) <50=BELOW THE LABORATORY INDICATED REPORTING LIMIT
TPH-G=TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
MTBE=METHYL TERTIARY BUTYL ETHER
mg/kg=MILLIGRAMS PER KILOGRAM
µg/L=MICROGRAMS PER LITER

2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.

3) GROUNDWATER SAMPLES FOR SOIL BORINGS TAKEN ON DRILLING DATE.

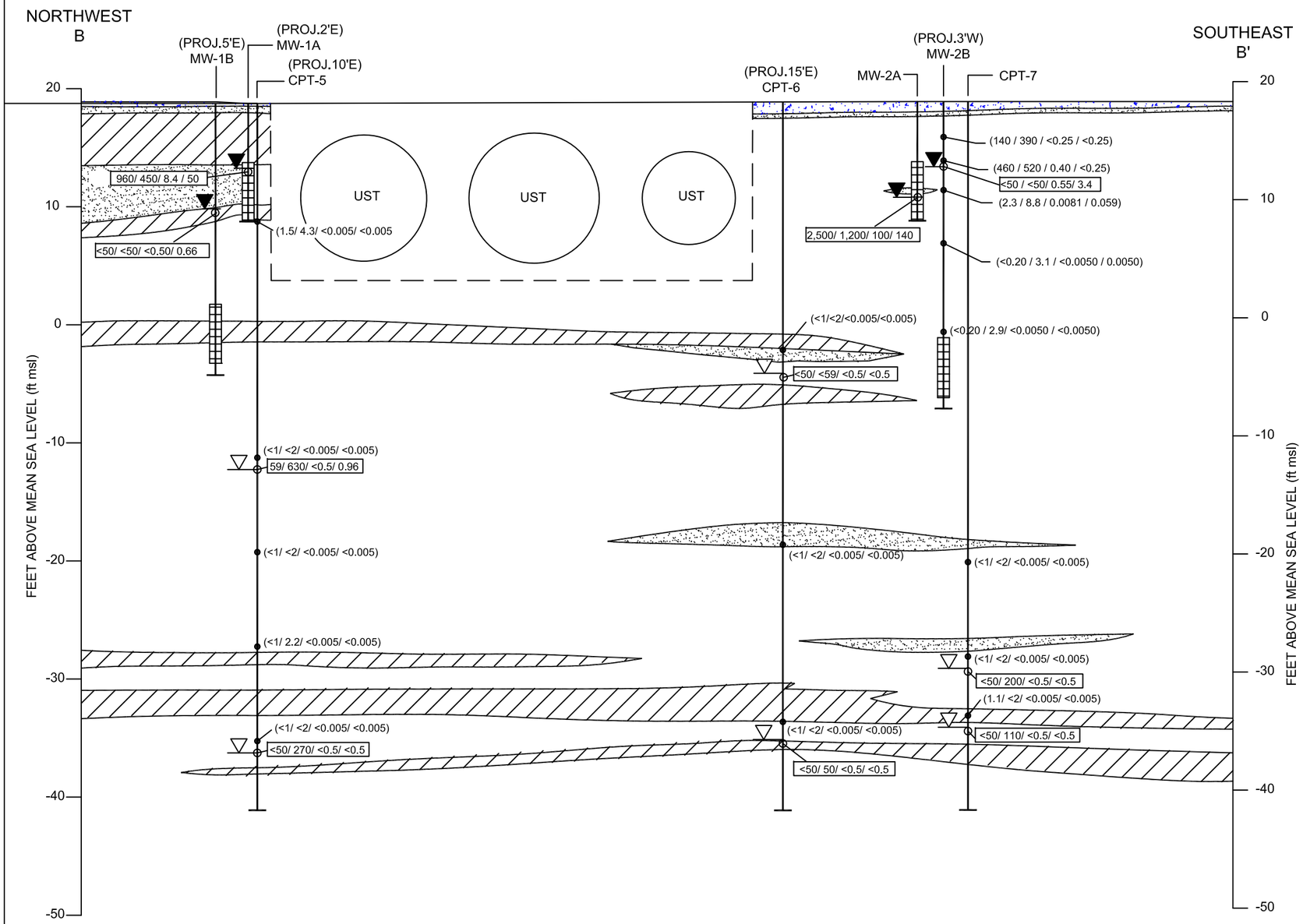
4) CPT LOGS BASED ON SOIL BEHAVIOR, NOT SOIL TYPE, SOIL TYPE IN CPT LOGS IS INTERPRETATED.

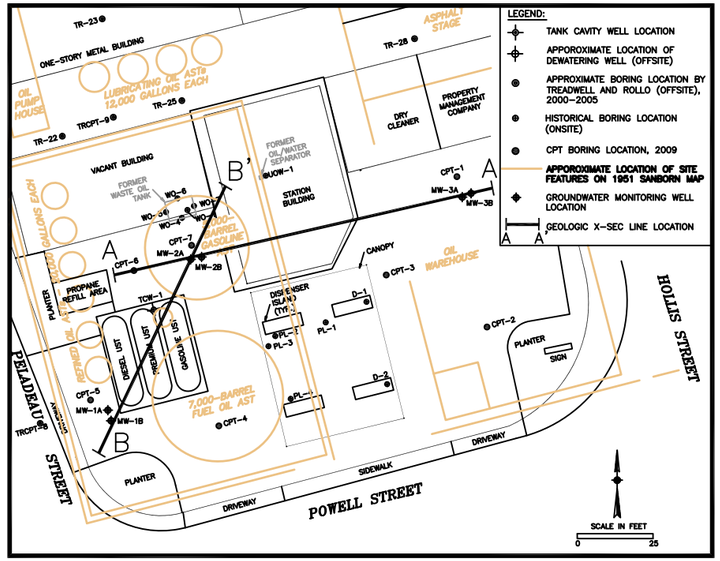
FIGURE 3a
GEOLOGIC CROSS SECTION A–A'

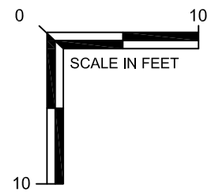
FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C103737	NaP	KYM
DATE	REVIEWED BY	FILE NAME
2/23/11	LH	COP3737-01

antea group







LEGEND

- MW-2B — MONITORING WELL / BORING NAME
- WELL CASING / EXPLORATORY BORING
- (140/390/<0.25/<0.25) — SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: GRO, DRO, BENZENE, MTBE (mg/kg)
- DEPTH TO FIRST ENCOUNTERED GROUNDWATER
- DEPTH TO STATIC GROUNDWATER
- <50/<50/<0.50/3.4 — GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: TPH-G, BENZENE, MTBE (µg/L)
- WELL SCREEN
- APPROXIMATE STRATIGRAPHIC BOUNDARY
- PAVEMENT
- HIGH PERMEABILITY (SANDS AND GRAVELS)
- MEDIUM PERMEABILITY (SAND, GRAVEL WITH CLAY, SILT)
- LOW PERMEABILITY (CLAY, SILT)

NOTES:

1) <50=BELOW THE LABORATORY INDICATED REPORTING LIMIT
TPH-G=TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
MTBE=METHYL TERTIARY BUTYL ETHER
mg/kg=MILLIGRAMS PER KILOGRAM
µg/L=MICROGRAMS PER LITER
2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
3) GROUNDWATER SAMPLES FOR SOIL BORINGS TAKEN ON DRILLING DATE.
4) CPT LOGS BASED ON SOIL BEHAVIOR, NOT SOIL TYPE, SOIL TUPE IN CPT LOGS IS INTERPRETATED.

FIGURE 3b
GEOLOGIC CROSS SECTION B–B'

FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C103737	NqP	KYM
DATE	REVIEWED BY	FILE NAME
2/23/11	LH	COP3737–01

antea group

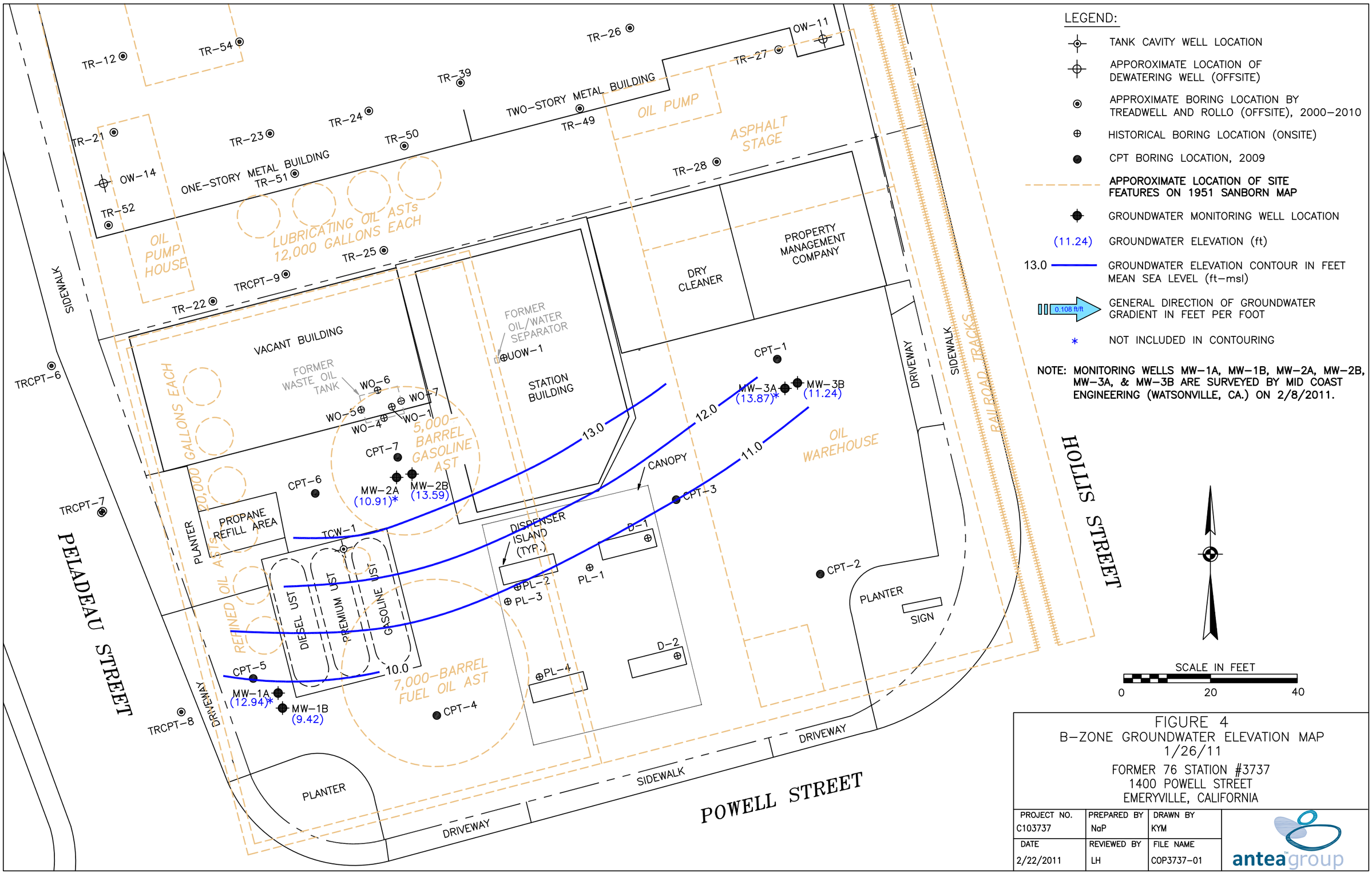


FIGURE 4
B–ZONE GROUNDWATER ELEVATION MAP
1/26/11
FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO.	PREPARED BY	DRAWN BY
C103737	NaP	KYM
DATE	REVIEWED BY	FILE NAME
2/22/2011	LH	COP3737–01

antea group

Appendix A

Agency Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH DEPARTMENT
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

December 2, 2010

Mr. Bill Borgh
ConocoPhillips
76 Broadway
Sacramento, CA 95818
(sent via electronic mail to:
Bill.Borgh@conocophillips.com)

Mr. Najmeddin Revan
Emeryville Chevron
1400 Powell Street
Emeryville, CA 94608

Subject: Modified Work Plan Approval; Fuel Leak Case No. RO0000067 and Geotracker Global ID T0601745736, Tosco 76 #3737 / Chevron, 1400 Powell Street, Emeryville, CA 94608

Dear Mr. Borgh, Ms. Kambin, and Mr. Revan:

Alameda County Environmental Health (ACEH) staff has reviewed the case file for the above-referenced site, including the *Work Plan for Soil and Groundwater Investigation,* dated May 19, 2010. The work plan was prepared and submitted on your behalf by Delta Environmental (Delta). ACEH has also reviewed the *Monitoring Well Installation Work Plan,* dated July 12, 2010 submitted by Treadwell & Rollo, Inc for the adjacent Emeryville Industrial Court redevelopment site. Both the Tosco 76 / Chevron service station on the south and Emeryville Industrial Court redevelopment on the north currently occupy a formerly larger parcel that previously contained a Unocal bulk oil facility.

ACEH requests modifications to the work plan prior to implementation. Provided the technical comments below are incorporated in to the field investigation a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or technical comments below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acgov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Work Plan Modifications** – There are several areas of the work plan that require modification or clarification:

    a. **Depth of Investigation** - Three three-well clusters (MW-1, MW-2, and MW-3) were proposed to be installed at the site. These wells were proposed to be installed to enable the monitoring of four identified water-bearing zones (A, B, C, and D) in several configurations. A fourth well (MW-4) was also proposed for installation at a single depth (A zone). ACEH is in general agreement with the intent of the work; however, judges it appropriate at this stage to limit the depth of investigation to the A and B water-bearing zones pending receipt of further data. This is based on limited detection of contaminants in soil and groundwater in deeper sediments and groundwater. ACEH also judges it appropriate at this stage to combine well locations MW-3 and MW-4 into a single well cluster in the vicinity of proposed well MW-4. This is based on a review of available analytical data at the subject site and at the adjacent site to the north where the depth of impacts appear to be mostly shallow.

b. **Well Screen Intervals –** The work plan specified a series of well screen intervals for the four identified water-bearing zones. The A zone was proposed to be screened from approximately 5 to 15 feet below grade surface (bgs), with deeper zones slated for shorter screen intervals. ACEH requires shorter screen intervals in order to collect more representative groundwater samples, generally with no more than a 5 foot sand interval. ACEH requests an effort to minimize the screen length at each well location to the extent possible, with well screens no longer than 5 feet. If longer screen intervals are judged appropriate single water-bearing zone well clusters or CMT multilevel wells may be appropriate. Please communicate the preferred changed interval or well installation technology with ACEH in an email or other brief communication prior to work initiation.

c. **Fuel Oxygenate Analysis –** In an effort to prevent miscommunications, please include analysis for all fuel oxygenates and lead scavengers in the planned VOC analytical request by EPA Method 8260B for soil and groundwater samples.

2. **Coordinated Groundwater Monitoring –** While currently premature, ACEH requests that Wareham Development and ConocoPhillips coordinate future groundwater monitoring events of the two sites, and to continue to share data since both properties overlie the former Unocal bulk fuel plant and share a common source area.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Mark Detterman), according to the following schedule:

- **January 31, 2011** – Soil and Groundwater Investigation

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,

Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, c=US
Date: 2010.12.02 15:13:34 -08'00'

Mark E. Detterman, PG, CEG
Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: Lia Holden, Delta Environmental, Inc, 312 Piercy Road, San Jose, CA 95138
(sent via electronic mail to: LHolden@deltaenv.com)

Geoffrey Sears, Wareham Development Corp, 1120 Nye St. Suite #400, San Rafael, CA 94901
(sent via electronic mail to: gsears@warehamproperties.com)

Matt Hall, Treadwell & Rollo, Inc., 555 Montgomery Street, Suite 1300, San Francisco, CA 94111
(sent via electronic mail to: mbhall@treadwellrollo.com)

Donna Drogos, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
File, GeoTracker

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**REVISION DATE:** July 20, 2010
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

From: Detterman, Mark, Env. Health
To: Lia Holden; Grayson, Terry L (DXT Services);
cc: Geoff Sears; Phil Smith; Matt Hall;
Subject: RE: Work Plan Extension: RO 67: 1400 Powell Street
Date: Friday, April 02, 2010 2:39:28 PM

I have been in communication with Matt Hall of Treadwell & Rollo in regards to the implementation of field work at the Former Emeryville Industrial Court site (RO2621) at 5885 Hollis St. Because it has taken longer than expected to implement the field work to obtain environmental data on which ConocoPhillips and Delta Environmental will in part be basing a work plan on, I thought it appropriate to extend the work plan submittal deadline by 30 days. This would allow data sharing as previously requested by ACEH, and incorporation of the data in the work plan for RO67 (Tosco 76 #3737 / Chevron at 1400 Powell St). The revised deadline will be May 31, 2010. Please let me know if there are questions.

Mark Detterman
Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Lia Holden [mailto:LHolden@deltaenv.com]
Sent: Monday, January 11, 2010 12:00 PM
To: Detterman, Mark, Env. Health; Grayson, Terry L (DXT Services)
Cc: Geoff Sears; Phil Smith; Matt Hall
Subject: RE: Work Plan Extension: RO 67: 1400 Powell Street

Thank you Mr. Detterman. We will await the results of the neighboring investigation, and submit our work plan on or before April 30, 2010.

Lia Holden, PG | Geologist - Project Manager | Global Oil & Gas Business Group
Delta Consultants, an Oranjewoud N.V. Company
Direct (408) 826-1863 | Fax (408) 225 8506 | Mobile (408) 410-9781 | USA Toll Free 800 477 7411
lholden@deltaenv.com | www.deltaenv.com

THE TRUSTED PARTNER FOR MAXIMIZED ASSET VALUE

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]
Sent: Monday, January 11, 2010 10:44 AM
To: Grayson, Terry L (DXT Services); Lia Holden
Cc: Geoff Sears; Phil Smith; 'Matt Hall'
Subject: Work Plan Extension: RO 67: 1400 Powell Street

Hi all,

I wanted to provide the official Work Plan submittal extension that has been under discussion for the referenced site. The extension will allow ConocoPhillips / Delta to utilize the data generated at the adjacent site (RO 2621; Emeryville Industrial Court) as requested in recent directive letters. Both properties overlie the former Unocal bulk fuel plant and share a common source area; the data will help further progress site investigations and allow better placing of future site investigation bores. As a consequence ACEH extends the schedule for the submittal of the Work Plan for Soil and Water Investigation by 90 days to April 30, 2010.
Should you have questions, please contact me.
Best,

Mark Detterman
Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
ALEX BRISCOE, Acting Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

November 18, 2009

Mr. Terry Grayson
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Mr. Najmeddin Revan
Emeryville Chevron
1400 Powell Street
Emeryville, CA 94608

Subject: Request for Work Plan; Fuel Leak Case No. RO0000067 and Geotracker Global ID T0601745736, Tosco 76 #3737, 1400 Powell Street, Emeryville, CA 94608

Dear Mr. Grayson and Mr. Revan:

I have recently joined Alameda County Environmental Health (ACEH) and am now the case worker for Emeryville sites. Please direct all correspondence to my attention. ACEH staff has reviewed the case file for the referenced site including the *Report of CPT Delineation of Fuel Hydrocarbon Affected Soil and Groundwater,* dated August 18, 2009. Thank you for submitting the report. We request that you address the following technical comments, and send us the technical documents by the due date requested below.

TECHNICAL COMMENTS

1. **Soil and Groundwater Investigation Work Plan** - ACEH is in general agreement with the recommendation to install three wells at the site; however, ACEH does not concur with the proposal to install nested wells, but prefers clustered wells, multi-level wells, or etc., due to the potential of cross contamination.

2. **Soil and Water Sample Analysis** – In the November 5, 2005 and May 8, 2009 directive letters, ACEH requested analysis of samples from the area of the dry cleaners and the former bulk fuel plant for HVOCs and motor oil. The case cannot progress toward closure without all of the releases or potential sources being characterized. Please include soil and water analysis for the full VOC analysis by EPA Method 8260 and motor oil by EPA Method 8015 in the borings located near these features.

3. **Data Sharing** – As directed in the November 13, 2008 meeting, ACEH requested that ConocoPhillips and Wareham Development share data for their sites since both properties overlie the former Unocal bulk fuel plant and share a common source area. Please also send Wareham Development and their consultant a copy of the report requested below.

TECHNICAL REPORT REQUEST

Please conduct the proposed work and submit technical reports to Alameda County Environmental Health (Attention: Mark Detterman), according to the following schedule:

- **January 30, 2010** – Work Plan for Soil and Water Investigation

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

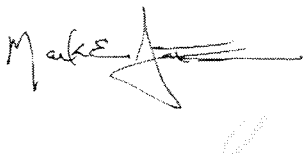
The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,



Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, c=US
Reason: I am the author of this document
Date: 2009.11.18 16:05:18 -08'00'

Mark E. Detterman, PG, CEG
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: John Reay, Delta Environmental Consultants, 11050 White Rock Rd., Suite 110 Rancho Cordova, CA 95670, (sent via electronic mail to JReay@deltaenv.com)
Geoffrey Sears (sent via electronic mail to gsears@warehamproperties.com)
Glenn Leong (sent via electronic mail to glenn@leongenv.com)
Donna Drogos, (sent via electronic mail to donna.drogos@acgov.org)
Mark Detterman (sent via electronic mail to mark.detterman@acgov.org)
GeoTracker, File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: March 27, 2009
	PREVIOUS REVISIONS: December 16, 2005, October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection**. (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         Or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

Appendix B

Well Installation Permits

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 12/23/2010 By vickyh1

Permit Numbers: W2010-1017 to W2010-1022
Permits Valid from 01/14/2011 to 01/16/2011

Application Id: 1292971530433 **City of Project Site:** Emeryville
Site Location: 1400 Powell St, Emeryville, CA
Project Start Date: 01/14/2011 **Completion Date:** 01/16/2011
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

Applicant: Delta - Nadine Periat
312 Piercy Rd, San Jose, CA 95138 **Phone:** 408-826-1879

Property Owner: Najmeddin Ravan
39 Mira Ln, Orinda, CA 94563 **Phone:** --

Client: Conoco Phillips
76 Broadway, Sacramento, CA 95818 **Phone:** --

Total Due: $2382.00
Receipt Number: WR2010-0434 **Total Amount Paid:** $2382.00
Payer Name : Delta Paid By: CHECK **PAID IN FULL**

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 6 Wells
Driller: Cascade - Lic #: 938110 - Method: hstem **Work Total: $2382.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-1017	12/23/2010	04/14/2011	MW-1A	8.00 in.	2.00 in.	5.00 ft	15.00 ft
W2010-1018	12/23/2010	04/14/2011	MW-1B	8.00 in.	2.00 in.	16.00 ft	24.00 ft
W2010-1019	12/23/2010	04/14/2011	MW-2A	8.00 in.	2.00 in.	5.00 ft	15.00 ft
W2010-1020	12/23/2010	04/14/2011	MW-2B	8.00 in.	2.00 in.	16.00 ft	24.00 ft
W2010-1021	12/23/2010	04/14/2011	MW-3A	8.00 in.	2.00 in.	5.00 ft	15.00 ft
W2010-1022	12/23/2010	04/14/2011	MW-3B	8.00 in.	2.00 in.	16.00 ft	24.00 ft

Specific Work Permit Conditions

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

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

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required

for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

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

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

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

7. Minimum surface seal thickness is two inches of cement grout placed by tremie

8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

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

Appendix C

Boring Logs

antea group

Project No: C103737	Client: ConocoPhillips	Well/ Boring ID: MW-1A	
Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA	Page 1 of 1	
Driller: Cascade Drilling, LP	Date Drilled: 1/15/2011	Location Map	
Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches	See Attached Site Map	
Sampling Method: Split Spoon	Hole Depth: 10 feet		
Casing Type: Sch 40 PVC	Well Diameter:2-inches		
Slot Size: 0.010-inch	Well Depth: 10 feet		
Gravel Pack: 2/12 Sand	Casing Stickup: NA		
Elevation	Northing	Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Asphalt
					1			GC-GP	**Sandy Gravel with Clay**, gray, 50% fine gravel, 35% well graded sand, 15% fines (base rock).
					2			SC	**Clayey Sand**, brown-black, 10% concrete debris (5" diameter), 50% medium sand, 40% fines, low plasticity.
		moist		Air Knife to 5 Feet	3				
					4				
					5				As above
	▼	moist	1015	7 8 9	6			SP	**Poorly Graded Sand**, blue, <5% fines, fine sand, medium dense.
		moist	89	8 8 9	7				As above
					8				
		moist	4.6	7 8 8	9			SC	**Clayey Sand,** blue with red oxidation,10% fine gravel, 70% medium sand, 20% fines, roots with black liquid
					10				medium dense

Bottom of Boring at 10 feet Below Grade

Notes:

Groundwater not encountered during drilling.

PROFESSIONAL GEOLOGIST
LIA HOLDEN
No. 8584
Exp. 4/11
STATE OF CALIFORNIA

Legend:

- Portland Cement
- Bentonite Seal
- 2/12 Sand Pack
- Blank Casing
- 0.01 inch Screen
- Static Groundwater

Project No: C103737	Client: ConocoPhillips	Well/ Boring ID: MW-1B	
Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA	Page 1 of 2	
Driller: Cascade Drilling, LP	Date Drilled: 1/15/2011	Location Map	
Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches	See Attached Site Map	
Sampling Method: Split Spoon	Hole Depth: 23 feet		
Casing Type: Sch 40 PVC	Well Diameter:2-inches		
Slot Size: 0.010-inch	Well Depth: 22 feet		
Gravel Pack: 2/12 Sand	Casing Stickup: NA		
Elevation	Northing	Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
								Asphalt
				Air Knife to 5 Feet	1		GC-GP	**Sandy Gravel with Clay**, gray, 50% fine gravel, 35% well graded sand, 15% fines (base rock).
					2		SC	**Clayey Sand**, brown-black, 10% concrete debris, 50% medium sand, 40% fines, low plasticity.
					3			
					4			
					5			As above
		moist	985	7 7 7	6		SP	**Poorly Graded Sand**, blue, <5% fines, fine sand
							CL	**Lean Clay with Sand and Gravel**, brown with orange oxidation, 30% gravel, 15% well graded sand, 55% fines, stiff
		moist	111	7 8 9	7		SP	**Poorly Graded Sand,** blue, 10% fines, fine sand, nodules of clay ~1-inch diameter, trace fine gravel, medium dense
		moist	3.2	8 8 9	8		SC	**Clayey Sand,** blue with red oxidation,10% fine gravel, 70% medium sand, 20% fines, roots with black liquid
	▼	moist	3.8	7 7 8	9		CL	**Sandy Lean Clay**, brown, 10% fine gravel, 30% well graded sand, 60% fines, medium plasticity, very stiff
					10			As above, some thin layers of lean clay, stiff
		moist	18.9	8 8 8	11		CL	**Lean Clay with Sand**, brown-orange mottled, 35% well graded sand,65% fines, root holes with black linings, medium plasticity, very stiff
		moist	0.8	8 9 9	12			As above, 5% fine gravel, sand is fine.
		moist	6.4	7 7 8	13		CL	**Sandy Lean Clay**, brown-orange mottled, 45% fine sand, 55% fines, trace gravel, fine root holes with black linings, stiff
		moist	1.4	7 7 9	14		CL	**Lean Clay**, tan, 15% fine sand, 85% fines, root holes, trace gravel, medium plasticity, very stiff
		moist	5.1	8 9 9	15			As above, color change to blue with orange mottling, medium plasticity, very stiff
	▽	wet	1	7 8 9	16			As above
		wet	2.2	9 9 9	17		SW-SC	**Well Graded Sand with Clay and Gravel,** blue, 60% sand, 25% fine gravel, 15% fines, sand mostly medium and fine, medium dense.
		wet	1.1	9 9	18			As above
					19			
					20			
					21		CL	**Lean Clay with Sand,** tan-blue mottled, 20% fine sand, 80% fines, medium plasticity, roots with brown linings, very stiff
					22			As above

anteagroup	Project No: C103737	Client: ConocoPhillips		Well/ Boring ID: MW-1B
	Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA		Page 2 of 2
	Driller: Cascade Drilling, LP	Date Drilled: 1/15/2011		Location Map
	Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches		See Attached Site Map
	Sampling Method: Split Spoon	Hole Depth: 23 feet		
	Casing Type: Sch 40 PVC	Well Diameter:2-inches		
	Slot Size: 0.010-inch	Well Depth: 22 feet		
	Gravel Pack: 2/12 Sand	Casing Stickup: NA		
	Elevation	Northing	Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
		wet		9	23		CL	**Lean Clay with Sand Continued**

Bottom of Boring at 23 Feet Below Grade

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LIA HOLDEN
No. 8584
Exp. 4/11
STATE OF CALIFORNIA

Legend:

- Portland Cement
- Bentonite Seal
- 2/12 Sand Pack
- Blank Casing
- 0.01 inch Screen
- First Encountered Groundwater
- Static Groundwater

anteagroup	Project No: C103737	Client: ConocoPhillips	Well/ Boring ID: MW-2A	
	Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA	Page 1 of 1	
	Driller: Cascade Drilling, LP	Date Drilled: 1/14/2011	Location Map	
	Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches	See Attached Site Map	
	Sampling Method: Split Spoon	Hole Depth: 10 feet		
	Casing Type: Sch 40 PVC	Well Diameter:2-inches		
	Slot Size: 0.010-inch	Well Depth: 10 feet		
	Gravel Pack: 2/12 Sand	Casing Stickup: NA		
	Elevation	Northing	Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Asphalt
				Air Knife to 5 Feet	1			GC-GP	**Sandy Gravel with Clay**, gray, 50% fine gravel, 35% well graded sand, 15% fines (base rock).
					2			CL	**Lean Clay with Gravel**, gray-brown, 20% fine gravel, 10% medium sand, 70% fines, medium plasticity.
		moist			3			CL	**Lean Clay**, brown, trace sand, medium plasticity
					4				
					5				
		moist	1318	5 6 7	6				As above, green-gray-brown mottled, stiff
		moist	886	5 7 7	7			ML	**Silt**, black, <5% sand, sooty, very moist, nodules of black oil, stiff
	▼				8			GC	**Clayey Gravel**, brown-tan, 80% fine angular gravel, 10% fine sand, 10% fine, medium dense
		moist	9.5	6 7 8	9 10			CL	**Lean Clay**, brown-green mottled, 20% very fine sand, 15% fine gravel, black roots with brown liquid, medium plasticity, stiff

Bottom of Boring at 10 feet below grade

PROFESSIONAL GEOLOGIST
LIA HOLDEN
No. 8584
Exp.
STATE OF CALIFORNIA

Notes:
Groundwater not encountered during drilling.

Legend:

- Portland Cement
- Bentonite Seal
- 2/12 Sand Pack
- Blank Casing
- 0.01 inch Screen
- Static Groundwater

anteagroup

Project No: C103737	Client: ConocoPhillips	Well/ Boring ID: MW-2B	
Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA	Page 1 of 2	
Driller: Cascade Drilling, LP	Date Drilled: 1/15/2011	Location Map	
Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches	See Attached Site Map	
Sampling Method: Split Spoon	Hole Depth: 26 feet		
Casing Type: Sch 40 PVC	Well Diameter:2-inches		
Slot Size: 0.010-inch	Well Depth: 25 feet		
Gravel Pack: 2/12 Sand	Casing Stickup: NA		
Elevation	Northing	Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
								Asphalt
					1		GC-GP	**Sandy Gravel with Clay**, gray, 50% fine gravel, 35% well graded sand, 15% fines (base rock).
					2		CL	**Lean Clay with Gravel**, gray-brown, 20% fine gravel, 10% medium sand, 70% fines, medium plasticity.
					3		CL	**Lean Clay**, brown, trace sand, medium plasticity
					4			
					5			
	▼			Air Knife to 5 Feet				
		moist	419	5 5 6	6			As above, green-gray-brown mottled, stiff
					7			As above, trace fine sand, medium to high plasticity
			1120	5 6 7			ML	**Silt**, olive green-gray, 10-15% fine sand, low to no plasticity, stiff
					8			color change to dark gray with orange mottling
		moist	16.7	5 6 6	9		CL	**Lean Clay**, orange-brown, 15% fine to medium sand, 85% fines, trace fine gravel, medium plasticity, abundant root holes with LNAPL,% sand increasing with depth, stiff
			34.1	7 7 8	10		CL	**Gravelly Lean Clay,** orange brown, 25% small gravel, 20% sand, 55% fines, gravel up to .5-inches, stiff
		moist	23.2	8 8 8	11		CL	**Lean Clay,** orange-brown, 15% fine to medium sand, 80% fines, trace fine gravel, orange oxidation, medium plasticity, abundant root holes with LNAPL
				7 7 9	12			very stiff
					13			As above, no gravel, <10% coarse sand.
		moist	3.4	8 8 9	14			As above, trace fine gravel, root holes less common.
			2.3	9 10 11	15		CL	**Gravelly Lean Clay with Sand**, light brown, 25% small gravel, 15% medium to coarse sand, 60% fines, abundant orange oxidation, nodules within matrix have sheen, nodules are <0.25 inches, gravel up to 0.75 inches, very stiff
		moist	10.6	9 10 11	16		CL	**Lean Clay,** light brown with orange mottling, trace corase sand, black mineral throughout, medium to high plasticity, abundant black root holes, very stiff
			2	10 10 10	17			As above, white precipitate with orange oxidation, light gray color
					18			
		moist		9 9 11	19			As above, root holes less common, groundwater in sample root holes are saturated
	▽	wet	2.7	9 9	20		CL	**Lean Clay with Gravel**, blue-gray, 15% fine gravel, 10% well graded sand, medium plasticity, very stiff
					21			
					22			

anteagroup	Project No: C103737	Client: ConocoPhillips	Well/ Boring ID: MW-2B
	Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA	Page 2 of 2
	Driller: Cascade Drilling, LP	Date Drilled: 1/15/2011	Location Map: See Attached Site Map
	Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches	
	Sampling Method: Split Spoon	Hole Depth: 26 feet	
	Casing Type: Sch 40 PVC	Well Diameter: 2-inches	
	Slot Size: 0.010-inch	Well Depth: 25 feet	
	Gravel Pack: 2/12 Sand	Casing Stickup: NA	
	Elevation	Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
				10	23		CL	**Lean Clay with Gravel Continued**
		wet	2	8 8 9	24			As above, blue with brown mottling, 20% well graded sand, trace small gravel, gravel is rounded, very stiff
		wet	2.5	7 7 9	25 26			As above, crumbly, some black root holes, slough is wet, very stiff

Bottom of Boring at 26 Feet Below Grade

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LIA HOLDEN
No. 8584
Exp. 4/11
STATE OF CALIFORNIA

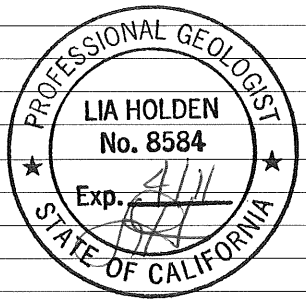
Legend:

- Portland Cement
- Bentonite Seal
- 2/12 Sand Pack
- Blank Casing
- 0.01 inch Screen
- First Encountered Groundwater
- Static Groundwater

anteagroup

Project No: C103737	Client: ConocoPhillips	Well/ Boring ID: MW-3A	
Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA	Page 1 of 1	
Driller: Cascade Drilling, LP	Date Drilled: 1/15/2011	Location Map	
Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches	See Attached Site Map	
Sampling Method: Split Spoon	Hole Depth: 25 feet		
Casing Type: Sch 40 PVC	Well Diameter:2-inches		
Slot Size: 0.010-inch	Well Depth: 25 feet		
Gravel Pack: 2/12 Sand	Casing Stickup: NA		
Elevation	Northing	Easting	

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery / Interval	Soil Type	LITHOLOGY / DESCRIPTION
								Asphalt
								Base Rock
		moist		Air Knife to 5 Feet	1		SC	**Clayey Sand with Gravel,** green-gray, 60% small gravel,
					2			20% well graded sand, 20% fines, gravel is 1" in
								diameter, subrounded, resembles base rock
		moist			3			
	▽		44		4			**Groundwater in hole at 4 feet bgs**
	▼	wet						
					5			
				7				As above, sand is blue and tan, fine angular gravel, sand
		wet	1750	7	6			is 80% fine, medium dense
				7				
				7	7		SC	**Clayey Sand**, gray-green-brown, 70% very fine sand, 30%
		wet	40.5	8				fines, clusters of fine gravel, roots with brown liquid
				9				one 1-inch layer of poorly graded sand, brown, medium
				7	8			grains, medium dense
		wet	10.5	7	9			
				8				as above, 40% fines



Legend:

- Portland Cement
- Bentonite Seal
- 2/12 Sand Pack
- Blank Casing
- 0.01 inch Screen
- ▽ First Encountered Groundwater
- ▼ Static Groundwater

Project No: C103737	Client: ConocoPhillips	Well/ Boring ID: MW-3B
Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA	Page 1 of 2
Driller: Cascade Drilling, LP	Date Drilled: 1/15/2011	Location Map
Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches	See Attached Site Map
Sampling Method: Split Spoon	Hole Depth: 25 feet	
Casing Type: Sch 40 PVC	Well Diameter:2-inches	
Slot Size: 0.010-inch	Well Depth: 25 feet	
Gravel Pack: 2/12 Sand	Casing Stickup: NA	
Elevation	Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
									Asphalt
									Base Rock
		moist			1			SC	**Clayey Sand with Gravel,** green-gray, 60% small gravel,
					2				20% well graded sand, 20% fines, gravel is 1" in diameter, subrounded.
		moist			3				**Groundwater in hole at 4 feet bgs**
	▽	wet			4				
					5				
		wet	1188	7 7 7	6				As above, sand is blue and tan, fine angular gravel, sand is 80% fine, medium dense
	▼	wet	36.1	6 8 8	7			SC	**Clayey Sand**, gray-green-brown, 70% very fine sand, 30% fines, clusters of fine gravel, roots with brown liquid
					8				medium dense
		wet	104	7 7 8	9				As above, 40% fines.
		moist	45.4	8 8 9	10			CL	**Lean Clay with Sand and Gravel,** brown with red oxidation, 15% fine rounded gravel, 20% fine sand, 65% fines, roots with black liquid, low plasticity, very stiff
			35.7	9 9 9	11			SC	**Clayey Sand with Gravel**, 20% small gravel, 60% well graded sand, 20% fines, medium dense.
		moist	84.9	8 9 10	12			CL	**Lean Clay with Sand and Gravel**, brown, 20% gravel, 15% medium sand, 65% fines, red oxidation, brown thick liquid covering gravel and in roots, medium plasticity.
		moist		8 8 8	13				very stiff
			85.5	8 9 11	14				No Recovery
		moist			15				
			69.4	9 9 11	16				As above, trace sand and gravel, some roots, medium plasticity, very stiff
		moist			17				
					18			CL	**Lean Clay with Sand and Gravel**, brown with orange mottling, 15% gravel, 20% sand, 65% fines, root holes, less brown liquid, very stiff.
				9 10 11	19				No Recovery
		moist			20			SC	**Clayey Sand**, blue gray, 55% very fine sand, 45% fines, trace fine gravel, roots, pockets of poorly graded medium sand (tan), medium dense.
			20.9	10 10 10	21				**Clayey Sand with Gravel**, brown with dark red mottling,
			26.4	10 10	22			SC	15% fine gravel, 40% well graded sand, 45% fines, medium dense

Project No: C103737	Client: ConocoPhillips	Well/ Boring ID: MW-3B
Logged By: Nadine Periat	Location: 1400 Powell Street, Emeryville, CA	Page 2 of 2
Driller: Cascade Drilling, LP	Date Drilled: 1/15/2011	Location Map
Drilling Method: Hollow Stem Auger	Hole Diameter: 8-inches	See Attached Site Map
Sampling Method: Split Spoon	Hole Depth: 25 feet	
Casing Type: Sch 40 PVC	Well Diameter:2-inches	
Slot Size: 0.010-inch	Well Depth: 25 feet	
Gravel Pack: 2/12 Sand	Casing Stickup: NA	
Elevation	Northing	Easting

Well Completion (Backfill / Casing)	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery	Sample Interval	Soil Type	LITHOLOGY / DESCRIPTION
				12	23			SC	**Clayey Sand with Gravel Continued**
		moist		11	24			SC	**Clayey Sand**, brown-blue with orange mottling, 55% fine
			25.8	11					sand, 45% fines, trace gravel, medium plasticity.
				13	25				medium dense.

Bottom of Boring at 25 Feet Below Grade

PROFESSIONAL GEOLOGIST
LIA HOLDEN
No. 8584
Exp. 4/11
STATE OF CALIFORNIA

Legend:

- Portland Cement
- Bentonite Seal
- 2/12 Sand Pack
- Blank Casing
- 0.01 inch Screen
- First Encountered Groundwater
- Static Groundwater

Appendix D

Field Data Sheets from Well Development and Groundwater Sampling

WELL NUMBER MW-1A (Shallow) PROJECT NUMBER 3732

DEPTH TO BOTTOM (DB): DATE 1/21/11 / 1/22/11

INITIAL 9.6 DATE(S) INSTALLED 1/15/11

FINAL 8.8 9.45 DATE(S) DEVELOPED 1/21-22/11

STATIC WATER LEVEL: (1/21/11) (1/22/11) PUMP TYPE —

INITIAL 5.7 / 5.82 PUMP CAPACITY —

FINAL 8.8 (1/22/11) BAILER TYPE .50 gal steel

MEASURING POINT TOC BAILER CAPACITY —

FIELD PERSONNEL Evan Chamberlain / Nadine Perez

WELL MEASURMENT:
2-INCH I.D. = 0.16 gal/ft.
4-INCH I.D. = 0.65 gal/ft.
6-INCH I.D. = 1.47 gal/ft.
8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 9.6

DEPTH TO FLUID (DTW) 5.7

HEIGHT OF WATER COLUMN (H) = DB-DTW 3.9

ONE CASING VOUME (CV) = X gal/ft. x H 0.63 7 l

TIME	VOLUME REMOVED	pH	CONDUCTIVITY	TEMP °C	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
1603	1 g	7.87	187.7 µS	16.8	>1000	
1606	2 g	7.86	2.24 mS	16.3	71000	
1609	3 g	7.74	2.15 mS	16.3	71000	well dry after 3 gal purged
8:38	3.5 g	8.15	1683 µS	16.4		
8:40	4 g	8.05	1524	16.1		
8:41	4.5 g	8.02	1552	16.0		
8:42	5 g	7.90	1614	16.5		
8:48	6 g	7.92	1778	16.8		5.5 gal. purged
9:01	6.5 g	7.86	1691	16.5		
9:02	7 g	7.72	1713	16.4		

TOTAL VOLUME REMOVED 7 g DRUMS <1

COMMENTS well took 2 days to develop, very slow RC

WELL NUMBER MW-1B (deep) PROJECT NUMBER 3737

DEPTH TO BOTTOM (DB): DATE 1/22/11

INITIAL 21.8 DATE(S) INSTALLED 1/15/11

FINAL ~~19.75~~ 21.45 DATE(S) DEVELOPED 1/21-22/11

STATIC WATER LEVEL: PUMP TYPE —

INITIAL 8.5 / 11.2 (rising from P) PUMP CAPACITY —

FINAL ~~19.45 11.2 (rising water pressure)~~ BAILER TYPE SS / Disposable

MEASURING POINT TOC BAILER CAPACITY 0.5g / 1L

FIELD PERSONNEL Nadim Ponak

Evan Cunningham

WELL MEASURMENT:

2-INCH I.D. = 0.16 gal/ft.

4-INCH I.D. = 0.65 gal/ft.

6-INCH I.D. = 1.47 gal/ft.

8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 21.8

DEPTH TO FLUID (DTW) 8.5

HEIGHT OF WATER COLUMN (H) = DB-DTW 13.3

ONE CASING VOUME (CV) = X gal/ft. x H 2.261

TIME	VOLUME REMOVED	pH	CONDUCTIVITY	TEMP ~~(F)~~ C	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
1530	2.5	8.50	2.42 mS	19.3	>1000	
1540	5	8.22	2.34 mS	19.5	"	1543 well dry @ 5.75g
1618	7.5	8.06	1921 uS	18.6	"	
1653	9	7.81	1544 uS	18.7	"	well dry @ 9.99l purged
8:49	10	7.81	1421	18.8		
8:51	11	7.71	1436	18.6		
8:52	12	7.81	1469	18.1		
8:55	13	7.83	1505	18.8		
8:57	14	7.83	1621	18.8		
8:56	15	7.86	1655	18.8		
8:59	16	7.85	1649	18.8		

TOTAL VOLUME REMOVED 28g DRUMS ~1

COMMENTS

WELL NUMBER MW-23 | PROJECT NUMBER 3737

DEPTH TO BOTTOM (DB): | DATE 1/21/11

INITIAL 23.2 | DATE(S) INSTALLED 1/19/11

FINAL 23.3 | DATE(S) DEVELOPED 1/21-22/11

STATIC WATER LEVEL: | PUMP TYPE —

INITIAL 5.82 | PUMP CAPACITY —

FINAL 19.8 | BAILER TYPE SS/Disp.

MEASURING POINT TOC | BAILER CAPACITY 0.5/1L

FIELD PERSONNEL Nadine Peniat

WELL MEASURMENT:
2-INCH I.D. = 0.16 gal/ft.
4-INCH I.D. = 0.65 gal/ft.
6-INCH I.D. = 1.47 gal/ft.
8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 23.2

DEPTH TO FLUID (DTW) 5.82

HEIGHT OF WATER COLUMN (H) = DB-DTW 17.38

ONE CASING VOUME (CV) = X gal/ft. x H 2.95

TIME	VOLUME REMOVED	pH	CONDUCTIVITY mS	TEMP (F)	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
9:30	3g	12.28	4.16	18.8	>1000	well not recharging
10:36	6g	11.72	2.84	19.3	>1000	
11:38	9g	11.27	1418 µS	19.3	>1000	
1/22/11 7:55	10g	11.85	3.25 ms	18.8	>1000	
8:05	11g	11:02	1166 µs	19.4	"	
8:07	12g	10.78	1159 µs	19.3	"	
8:09	13g	10.79	1220 µs	18.8	"	
8:11	14g	10.98	1326	19.1	"	
8:13	15g	11.24	1384	18.9	"	
8:15	16g	11:28	1476	19.2	"	wait for RC

See Next Page

TOTAL VOLUME REMOVED 29.5 | DRUMS <1

COMMENTS

WELL NUMBER MW-2A
PROJECT NUMBER 3737
DEPTH TO BOTTOM (DB):
INITIAL 9.9
FINAL 9.9
DATE 1/21/11 / 1/22/11
DATE(S) INSTALLED 1/14/11
DATE(S) DEVELOPED 1/21+22/11
STATIC WATER LEVEL: 1/21/11 1/22/11
INITIAL 5.72 / 8.75
FINAL 8.8 / 8.75
PUMP TYPE —
PUMP CAPACITY —
BAILER TYPE steel
BAILER CAPACITY 0.25 gal
MEASURING POINT TOC
FIELD PERSONNEL Nadia Perez / Evan Cunningham

WELL MEASURMENT:
2-INCH I.D. = 0.16 gal/ft.
4-INCH I.D. = 0.65 gal/ft.
6-INCH I.D. = 1.47 gal/ft.
8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 9.9
DEPTH TO FLUID (DTW) 5.72
HEIGHT OF WATER-COLUMN (H) = DB-DTW 4.18
ONE CASING VOUME (CV) = X gal/ft. x H 0.7106

	TIME	VOLUME REMOVED	pH	CONDUCTIVITY ms	TEMP (F)	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
1/21/11	10:17	1	8.82	2.57	17.2	>1000	
	10:21	2	8.86	2.60	17.1	>1000	Dry @ 2.5 gal
	11:40	3	8.62	2.64	17.8	>1000	Dry, leave well.
1/22/11	8:12	3.5 g	9.1	2.69	16.9	>100	Dry after .5 gal.

TOTAL VOLUME REMOVED 3.5 gal DRUMS <1

COMMENTS Well did not RC overnight.

WELL NUMBER MW-3A (Shallow) PROJECT NUMBER 3737

DEPTH TO BOTTOM (DB): DATE 1/21/11

INITIAL 8.90 DATE(S) INSTALLED 1/15/11

FINAL 8.95 DATE(S) DEVELOPED 1/21-22/11

STATIC WATER LEVEL: 1/21/11 1/22/11 PUMP TYPE —

INITIAL 4.65 / 5.12 PUMP CAPACITY —

FINAL 8.05 BAILER TYPE Steel

MEASURING POINT TOC BAILER CAPACITY 0.5g

FIELD PERSONNEL Evan C.

Nadine R.

WELL MEASURMENT:
2-INCH I.D. = ~~0.16~~ gal/ft.
4-INCH I.D. = 0.65 gal/ft.
6-INCH I.D. = 1.47 gal/ft.
8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 9.0

DEPTH TO FLUID (DTW) 4.65

HEIGHT OF WATER COLUMN (H) = DB-DTW 4.35

ONE CASING VOUME (CV) = X gal/ft. x H 0.7395 ≈ ~~X~~ 4.35 x .17

TIME	VOLUME REMOVED	pH	CONDUCTIVITY	TEMP (°C)	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
1345	1	12.25	4.86 mS	19.9	>1000	
1400	2	12.36	4.47 mS	18.8	"	
1401	3	12.37	4.79 mS	18.5	"	well dry after 3.25 gallons
930	3.5	11.99	3.64	18.4	"	
9:31	4.0	12.14	3.26	18.0	>1000	
9:33	4.5	12.22	3.75	18.1	>1000	
9:35	5	12.21	3.50	18.0	>1000	wait for RC
10:00	6	12.07	3.23	19.3	>1000	
10:03	7	12.15	3.05	18.6	>1000	wait for RC
10:21	7.5	12.03	3.17	18.7	>1000	FINISHED

TOTAL VOLUME REMOVED 7.5g = DRUMS 1

COMMENTS

WELL NUMBER MW-3B (Deep) PROJECT NUMBER 3737

DEPTH TO BOTTOM (DB): DATE 1/21/11

INITIAL 23.9 DATE(S) INSTALLED 1/13/11

FINAL ~~23.9~~ 23.9 DATE(S) DEVELOPED 1/21-22/11

STATIC WATER LEVEL: PUMP TYPE —

INITIAL 9.85 | 7.2 PUMP CAPACITY —

FINAL 18.85 BAILER TYPE SS

MEASURING POINT TOC BAILER CAPACITY 0.5g

FIELD PERSONNEL Evan C.
Nadine P.

WELL MEASURMENT:
2-INCH I.D. = 0.16 gal/ft.
4-INCH I.D. = 0.65 gal/ft.
6-INCH I.D. = 1.47 gal/ft.
8-INCH I.D. = 2.51 gal/ft.

MEASURED DEPTH TO BOTTOM (DB) 23.9

DEPTH TO FLUID (DTW) 9.85

HEIGHT OF WATER COLUMN (H) = DB-DTW 14.05

ONE CASING VOUME (CV) = X gal/ft. x H 2.3885 x ~~5~~ 2.5

	TIME	VOLUME REMOVED	pH	CONDUCTIVITY	TEMP ~~°F~~ °C	TURBIDITY	OTHER PHYSICAL CHARACTERISTICS
1/21/11	1321	2.5g	9.72	1935 µS	20.9	71000	
	1326	5	8.57	1879 µS	20.4	71000	Dewatered @ 1328, 5.25g
	1417	7.5	9.18	1436 µS	20.8	71000	Well has been sitting for 51 minutes
	1424	10	9.03	1601 µS	20.5	71000	well dry @ 10.25g Purged
1/22/11	10:06	11	9.20	1344	20.7		
	10:08	12	8.88	1351	20.4		
	10:10	13	8.77	1420	20.2		
	10:11	14	8.74	1356	20.4		
	10:12	15	8.63	1427	20.4		
	10:13	16	8.64	1429	20.4		

TOTAL VOLUME REMOVED 24g DRUMS 1

COMMENTS

Groundwater Sampling Form

Facility Location:	1900 Powell St, Emeryville		
Station #:	3737	Field Technician:	Nadine Remaut
Well Identification:	MW-1A	Date:	1/26/11
Well Diameter (in):	(2) 3 4 6 8 ___	Depth to Water (DTW) (ft bgs):	5.8
Thickness of SPH (ft):	—	Depth to SPH (ft bgs):	—
Water Column Height (WCH) (ft):	3.88	Total Depth of Well(TDW) (ft bgs):	9.68

Purging Info and Calculations:

Purge Method:	Bailer	(Disposable Bailer)	Electric Submersible	Extraction Pump	Other:
Sample Method:	Bailer	(Disposable Bailer)	Extraction Port	Other:	
Top of Casing(TOC):	—				
TOC–DTW= Groundwater Elevation:	—				

3.78 CF
6.57

TDW–DTW=WCH WCHxCF=CV

Top of Screen: — If well is listed as a no-purge @XX feet, confirm that water level is below the top of screen. Otherwise, the well must be purged.

Casing Volume (gal): .66 X Specified Volumes: 3 = Calculated Purge (gal): N2

Start Time: 11:05 Stop Time: 11:19

Conversion Factors (gal/ft): 2" = 0.17 3" = 0.38 4" = 0.66 6" = 1.5 8" = 2.6 Other = (diam in inches)^2 * 0.041

Purge:

Time	Volume Removed (gal)	Temp (°C)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP	Turb
11:11	0.66	16.99	1.307	1.003	17.51	9.18	94.4	>1000
11:14	1.33	17.1	1.400	1.071	5.66	8.87	110.6	>1000
11:19	2.0	16.92	1.358	1.041	5.89	8.40	116.2	>1000

D.O. (if req'd):	Pre-purge:	17.51 mg/L	Post-purge:	5.89	mg/L
O.R.P. (if req'd):	Pre-purge:	94.4 mV	Post-purge:	116.2	mV
Did Well dewater? Yes No			Actual Purge volume (gal):	2.0	
Other Comments:	Strings of SPH on purge H2O				

Sample Info:

Sample ID:	MW-1A	Sample Date and Time:	1/26/11 2020
Sample Containers and Selected Analysis:	2x32oz A, 6 Voas - TPH-D, MO 8015 w/SG, Full VOC scan 8260.		

Purge Water Stored/Disposed of Where/How: Onsite in 1 55-gal drum.

Signature: [signature] Date: 1/26/11

QA Signature: Date:

Groundwater Sampling Form

Facility Location:	1900 Powell St.		
Station #:	3737	Field Technician:	Nadine Portal
Well Identification:	MW-1B	Date:	1/26/11
Well Diameter (in):	(2) 3 4 6 8 ___	Depth to Water (DTW) (ft bgs):	9.46
Thickness of SPH (ft):	—	Depth to SPH (ft bgs):	—
Water Column Height (WCH) (ft):	12.03	Total Depth of Well(TDW) (ft bgs):	21.49

80% RC @ 11.86'

Purging Info and Calculations:

Purge Method:	Bailer	(Disposable Bailer)	Electric Submersible	Extraction Pump	Other:
Sample Method:	Bailer	(Disposable Bailer)	Extraction Port	Other:	
Top of Casing(TOC):	—				
TOC–DTW= Groundwater Elevation:	—				

TDW–DTW=WCH WCHxCF=CV

Top of Screen: — If well is listed as a no-purge @XX feet, confirm that weter level is below the top of screen. Otherwise, the well must be purged.

Casing Volume (gal): 2 X Specified Volumes: 3 = Calculated Purge (gal): 6

Start Time: 11:20 Stop Time: 11:37

Conversion Factors (gal/ft): 2" = 0.17 3" = 0.38 4" = 0.66 6" = 1.5 8" = 2.6 Other = (diam in inches)^2 * 0.041

Purge:

Time	Volume Removed (gal)	Temp (°C)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP	Turb
11:26	2	18.98	1.381	1.011	6.24	8.40	130.8	>1000
11:31	4	19.30	1.364	1.007	6.32	8.31	146.9	>1000
11:37	6	19.15	1.309	0.955	5.45	8.17	163.5	>1000

D.O. (if req'd):	Pre-purge:	6.24 mg/L	Post-purge:	5.45	mg/L
O.R.P. (if req'd):	Pre-purge:	~~5.45~~ 130.8 mV	Post-purge:	163.5	mV

Did Well dewater? (Yes) No Actual Purge volume (gal): 6

Other Comments: Slow RC in well.

Sample Info:

Sample ID:	MW-1B	Sample Date and Time:	1/26/11 1:20
Sample Containers and Selected Analysis:	2 32oz A; 6 VOAs - TPH-D, MO, full VOC scan		

Purge Water Stored/Disposed of Where/How: Onsite in 55-gal drum

Signature: [signature] Date: 1/26/11

QA Signature: _____ Date: _____

Groundwater Sampling Form

Facility Location:	1900 Powell St, Emeryville, CA		
Station #:	3737	Field Technician:	MP
Well Identification:	MW-2A	Date:	1/26/11
Well Diameter (in):	(2) 3 4 6 8 ___	Depth to Water (DTW) (ft bgs):	8.02
Thickness of SPH (ft):	—	Depth to SPH (ft bgs):	—
Water Column Height (WCH) (ft):	1.92	Total Depth of Well(TDW) (ft bgs):	9.94

Purging Info and Calculations:

Purge Method:	(Bailer)	Disposable Bailer	Electric Submersible	Extraction Pump	Other:
Sample Method:	(Bailer)	Disposable Bailer	Extraction Port	Other:	
Top of Casing(TOC):	—				
TOC–DTW= Groundwater Elevation:	—				

50% RCE 8.4'

TDW–DTW=WCH WCHxCF=CV

Top of Screen: — If well is listed as a no-purge @XX feet, confirm that weter level is below the top of screen. Otherwise, the well must be purged.

Casing Volume (gal): .324 X Specified Volumes: 3 = Calculated Purge (gal): 1

Start Time: Stop Time:

Conversion Factors (gal/ft): 2" = 0.17 3" = 0.38 4" = 0.66 6" = 1.5 8" = 2.6 Other = (diam in inches)^2 * 0.041

Purge:

Time	Volume Removed (gal)	Temp (°C)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP	TDS
10:30	0.33	18.72	1.378	1.013	9.26	8.72	100.8	>1000
10:41	0.66	18.33	2.708	1.997	4.98	8.17	133.8	>1000
10:43	1	18.95	2.676	1.964	5.17	7.84	143.2	>1000
10:45	1.33	18.73	2.659	1.954	5.90	7.73	143.4	>1000 DRY

D.O. (if req'd):	Pre-purge:	9.26	mg/L	Post-purge:	100.8	mg/L
O.R.P. (if req'd):	Pre-purge:	5.90	mV	Post-purge:	143.4	mV

Did Well dewater? Yes No — Actual Purge volume (gal): 1.33

Other Comments: Well did not R/C since development, prepurge sample collected.

Sample Info:

Sample ID:	MW-2A	Sample Date and Time:	1/26/11 10:33
Sample Containers and Selected Analysis:	1 3207 A, 6 VOAs - TPH-D, MO 8015/SG, Full VOC		

Purge Water Stored/Disposed of Where/How: Onsite - 55g drum

Signature: [signature] Date: 1/26/11

QA Signature: Date:

Groundwater Sampling Form

Facility Location:	3M 1400 Powell St		
Station #:	3737	Field Technician:	NP
Well Identification:	MW-2B	Date:	1/26/11
Well Diameter (in):	(2) 3 4 6 8 ___	Depth to Water (DTW) (ft bgs):	5.51
Thickness of SPH (ft):	—	Depth to SPH (ft bgs):	—
Water Column Height (WCH) (ft):	17.79	Total Depth of Well(TDW) (ft bgs):	23.3

Purging Info and Calculations:

Purge Method:	Bailer	(Disposable Bailer)	Electric Submersible	Extraction Pump	Other:
Sample Method:	Bailer	Disposable Bailer	Extraction Port	Other:	
Top of Casing(TOC):	—				
TOC–DTW= Groundwater Elevation:	—				

0.1 x 2 = 0.2
9.06

TDW–DTW=WCH WCHxCF=CV

Top of Screen: ✓ If well is listed as a no-purge @XX feet, confirm that water level is below the top of screen. Otherwise, the well must be purged.

Casing Volume (gal): 3 X Specified Volumes: 3 = Calculated Purge (gal): 9

Start Time: 10:20 Stop Time: 10:59

Conversion Factors (gal/ft): 2" = 0.17 3" = 0.38 4" = 0.66 6" = 1.5 8" = 2.6 Other = (diam in inches)^2 * 0.041

Purge:

Time	Volume Removed (gal)	Temp (°C)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP	Turb
10:24	3	20.58	1.250 ms/cm	0.887	5.74	9.20	130.0	155
10:48	6	20.3	1,190	0.847	8.25	8.73	126.7	>1000
10:59	9	20.17	1.078	0.740	8.47	7.23	120.5	>1000

D.O. (if req'd):	Pre-purge:	5.74 mg/L	Post-purge:	8.47	mg/L
O.R.P. (if req'd):	Pre-purge:	130.0 mV	Post-purge:	120.5	mV
Did Well dewater? (Yes) No			Actual Purge volume (gal):	9 gal.	
Other Comments:	Slow recharge.				

Sample Info:

Sample ID:	MW-2B	Sample Date and Time:	1/26/11
Sample Containers and Selected Analysis:	2 32oz Ambers, 6 VOAs — TPH-D, MO8015 w/SG, full VOC Scan		
Purge Water Stored/Disposed of Where/How:	Onsite — 55 gal Drum		
Signature:		Date:	1/26/11
QA Signature:		Date:	

Groundwater Sampling Form

Facility Location:	1400 Powell St, Emeryville, CA		
Station #:	3759	Field Technician:	Nadine Penat
Well Identification:	MW-3A	Date:	1/26/11
Well Diameter (in):	(2) 3 4 6 8 ___	Depth to Water (DTW) (ft bgs):	4.75
Thickness of SPH (ft):	—	Depth to SPH (ft bgs):	—
Water Column Height (WCH) (ft):	4.21	Total Depth of Well(TDW) (ft bgs):	8.96

30% RUL 5.54

Purging Info and Calculations:

Purge Method:	Bailer	(Disposable Bailer)	Electric Submersible	Extraction Pump	Other:
Sample Method:	Bailer	(Disposable Bailer)	Extraction Port	Other:	
Top of Casing(TOC):	—				
TOC–DTW= Groundwater Elevation:	—				

TDW–DTW=WCH WCHxCF=CV

Top of Screen: —

If well is listed as a no-purge @XX feet, confirm that weter level is below the top of screen. Otherwise, the well must be purged.

Casing Volume (gal): .71 X Specified Volumes: 3 = Calculated Purge (gal): 2.15

Start Time: 12:05 Stop Time:

Conversion Factors (gal/ft): 2" = 0.17 3" = 0.38 4" = 0.66 6" = 1.5 8" = 2.6 Other = (diam in inches)^2 * 0.041

Purge: Turbidity

Time	Volume Removed (gal)	Temp (°C)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP	
12:07	0.75	20.02	0.940	0.670	5.01	10.14	117.2	>1000
12:10	1.5	19.62	1.177	0.851	5.61	10.94	82.6	>1000
12:16	2.15	19.63	1.024	0.741	5.60	10.45	70.2	>1000

D.O. (if req'd):	Pre-purge:	5.01 mg/L	Post-purge:	117.2	mg/L
O.R.P. (if req'd):	Pre-purge:	5.60 mV	Post-purge:	70.2	mV

Did Well dewater? (Yes) No Actual Purge volume (gal):

Other Comments: pH in well was <10 & >12 during dev, variable during purging.

Sample Info:

Sample ID:	MW-2B	Sample Date and Time:	1/26/11
Sample Containers and Selected Analysis:	2x320z Ambers, 6 Voas - DRO/MO, Full VOC scan		

Purge Water Stored/Disposed of Where/How: onsite - 1-55gal-drum.

Signature: [signature] Date: 1/26/11

QA Signature: _____ Date: _____

Groundwater Sampling Form

Facility Location:	1900 Powell St, Emeryville, CA		
Station #:	3737	Field Technician:	Nadine Portal
Well Identification:	MW-3B	Date:	1/26/11
Well Diameter (in):	(2) 3 4 6 8 ___	Depth to Water (DTW) (ft bgs):	7.33
Thickness of SPH (ft):	—	Depth to SPH (ft bgs):	—
Water Column Height (WCH) (ft):	16.22	Total Depth of Well(TDW) (ft bgs):	23.55

Purging Info and Calculations:

Purge Method:	Bailer	(Disposable Bailer)	Electric Submersible	Extraction Pump	Other:
Sample Method:	Bailer	(Disposable Bailer)	Extraction Port	Other:	
Top of Casing(TOC):	—				
TOC–DTW= Groundwater Elevation:	—				

80% RL @ 10.57

TDW–DTW=WCH

WCHxCF=CV

Top of Screen: —

If well is listed as a no-purge @XX feet, confirm that weter level is below the top of screen. Otherwise, the well must be purged.

Casing Volume (gal): 2.75 X Specified Volumes: 3 = Calculated Purge (gal): 8.3

Start Time: 11:48 Stop Time:

Conversion Factors (gal/ft): 2" = 0.17 3" = 0.38 4" = 0.66 6" = 1.5 8" = 2.6 Other = (diam in inches)^2 * 0.041

Purge:

Time	Volume Removed (gal)	Temp (°C)	Conductivity (ms/cm)	TDS (g/L)	DO (mg/L)	pH	ORP	Turb
11:53	2.75	21.28	1.416	0.990	15.26	8.29	164.8	153
11:58	5.5	21.37	1.512	1.056	6.06	8.30	167.1	>1000
12:13	8.30	21.25	1.430	1.003	4.23	8.93	118.5	>1000

Neither RL

D.O. (if req'd):	Pre-purge:	15.26	mg/L	Post-purge:	4.23	mg/L
O.R.P. (if req'd):	Pre-purge:	164.8	mV	Post-purge:	118.5	mV

Did Well dewater? (Yes) No Actual Purge volume (gal): 8.30

Other Comments: Slow R/C

Sample Info:

Sample ID:	MW-3B	Sample Date and Time:	1/26/11 1:35
Sample Containers and Selected Analysis:	2 Ambers (32oz), 6 VOAs - DRO/MO, Full VOC scan		

Purge Water Stored/Disposed of Where/How: onsite - 55-gal Drum.

Signature: Nadine Portal Date: 1/26/11

QA Signature: ___ Date: ___

Appendix E

Mid Coast Engineers Well Survey Report

Mid Coast Engineers
Civil Engineers and Land Surveyors
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Land Surveyor

February 7, 2011

Nadine Periat
Antea USA, Inc.
312 Piercy Road
San Jose, CA 95138

Re: **Former 76 Station No. 3737, 1400 Powell Street, Emeryville, California;** ANTEA Project No. C103737, MCE Job No. 11013

Dear Ms. Periat,

As you requested, January 21 we surveyed six monitoring wells located at the referenced site. Our findings are listed on the attached sheets, expressed in State Plane Coordinates and Latitude/Longitude.

A notch was cut in the north rim of the PVC casing (TOC) and a cross chiseled in the north rim of the standard box (TOB).

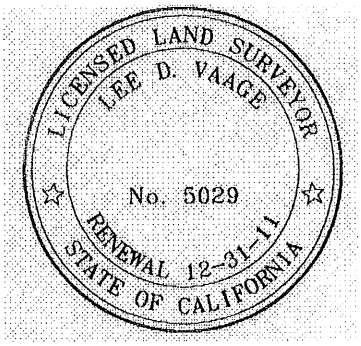
Measurements were obtained from conventional survey techniques in combination with GPS techniques (Code CGPS) using GPS control points AA3817 (HPGN D CA 04 GG) and HT2935 (YACHT), as published by NGS/NOAA and listed on their website. Latitude and Longitude as shown were determined from the California Coordinate System, Zone 3, NAD 83 Datum, Epoch Date 2007.00. The accuracy range of the reported information is +/- 1cm. GPS equipment is the Trimble 5700/5800 system (Code T57).

The benchmark used for this survey is HT2935, as mentioned above, a survey disk set in the top of concrete monument in the northwest corner of the parking lot at the Berkeley Marina. Elevation = 10.96 feet, NAVD 88 datum.

Please let me know if you have questions or need additional information.

Yours truly,

Lee D. Vaage



FORMER 76 STATION #3737
1400 Powell Street
Emeryville, California

ANTEA Project No. C103737

Project : 11013
User name MCE Date & Time 3:28:40 PM 2/7/2011
Coordinate System US State Plane 1983 Zone California Zone 3 0403
Project Datum NAD 1983 (Conus)
Vertical Datum NAVD 88
Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Pt. Number	Northing	Easting	Elevation	Description
61	2133105.23	6044813.18	18.74	MW-1Atoc
62	2133105.70	6044813.16	19.15	MW-1Atob
63	2133101.75	6044814.21	18.88	MW-1Btoc
64	2133102.24	6044814.08	19.29	MW-1Btob
74	2133154.98	6044840.53	18.93	MW-2Atoc
75	2133155.38	6044840.34	19.32	MW-2Atob
76	2133155.75	6044844.09	19.10	MW-2Btoc
77	2133156.25	6044843.94	19.49	MW-2Btob
13	2133175.51	6044930.11	18.62	MW-3Atoc
14	2133175.92	6044930.01	19.22	MW-3Atob
15	2133176.77	6044933.00	18.57	MW-3Btoc
16	2133177.29	6044933.00	19.18	MW-3Btob
1003	2142129.37	6037331.33	10.96	GPS 2935

FORMER 76 STATION #3737
1400 Powell Street
Emeryville, California

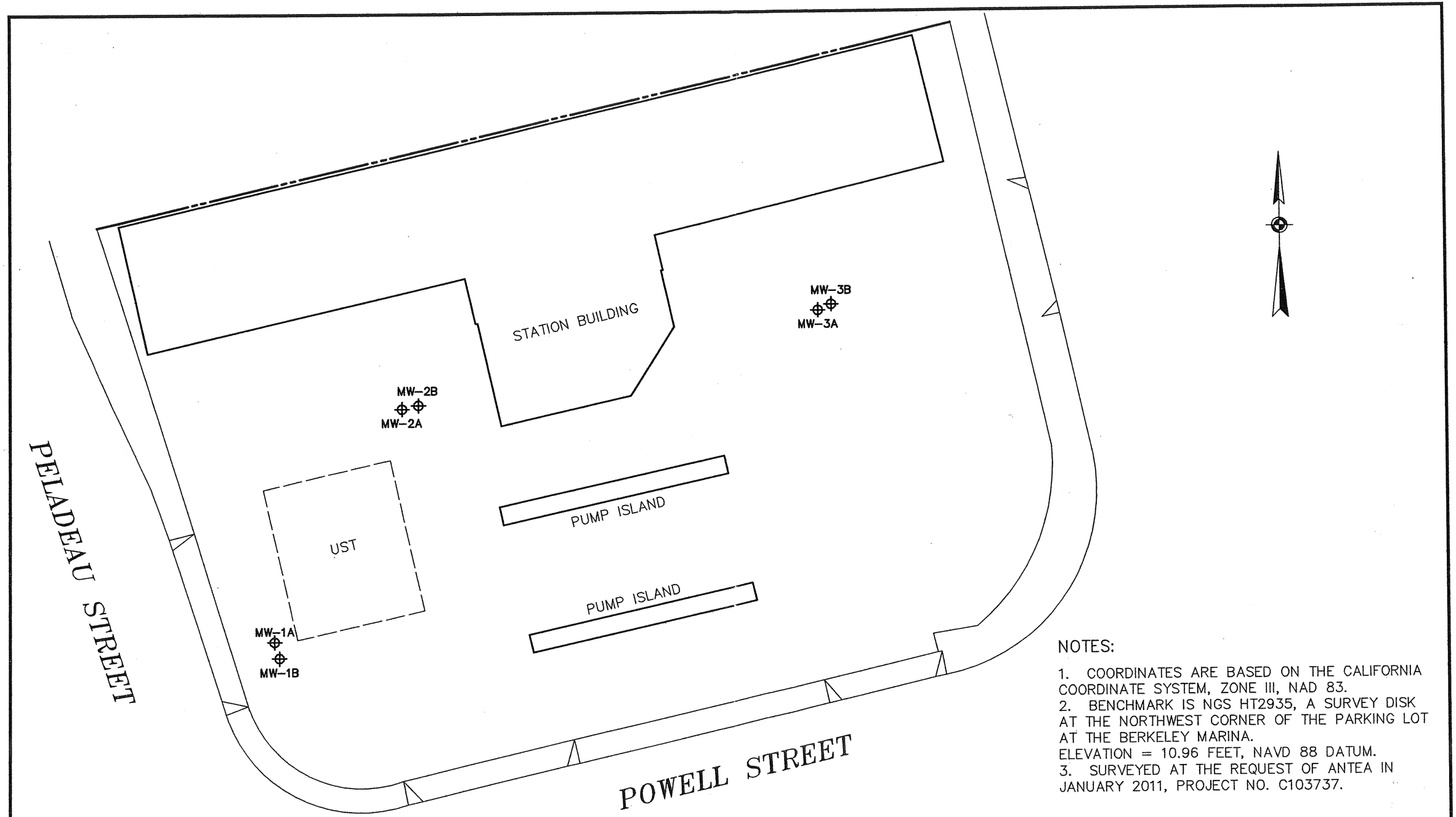
ANTEA Project No. C103737

Project : 11013
User name MCE Date & Time 3:28:40 PM 2/7/2011
Coordinate System US State Plane 1983 Zone California Zone 3 0403
Project Datum NAD 1983 (Conus)
Vertical Datum NAVD 88
Coordinate Units US survey feet
Distance Units US survey feet
Elevation Units US survey feet

Pt. Number	Latitude	Longitude	Elevation	Description
61	37.839553248°N	122.289952356°W	18.74	MW-1Atoc
62	37.839554549°N	122.289952457°W	19.15	MW-1Atob
63	37.839543753°N	122.289948589°W	18.88	MW-1Btoc
64	37.839545083°N	122.289949068°W	19.29	MW-1Btob
74	37.839691304°N	122.289860983°W	18.93	MW-2Atoc
75	37.839692391°N	122.289861665°W	19.32	MW-2Atob
76	37.839693586°N	122.289848682°W	19.10	MW-2Btoc
77	37.839694960°N	122.289849245°W	19.49	MW-2Btob
13	37.839752374°N	122.289552166°W	18.62	MW-3Atoc
14	37.839753504°N	122.289552555°W	19.22	MW-3Atob
15	37.839755981°N	122.289542243°W	18.57	MW-3Btoc
16	37.839757405°N	122.289542292°W	19.18	MW-3Btob
1003	37.863935754°N	122.316463362°W	10.96	GPS 2935

	A	B	C	D	E	F	G	H	I	J	K	L
1	**FORMER 76 STATION #3737**											
2	**1400 Powell Street**											
3	**Emeryville, California**											
4												
5	**ANTEA Project No. C103737**											
6												
7	Project : 11013											
8	User name MCE			Date & Time	3:28:40 PM 2/7/2011							
9	Coordinate System	US State Plane 1983		Zone	California Zone 3 0403							
10	Project Datum	NAD 1983 (Conus)										
11	Vertical Datum	NAVD 88										
12	Coordinate Units	US survey feet										
13	Distance Units	US survey feet										
14	Elevation Units	US survey feet										
15												
16		MW-1A	MW	01/21/2011	37.8395532	-122.2899524	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
17		MW-1B	MW	01/21/2011	37.8395438	-122.2899486	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
18		MW-2A	MW	01/21/2011	37.8396913	-122.2898610	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
19		MW-2B	MW	01/21/2011	37.8396936	-122.2898487	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
20		MW-3A	MW	01/21/2011	37.8397524	-122.2895522	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing
21		MW-3B	MW	01/21/2011	37.8397560	-122.2895422	CGPS	NAD83	1	Mid Coast Engineers	T57	top of casing

	A	B	C	D	E	F	G	H	I	J
1	**FORMER 76 STATION #3737**									
2	**1400 Powell Street**									
3	**Emeryville, California**									
4										
5	**ANTEA Project No. C103737**									
6										
7	Project : 11013									
8	User name MCE Date & Time 3:28:40 PM 2/7/2011									
9	Coordinate System US State Plane 1983 Zone California Zone 3 0403									
10	Project Datum NAD 1983 (Conus)									
11	Vertical Datum NAVD 88									
12	Coordinate Units US survey feet									
13	Distance Units US survey feet									
14	Elevation Units US survey feet									
15										
16		MW-1A	01/21/2011	18.74	CGPS	88	0.5	Mid Coast Engineers	-0.41	BM NGS HT2935 EL=10.96 FEET
17		MW-1B	01/21/2011	18.88	CGPS	88	0.5	Mid Coast Engineers	-0.41	BM NGS HT2935 EL=10.96 FEET
18		MW-2A	01/21/2011	18.93	CGPS	88	0.5	Mid Coast Engineers	-0.39	BM NGS HT2935 EL=10.96 FEET
19		MW-2B	01/21/2011	19.10	CGPS	88	0.5	Mid Coast Engineers	-0.39	BM NGS HT2935 EL=10.96 FEET
20		MW-3A	01/21/2011	18.62	CGPS	88	0.5	Mid Coast Engineers	-0.60	BM NGS HT2935 EL=10.96 FEET
21		MW-3B	01/21/2011	18.57	CGPS	88	0.5	Mid Coast Engineers	-0.61	BM NGS HT2935 EL=10.96 FEET



NOTES:

1. COORDINATES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE III, NAD 83.
2. BENCHMARK IS NGS HT2935, A SURVEY DISK AT THE NORTHWEST CORNER OF THE PARKING LOT AT THE BERKELEY MARINA.
ELEVATION = 10.96 FEET, NAVD 88 DATUM.
3. SURVEYED AT THE REQUEST OF ANTEA IN JANUARY 2011, PROJECT NO. C103737.

MONITORING WELL LOCATION MAP FOR
FORMER 76 STATION NO. 3737

1400 POWELL STREET
EMERYVILLE, CALIFORNIA

MCE
MID COAST ENGINEERS
CIVIL ENGINEERS AND LAND SURVEYORS
70 PENNY LANE SUITE A WATSONVILLE, CA 95076
(831) 724-2580

SCALE IN FEET
0 20 40

SCALE:	1"=20'
JOB NO.	11013
DATE:	FEB. 8, 2011
SHEET:	1 OF 1

Appendix F

Laboratory Analytical Reports

Is the Data Valid? (circle)	Preservation Temperature (if Known): _____ °C
Yes / No	

Delta Lab Validation Sheet

Project/Client: 3737 / ConocoPhillips
Project #: C103737121
Date of Validation: 2/17/2011 **Date of Analysis:** 2/3-7/2011
Sample Date: 1/26/2011 **Completed By:** Nadine Periat
Signature:
Analytical Lab Used and Report #BC Labs No. 1101549

Circle or Highlight Yes / No (below)

1. Was the analysis the one requested?	Yes / No
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	Yes / No
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?	Yes / No
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?	Yes / No
5. Were Laboratory blanks performed, if so, were they below non-detect?	Yes / No
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m^3,etc.)	Yes / No
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	Yes / No
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	NA
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?	Yes / No
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	Yes / No
11. Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?	Yes / No

If any answer is no, explain why and what corrective action was taken:

9. Matrix spike precision was not within control limits for MSD No. 1016633-39. Results accepted based on good LCS recovery.

Is the Data Valid? (circle) Yes / No

Preservation Temperature (if Known): _____ °C

Delta Lab Validation Sheet

Project/Client: 3737 / ConocoPhillips
Project #: C103737121
Date of Validation: 2/17/2011 **Date of Analysis:** 1/26-2/8/2011
Sample Date: 1/14-15/2011 **Completed By:** Nadine Periat
Signature:

Analytical Lab Used and Report # BC Labs No. 1101168

Circle or Highlight Yes / No (below)

1.	Was the analysis the one requested?	Yes / No
2.	Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	Yes / No
3.	Were samples prepared (extracted, filtered, etc.) within EPA holding times?	Yes / No
4.	Once prepared/extracted, were the samples analyzed within the EPA holding times?	Yes / No
5.	Were Laboratory blanks performed, if so, were they below non-detect?	Yes / No
6.	Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m^3,etc.)	Yes / No
7.	Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	Yes / No
8.	In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	NA
9.	Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?	Yes / No
10.	Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	Yes / No
11.	Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?	Yes / No

If any answer is no, explain why and what corrective action was taken:

Is the Data Valid? (circle)	Preservation Temperature (if Known): _____ °C
Yes / No	

Delta Lab Validation Sheet

Project/Client: 3737 / ConocoPhillips
Project #: C103737121
Date of Validation: 2/17/2011 **Date of Analysis:** 1/19-1/20/2011
Sample Date: 1/7-1/8/2011 **Completed By:** Nadine Periat
Signature: Nadi Periat

Analytical Lab Used and Report # BC Labs No. 1100824

Circle or Highlight Yes / No (below)

1. Was the analysis the one requested?	Yes / No
2. Do the sample number(s) on the chain-of-custody (COC) match the one(s) that appear on the laboratory data sheet?	Yes / No
3. Were samples prepared (extracted, filtered, etc.) within EPA holding times?	Yes / No
4. Once prepared/extracted, were the samples analyzed within the EPA holding times?	Yes / No
5. Were Laboratory blanks performed, if so, were they below non-detect?	Yes / No
6. Are the units correct? (i.e., soil samples in mg/kg or ug/g, water samples mg/L, ug/L, and air samples in volume mg/m^3,etc.)	Yes / No
7. Were appropriate Matrix Spike (MS) and Matrix Spike Duplicate (MSD) samples included in the laboratory batch sample?	Yes / No
8. In lieu of MS/ MSD, were surrogate spike (SS) or surrogate spike duplicate (SSD) samples included in the laboratory batch samples?	NA
9. Were MS/ MSD (or SS/SSD) within the acceptable range of % recovery (i.e., approx 80-120% depending on analyte)?	Yes / No
10. Were MS/MSD (or SS/SSD) values used to calculate Relative Percent Difference (RPD)?	Yes / No
11. Were Relative Percent Difference values within the acceptable range (i.e. ±25%)?	Yes / No

If any answer is no, explain why and what corrective action was taken:

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/01/2011

Lia Holden

Antea Group
312 Piercy Rd
San Jose, CA 95138

RE:	3737
BC Work Order:	1100824
Invoice ID:	B094336

Enclosed are the results of analyses for samples received by the laboratory on 1/14/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Table of Contents

Chain Of Custody Record

BC Laboratories
4100 Atlas Court, Bakersfield, CA
(661) 327-4911 (661) 327-1918 fax

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

1100824

Requesition Number:	DATE: 1/7/2010
000010122363-00015	PAGE: 1 of 1
PO Number	
4513949114	

SAMPLING COMPANY: Antea™Group	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 3737	GLOBAL ID NO.: T06019745736
ADDRESS: 312 Piercy Road, San Jose, CA		SITE ADDRESS (Street and City): 1400 Powell Street, Emeryville, California	ConocoPhillips Manager: Ted Moise
PROJECT CONTACT (Hardcopy or PDF Report to): Lia Holden		EDF DELIVERABLE TO (RP or Designee): Lia Holden	PHONE NO.: 408-826-1863
TELEPHONE: 408-826-1863	FAX: 408-225-8506	E-MAIL: Lholden@dcfaenv.com	E-MAIL: TedMoise@contractor.conocophillips.com
SAMPLER NAME(S) (Print): Nadine Periat	CONSULTANT PROJECT NUMBER: 3737	LAB USE ONLY	

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

PLEASE CC RESULTS TO Nadine.Periat@Anteagroup.com

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH-G, BTEX, MTBE by EPA Method 8260B	Full VOC Scan including all fuel Oxygenates and Lead Scavengers by EPA 8260	TPH-D, TPH-Motor Oil by EPA 8015M with Silica Gel Cleanup	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
-1	MW-3B	MW-3B@3	1/7/10	13:25	S	1	X	X	X	
-2	MW-1B	MW-1B@3	1/7/10	16:30	S	1	X	X	X	
-3	MW-2B	MW-2B@3	1/8/10	8:11	S	1	X	X	X	
-4	MW-2B	MW-2B@5	1/8/10	8:30	S	1	X	X	X	

TEMPERATURE ON RECEIPT C°

CHK BY DISTRIBUTION SUB-OUT ☐

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	P. BINS BC LABS	1/13/11	1345
[signature] BCL VIA GSO 1/13/11 1600	[signature]	1-14-11	750

9/19/03 Revision

Chain of Custody and Cooler Receipt Form for 1100824 Page 2 of 2

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 1100824

SHIPPING INFORMATION	SHIPPING CONTAINER
Federal Express ☐ UPS ☐ Hand Delivery ☐	Ice Chest ☐ None ☐
BC Lab Field Service ☐ Other ☐ (Specify)_____	Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☐ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☐ YES ☐ NO

Emissivity: 0.95 Container: ptpe Thermometer ID: IR#03

Temperature: A 9.4 °C / C 9.4 °C 1/14/14

Date/Time 1/14/11:01

Analyst Init: SG

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE Metal	A	A	A	A						
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: RML Date/Time: 1-14-11-1120

A = Actual / C = Corrected

[H:\DOCS\WP60\LAB_DOCS\FORMS\SAMREC2.WPD]

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1100824-01	**COC Number:**	---	**Receive Date:** 01/14/2011 07:50
	Project Number:	3737	**Sampling Date:** 01/07/2011 13:25
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3Bd3	**Lab Matrix:** Solids
	Sampled By:	DECJ	**Sample Type:** Soil
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-3B
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1100824-02	**COC Number:**	---	**Receive Date:** 01/14/2011 07:50
	Project Number:	3737	**Sampling Date:** 01/07/2011 16:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1Bd3	**Lab Matrix:** Solids
	Sampled By:	DECJ	**Sample Type:** Soil
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-1B
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1100824-03	**COC Number:**	---	**Receive Date:** 01/14/2011 07:50
	Project Number:	3737	**Sampling Date:** 01/08/2011 08:11
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-2Bd3	**Lab Matrix:** Solids
	Sampled By:	DECJ	**Sample Type:** Soil
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-2B
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1100824-04

COC Number: ---
Project Number: 3737
Sampling Location: ---
Sampling Point: MW-2Bd5
Sampled By: DECJ

Receive Date: 01/14/2011 07:50
Sampling Date: 01/08/2011 08:30
Sample Depth: ---
Lab Matrix: Solids
Sample Type: Soil
Delivery Work Order:
Global ID: T06019745736
Location ID (FieldPoint): MW-2B
Matrix: SO
Sample QC Type (SACode): CS
Cooler ID:

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-01 | **Client Sample Name:** 3737, MW-3Bd3, 1/7/2011 1:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-01 | **Client Sample Name:** 3737, MW-3Bd3, 1/7/2011 1:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-01 | **Client Sample Name:** 3737, MW-3Bd3, 1/7/2011 1:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**1.5**	**mg/kg**	**0.20**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	93.8	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.3	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/19/11	01/19/11 19:17	ADC	MS-V2	1	BUA0814

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1100824-01 | **Client Sample Name:** 3737, MW-3Bd3, 1/7/2011 1:25:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	77.3	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/20/11	01/28/11 08:51	EJB	GC-2	0.966	BUA1746

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-02 | **Client Sample Name:** 3737, MW-1Bd3, 1/7/2011 4:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Bromobenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Bromochloromethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Bromodichloromethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Bromoform	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Bromomethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
n-Butylbenzene	**0.27**	**mg/kg**	**0.050**	**EPA-8260**	**ND**	**A01**	1
sec-Butylbenzene	**0.093**	**mg/kg**	**0.050**	**EPA-8260**	**ND**	**A01**	1
tert-Butylbenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Chlorobenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Chloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Chloroform	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Chloromethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Dibromochloromethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Dibromomethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,1-Dichloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,1-Dichloroethene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
cis-1,2-Dichloroethene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
trans-1,2-Dichloroethene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Total 1,2-Dichloroethene	ND	mg/kg	0.10	EPA-8260	ND	A01	1
1,2-Dichloropropane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	mg/kg	0.050	EPA-8260	ND	A01	1

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-02 | **Client Sample Name:** 3737, MW-1Bd3, 1/7/2011 4:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
cis-1,3-Dichloropropene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Total 1,3-Dichloropropene	ND	mg/kg	0.10	EPA-8260	ND	A01	1
Ethylbenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Hexachlorobutadiene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Isopropylbenzene	**0.10**	**mg/kg**	**0.050**	**EPA-8260**	**ND**	**A01**	1
p-Isopropyltoluene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Methylene chloride	ND	mg/kg	0.10	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Naphthalene	**0.065**	**mg/kg**	**0.050**	**EPA-8260**	**ND**	**A01**	1
n-Propylbenzene	**0.28**	**mg/kg**	**0.050**	**EPA-8260**	**ND**	**A01**	1
Styrene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Tetrachloroethene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2,3-Trichlorobenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Trichloroethene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Trichlorofluoromethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2,4-Trimethylbenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,3,5-Trimethylbenzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Vinyl chloride	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Total Xylenes	ND	mg/kg	0.10	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.050	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	10	EPA-8260	ND	A01	1

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-02 | **Client Sample Name:** 3737, MW-1Bd3, 1/7/2011 4:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**29**	**mg/kg**	**10**	**Luft-GC/MS**	**ND**	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	85.0	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	88.2	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	96.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.0	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.4	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/19/11	01/21/11 02:52	ADC	MS-V2	10	BUA0814
2	EPA-8260	01/19/11	01/21/11 11:56	ADC	MS-V2	50	BUA0814

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1100824-02 | **Client Sample Name:** 3737, MW-1Bd3, 1/7/2011 4:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**4.3**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**	**A52**	1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	74.8	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/20/11	01/28/11 09:14	EJB	GC-2	0.944	BUA1746

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-03 | **Client Sample Name:** 3737, MW-2Bd3, 1/8/2011 8:11:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromochloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromodichloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromoform	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromomethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
n-Butylbenzene	**0.25**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
sec-Butylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
tert-Butylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloroform	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dibromochloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dibromomethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1-Dichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
cis-1,2-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
trans-1,2-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total 1,2-Dichloroethene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-03 | **Client Sample Name:** 3737, MW-2Bd3, 1/8/2011 8:11:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
cis-1,3-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total 1,3-Dichloropropene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Hexachlorobutadiene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Isopropylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
p-Isopropyltoluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Methylene chloride	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Naphthalene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
n-Propylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Styrene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Tetrachloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,3-Trichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Trichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Trichlorofluoromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,4-Trimethylbenzene	**0.52**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
1,3,5-Trimethylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Vinyl chloride	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total Xylenes	ND	mg/kg	0.50	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	50	EPA-8260	ND	A01	1

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-03 | **Client Sample Name:** 3737, MW-2Bd3, 1/8/2011 8:11:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**140**	**mg/kg**	**20**	**Luft-GC/MS**	**ND**	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	83.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	89.3	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	97.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.5	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.4	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/19/11	01/19/11 20:09	ADC	MS-V2	50	BUA0814
2	EPA-8260	01/19/11	01/21/11 02:01	ADC	MS-V2	100	BUA0814

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Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1100824-03 | **Client Sample Name:** 3737, MW-2Bd3, 1/8/2011 8:11:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**390**	**mg/kg**	**200**	**Luft/FFP**	**ND**	**A01,A52**	1
TPH - Motor Oil	ND	mg/kg	1000	Luft/FFP	ND	A01,A57	1
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/20/11	02/01/11 00:51	EJB	GC-2	96.284	BUA1746

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Project Number: 000010122363-00015
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-04 | **Client Sample Name:** 3737, MW-2Bd5, 1/8/2011 8:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.40**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
Bromobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromochloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromodichloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromoform	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromomethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
n-Butylbenzene	**0.44**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
sec-Butylbenzene	**0.34**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
tert-Butylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloroform	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dibromochloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dibromomethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1-Dichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
cis-1,2-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
trans-1,2-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total 1,2-Dichloroethene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-04 | **Client Sample Name:** 3737, MW-2Bd5, 1/8/2011 8:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
cis-1,3-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total 1,3-Dichloropropene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethylbenzene	**1.5**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
Hexachlorobutadiene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Isopropylbenzene	**0.46**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
p-Isopropyltoluene	**0.41**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
Methylene chloride	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Naphthalene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
n-Propylbenzene	**0.86**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
Styrene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Tetrachloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,3-Trichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Trichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Trichlorofluoromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,4-Trimethylbenzene	**2.0**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
1,3,5-Trimethylbenzene	**0.65**	**mg/kg**	**0.25**	**EPA-8260**	**ND**	**A01**	1
Vinyl chloride	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total Xylenes	**0.59**	**mg/kg**	**0.50**	**EPA-8260**	**ND**	**A01**	1
t-Amyl Methyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	50	EPA-8260	ND	A01	1

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Project: 3737
Project Number: 000010122363-00015
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1100824-04 | **Client Sample Name:** 3737, MW-2Bd5, 1/8/2011 8:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**460**	**mg/kg**	**40**	**Luft-GC/MS**	**ND**	**A01**	2
1,2-Dichloroethane-d4 (Surrogate)	83.8	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	90.5	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.2	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	113	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/19/11	01/19/11 20:35	ADC	MS-V2	50	BUA0814
2	EPA-8260	01/19/11	01/21/11 02:26	ADC	MS-V2	200	BUA0814

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Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1100824-04 | **Client Sample Name:** 3737, MW-2Bd5, 1/8/2011 8:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**520**	**mg/kg**	**200**	**Luft/FFP**	**ND**	**A01,A52**	1
TPH - Motor Oil	ND	mg/kg	1000	Luft/FFP	ND	A01,A57	1
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/20/11	02/01/11 00:28	EJB	GC-2	94.059	BUA1746

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Project: 3737
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA0814						
Benzene	BUA0814-BLK1	ND	mg/kg	0.0050		
Bromobenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
Bromochloromethane	BUA0814-BLK1	ND	mg/kg	0.0050		
Bromodichloromethane	BUA0814-BLK1	ND	mg/kg	0.0050		
Bromoform	BUA0814-BLK1	ND	mg/kg	0.0050		
Bromomethane	BUA0814-BLK1	ND	mg/kg	0.0050		
n-Butylbenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
sec-Butylbenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
tert-Butylbenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
Carbon tetrachloride	BUA0814-BLK1	ND	mg/kg	0.0050		
Chlorobenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
Chloroethane	BUA0814-BLK1	ND	mg/kg	0.0050		
Chloroform	BUA0814-BLK1	ND	mg/kg	0.0050		
Chloromethane	BUA0814-BLK1	ND	mg/kg	0.0050		
2-Chlorotoluene	BUA0814-BLK1	ND	mg/kg	0.0050		
4-Chlorotoluene	BUA0814-BLK1	ND	mg/kg	0.0050		
Dibromochloromethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,2-Dibromo-3-chloropropane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BUA0814-BLK1	ND	mg/kg	0.0050		
Dibromomethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,2-Dichlorobenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
1,3-Dichlorobenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
1,4-Dichlorobenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
Dichlorodifluoromethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,1-Dichloroethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,1-Dichloroethene	BUA0814-BLK1	ND	mg/kg	0.0050		
cis-1,2-Dichloroethene	BUA0814-BLK1	ND	mg/kg	0.0050		
trans-1,2-Dichloroethene	BUA0814-BLK1	ND	mg/kg	0.0050		
Total 1,2-Dichloroethene	BUA0814-BLK1	ND	mg/kg	0.010		
1,2-Dichloropropane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,3-Dichloropropane	BUA0814-BLK1	ND	mg/kg	0.0050		
2,2-Dichloropropane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,1-Dichloropropene	BUA0814-BLK1	ND	mg/kg	0.0050		

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Project Number: 000010122363-00015
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA0814						
cis-1,3-Dichloropropene	BUA0814-BLK1	ND	mg/kg	0.0050		
trans-1,3-Dichloropropene	BUA0814-BLK1	ND	mg/kg	0.0050		
Total 1,3-Dichloropropene	BUA0814-BLK1	ND	mg/kg	0.010		
Ethylbenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
Hexachlorobutadiene	BUA0814-BLK1	ND	mg/kg	0.0050		
Isopropylbenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
p-Isopropyltoluene	BUA0814-BLK1	ND	mg/kg	0.0050		
Methylene chloride	BUA0814-BLK1	ND	mg/kg	0.010		
Methyl t-butyl ether	BUA0814-BLK1	ND	mg/kg	0.0050		
Naphthalene	BUA0814-BLK1	ND	mg/kg	0.0050		
n-Propylbenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
Styrene	BUA0814-BLK1	ND	mg/kg	0.0050		
1,1,1,2-Tetrachloroethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,1,2,2-Tetrachloroethane	BUA0814-BLK1	ND	mg/kg	0.0050		
Tetrachloroethene	BUA0814-BLK1	ND	mg/kg	0.0050		
Toluene	BUA0814-BLK1	ND	mg/kg	0.0050		
1,2,3-Trichlorobenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
1,2,4-Trichlorobenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
1,1,1-Trichloroethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,1,2-Trichloroethane	BUA0814-BLK1	ND	mg/kg	0.0050		
Trichloroethene	BUA0814-BLK1	ND	mg/kg	0.0050		
Trichlorofluoromethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,2,3-Trichloropropane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,1,2-Trichloro-1,2,2-trifluoroethane	BUA0814-BLK1	ND	mg/kg	0.0050		
1,2,4-Trimethylbenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
1,3,5-Trimethylbenzene	BUA0814-BLK1	ND	mg/kg	0.0050		
Vinyl chloride	BUA0814-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BUA0814-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BUA0814-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BUA0814-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BUA0814-BLK1	ND	mg/kg	0.0050		
Ethanol	BUA0814-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BUA0814-BLK1	ND	mg/kg	0.0050		
Total Purgeable Petroleum Hydrocarbons	BUA0814-BLK1	ND	mg/kg	0.20		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA0814						
1,2-Dichloroethane-d4 (Surrogate)	BUA0814-BLK1	90.3	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUA0814-BLK1	98.3	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUA0814-BLK1	97.3	%	74 - 121 (LCL - UCL)		

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Project Number: 000010122363-00015
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUA0814										
Benzene	BUA0814-BS1	LCS	0.12766	0.12500	mg/kg	102		70 - 130		
Bromodichloromethane	BUA0814-BS1	LCS	0.10979	0.12500	mg/kg	87.8		70 - 130		
Chlorobenzene	BUA0814-BS1	LCS	0.12115	0.12500	mg/kg	96.9		70 - 130		
Chloroethane	BUA0814-BS1	LCS	0.11627	0.12500	mg/kg	93.0		70 - 130		
1,4-Dichlorobenzene	BUA0814-BS1	LCS	0.12424	0.12500	mg/kg	99.4		70 - 130		
1,1-Dichloroethane	BUA0814-BS1	LCS	0.11863	0.12500	mg/kg	94.9		70 - 130		
1,1-Dichloroethene	BUA0814-BS1	LCS	0.12650	0.12500	mg/kg	101		70 - 130		
Toluene	BUA0814-BS1	LCS	0.11614	0.12500	mg/kg	92.9		70 - 130		
Trichloroethene	BUA0814-BS1	LCS	0.11557	0.12500	mg/kg	92.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUA0814-BS1	LCS	0.046877	0.050000	mg/kg	93.8		70 - 121		
Toluene-d8 (Surrogate)	BUA0814-BS1	LCS	0.049442	0.050000	mg/kg	98.9		81 - 117		
4-Bromofluorobenzene (Surrogate)	BUA0814-BS1	LCS	0.047337	0.050000	mg/kg	94.7		74 - 121		

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Reported: 02/01/2011 15:45
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUA0814	Used client sample: N										
Benzene	MS	1100204-10	ND	0.11238	0.12500	mg/kg		89.9		70 - 130	
	MSD	1100204-10	ND	0.12983	0.12500	mg/kg	14.4	104	20	70 - 130	
Bromodichloromethane	MS	1100204-10	ND	0.10053	0.12500	mg/kg		80.4		70 - 130	
	MSD	1100204-10	ND	0.11205	0.12500	mg/kg	10.8	89.6	20	70 - 130	
Chlorobenzene	MS	1100204-10	ND	0.11144	0.12500	mg/kg		89.2		70 - 130	
	MSD	1100204-10	ND	0.12403	0.12500	mg/kg	10.7	99.2	20	70 - 130	
Chloroethane	MS	1100204-10	ND	0.10246	0.12500	mg/kg		82.0		70 - 130	
	MSD	1100204-10	ND	0.11711	0.12500	mg/kg	13.3	93.7	20	70 - 130	
1,4-Dichlorobenzene	MS	1100204-10	ND	0.11252	0.12500	mg/kg		90.0		70 - 130	
	MSD	1100204-10	ND	0.13133	0.12500	mg/kg	15.4	105	20	70 - 130	
1,1-Dichloroethane	MS	1100204-10	ND	0.10358	0.12500	mg/kg		82.9		70 - 130	
	MSD	1100204-10	ND	0.12054	0.12500	mg/kg	15.1	96.4	20	70 - 130	
1,1-Dichloroethene	MS	1100204-10	ND	0.11143	0.12500	mg/kg		89.1		70 - 130	
	MSD	1100204-10	ND	0.12907	0.12500	mg/kg	14.7	103	20	70 - 130	
Toluene	MS	1100204-10	ND	0.10640	0.12500	mg/kg		85.1		70 - 130	
	MSD	1100204-10	ND	0.11889	0.12500	mg/kg	11.1	95.1	20	70 - 130	
Trichloroethene	MS	1100204-10	ND	0.10589	0.12500	mg/kg		84.7		70 - 130	
	MSD	1100204-10	ND	0.11836	0.12500	mg/kg	11.1	94.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1100204-10	ND	0.045214	0.050000	mg/kg		90.4		70 - 121	
	MSD	1100204-10	ND	0.045320	0.050000	mg/kg	0.2	90.6		70 - 121	
Toluene-d8 (Surrogate)	MS	1100204-10	ND	0.049376	0.050000	mg/kg		98.8		81 - 117	
	MSD	1100204-10	ND	0.049363	0.050000	mg/kg	0.0	98.7		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1100204-10	ND	0.046547	0.050000	mg/kg		93.1		74 - 121	
	MSD	1100204-10	ND	0.046662	0.050000	mg/kg	0.2	93.3		74 - 121	

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA1746						
TPH - Diesel (FFP)	BUA1746-BLK1	ND	mg/kg	2.0		
TPH - Motor Oil	BUA1746-BLK1	ND	mg/kg	10		
Tetracosane (Surrogate)	BUA1746-BLK1	69.0	%	20 - 145 (LCL - UCL)		

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUA1746										
TPH - Diesel (FFP)	BUA1746-BS1	LCS	13.160	16.556	mg/kg	79.5		50 - 136		
Tetracosane (Surrogate)	BUA1746-BS1	LCS	0.47949	0.66225	mg/kg	72.4		20 - 145		

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUA1746	Used client sample: Y - Description: MW-3Bd3, 01/07/2011 13:25										
TPH - Diesel (FFP)	MS	1100824-01	ND	14.508	16.949	mg/kg		85.6		40 - 137	
	MSD	1100824-01	ND	14.218	16.949	mg/kg	2.0	83.9	30	40 - 137	
Tetracosane (Surrogate)	MS	1100824-01	ND	0.48977	0.67797	mg/kg		72.2		20 - 145	
	MSD	1100824-01	ND	0.49587	0.67797	mg/kg	1.2	73.1		20 - 145	

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/01/2011 15:45
Project: 3737
Project Number: 000010122363-00015
Project Manager: Lia Holden

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A17	Surrogate not reportable due to sample dilution.
A52	Chromatogram not typical of diesel.
A57	Chromatogram not typical of motor oil.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/14/2011

Lia Holden

Antea Group
312 Piercy Rd
San Jose, CA 95138

RE: 3737
BC Work Order: 1101168
Invoice ID: B095119

Enclosed are the results of analyses for samples received by the laboratory on 1/19/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Table of Contents

Chain Of Custody Record

BC Laboratories
4100 Atlas Court, Bakersfield, CA
(661) 327-4911 (661) 327-1916 fax

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

Requisition Number: 000010122363-00015
PO Number: 4513949114
DATE: 1/15/11
PAGE: 1 of 1

SAMPLING COMPANY: Antea™Group	Valid Value ID:
CONOCOPHILLIPS SITE NUMBER: 3737	GLOBAL ID NO.: T06019745736
ADDRESS: 312 Piercy Road, San Jose, CA	SITE ADDRESS (Street and City): 1400 Powell Street, Emeryville, California
ConocoPhillips Manager: Ted Moise	
PROJECT CONTACT (Hardcopy or PDF Report to): Lia Holden	EDF DELIVERABLE TO (RP or Designee): Lia Holden
PHONE NO.: 408-826-1863	E-MAIL: Ted.Moise@contractor.conocophillips.com
LAB USE ONLY: 11-01168	
TELEPHONE: 408-826-1863	FAX: 408-225-8506
E-MAIL: LHolden@deltaenv.com	
SAMPLER NAME(S) (Print): Nadine Periat	CONSULTANT PROJECT NUMBER: 3737

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

PLEASE CC RESULTS TO Nadine.Periat@Anteagroup.com

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH-G, BTEX, MTBE by EPA Method 8260B	Full VOC Scan including all fuel Oxygenates and Lead Scavengers by EPA 8260	TPH-D, TPH-Motor Oil by EPA 8015M with Silica Gel Cleanup	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
1	MW-1B	MW-1Bd5.5	1/15/11	12:03	S	1	X	X	X	
2	MW-1B	MW-1Bd12	1/15/11	12:18	S	1	X	X	X	
3	MW-1B	MW-1Bd19	1/15/11	12:34	S	1	X	X	X	
4	MW-2B	MW-2Bd7.5	1/14/11	11:34	S	1	X	X	X	
5	MW-2B	MW-2Bd12	1/14/11	11:45	S	1	X	X	X	
6	MW-2B	MW-2B19.5	1/14/11	12:21	S	1	X	X	X	
7	MW-3B	MW-3Bd6	1/15/11	7:31	S	1	X	X	X	
8	MW-3B	MW-3Bd13	1/15/11	7:54	S	1	X	X	X	
9	MW-3B	MW-3Bd18	1/15/11	8:41	S	1	X	X	X	

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Nadine [signature]	[signature] P.BINS BCL	1/19/11	1515
[signature] BCL 1/19/11 1815	R.L.Ruz [signature]	1-19-11	1850
R.L.Ruz [signature] 1-19-11 2245		1/19/11	2245

9/19/03 Revision

Chain Of Custody Record

BC Laboratories
4100 Atlas Court, Bakersfield, CA
(661) 327-4911 (661) 327-1918 fax

INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

Requesition Number: 000010122363-00015
PO Number: 4513949114
DATE: 1/15/11
PAGE: 1 of 1

SAMPLING COMPANY: Antea™Group	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 3737	GLOBAL ID NO.: T06019745736
ADDRESS: 312 Piercy Road, San Jose, CA		SITE ADDRESS (Street and City): 1400 Powell Street, Emeryville, California	ConocoPhillips Manager: Ted Moise
PROJECT CONTACT (Hardcopy or PDF Report to): Lia Holden		EDF DELIVERABLE TO (RP or Designee): Lia Holden	PHONE NO.: 408-826-1863
TELEPHONE: 408-826-1863 / FAX: 408-225-8506	E-MAIL: Lholden@tetratech.com	E-MAIL: Ted.Moise@conocophillips.com	LAB USE ONLY: 11-01168
SAMPLER NAME(S) (Print): Nadine Periat	CONSULTANT PROJECT NUMBER: 3737		

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

PLEASE CC RESULTS TO Nadine.Periat@Anteagroup.com

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Field Point Name	Sample ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH-G, BTEX, MTBE by EPA Method 8260B	Full VOC Scan including all fuel Oxygenates and Lead Scavengers by EPA 8260	TPH-D, TPH-Motor Oil by EPA 8015M with Silica Gel Cleanup	Total Lead
1D	COMP ABCD	COMP ABCD	1/15/11	2:30	S	4	X	X	X	X

FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes

TEMPERATURE ON RECEIPT C°

Relinquished by: (Signature)	Received by: (Signature)	Date: 1/19/11	Time: 1515
Relinquished by: (Signature) BCL 1/19/11 1815	Received by: (Signature)	Date: 1-19-11	Time: 1850
Relinquished by: (Signature) 1-19-11 2245	Received by: (Signature)	Date: 1/19/11	Time: 2245

PBINS BCL

9/18/03 Revision

Chain of Custody and Cooler Receipt Form for 1101168 Page 3 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 1

Submission #: 11-01168

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☑ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: QT Thermometer ID: 103

Temperature: A 2.9 °C / C 2.9 °C

Date/Time 1-19-11 2244

Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 515										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ JAR										
32 OZ JAR	A	A	A	A	A	A	A	A	A	ARCT
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: S Date/Time: 1/20/11 1807

A = Actual C = Corrected

(P:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC1.WPD)

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1101168-01	**COC Number:**	---	**Receive Date:** 01/19/2011 22:45
	Project Number:	3737	**Sampling Date:** 01/15/2011 12:08
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1Bd5.5	**Lab Matrix:** Solids
	Sampled By:	DECJ	**Sample Type:** Soil
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-1B
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1101168-02	**COC Number:**	---	**Receive Date:** 01/19/2011 22:45
	Project Number:	3737	**Sampling Date:** 01/15/2011 12:18
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1Bd12	**Lab Matrix:** Solids
	Sampled By:	DECJ	**Sample Type:** Soil
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-1B
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1101168-03	**COC Number:**	---	**Receive Date:** 01/19/2011 22:45
	Project Number:	3737	**Sampling Date:** 01/15/2011 12:34
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1Bd19	**Lab Matrix:** Solids
	Sampled By:	DECJ	**Sample Type:** Soil
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-1B
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1101168-04	**COC Number:**	---	**Receive Date:**	01/19/2011 22:45
	Project Number:	3737	**Sampling Date:**	01/14/2011 11:34
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2Bd7.5	**Lab Matrix:**	Solids
	Sampled By:	DECJ	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-2B	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1101168-05	**COC Number:**	---	**Receive Date:**	01/19/2011 22:45
	Project Number:	3737	**Sampling Date:**	01/14/2011 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2Bd12	**Lab Matrix:**	Solids
	Sampled By:	DECJ	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-2B	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1101168-06	**COC Number:**	---	**Receive Date:**	01/19/2011 22:45
	Project Number:	3737	**Sampling Date:**	01/14/2011 12:21
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-2Bd19.5	**Lab Matrix:**	Solids
	Sampled By:	DECJ	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-2B	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1101168-07	**COC Number:**	---	**Receive Date:**	01/19/2011 22:45
	Project Number:	3737	**Sampling Date:**	01/15/2011 07:31
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3Bd6	**Lab Matrix:**	Solids
	Sampled By:	DECJ	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-3B	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1101168-08	**COC Number:**	---	**Receive Date:**	01/19/2011 22:45
	Project Number:	3737	**Sampling Date:**	01/15/2011 07:54
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3Bd13	**Lab Matrix:**	Solids
	Sampled By:	DECJ	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-3B	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1101168-09	**COC Number:**	---	**Receive Date:**	01/19/2011 22:45
	Project Number:	3737	**Sampling Date:**	01/15/2011 08:41
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3Bd18	**Lab Matrix:**	Solids
	Sampled By:	DECJ	**Sample Type:**	Soil
			Delivery Work Order:	
			Global ID: T06019745736	
			Location ID (FieldPoint): MW-3B	
			Matrix: SO	
			Sample QC Type (SACode): CS	
			Cooler ID:	

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1101168-10	**COC Number:**	---	**Receive Date:**	01/19/2011 22:45
	Project Number:	3737	**Sampling Date:**	01/15/2011 02:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Comp ABCD	**Lab Matrix:**	Solids
	Sampled By:	DECJ	**Sample Type:**	Soil

Delivery Work Order:
Global ID: T06019745736
Location ID (FieldPoint): COMP
Matrix: SO
Sample QC Type (SACode): CS
Cooler ID:

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-01 | **Client Sample Name:** 3737, MW-1Bd5.5, 1/15/2011 12:08:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Bromobenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Bromochloromethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Bromodichloromethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Bromoform	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Bromomethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
n-Butylbenzene	**0.21**	**mg/kg**	**0.12**	**EPA-8260**	**ND**	**A01**	1
sec-Butylbenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
tert-Butylbenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Chlorobenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Chloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Chloroform	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Chloromethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Dibromochloromethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Dibromomethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,1-Dichloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,1-Dichloroethene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
cis-1,2-Dichloroethene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
trans-1,2-Dichloroethene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Total 1,2-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichloropropane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	mg/kg	0.12	EPA-8260	ND	A01	1

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-01 | **Client Sample Name:** 3737, MW-1Bd5.5, 1/15/2011 12:08:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
cis-1,3-Dichloropropene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Total 1,3-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Ethylbenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Hexachlorobutadiene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Isopropylbenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
p-Isopropyltoluene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Methylene chloride	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Naphthalene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
n-Propylbenzene	**0.26**	**mg/kg**	**0.12**	**EPA-8260**	**ND**	**A01**	1
Styrene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Tetrachloroethene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2,3-Trichlorobenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Trichloroethene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Trichlorofluoromethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2,4-Trimethylbenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,3,5-Trimethylbenzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Vinyl chloride	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Total Xylenes	ND	mg/kg	0.25	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	1.2	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	25	EPA-8260	ND	A01	1

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-01 | **Client Sample Name:** 3737, MW-1Bd5.5, 1/15/2011 12:08:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**37**	**mg/kg**	**5.0**	**Luft-GC/MS**	**ND**	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	123	%	70 - 121 (LCL - UCL)	EPA-8260		A19,S09	1
Toluene-d8 (Surrogate)	114	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	126	%	74 - 121 (LCL - UCL)	EPA-8260		A19,S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/29/11 13:16	MCQ	MS-V3	25	BUA1677

Antea Group
312 Piercy Rd
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-01 | **Client Sample Name:** 3737, MW-1Bd5.5, 1/15/2011 12:08:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**7.0**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	**21**	**mg/kg**	**10**	**Luft/FFP**	**ND**		1
Tetracosane (Surrogate)	99.2	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 19:36	MWB	GC-13	0.964	BUB0462

Antea Group
312 Piercy Rd
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-02 | **Client Sample Name:** 3737, MW-1Bd12, 1/15/2011 12:18:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-02 | **Client Sample Name:** 3737, MW-1Bd12, 1/15/2011 12:18:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	**0.0055**	**mg/kg**	**0.0050**	**EPA-8260**	**ND**		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-02 | **Client Sample Name:** 3737, MW-1Bd12, 1/15/2011 12:18:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**0.36**	**mg/kg**	**0.20**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/28/11 23:39	MCQ	MS-V3	1	BUA1677

Antea Group
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-02 | **Client Sample Name:** 3737, MW-1Bd12, 1/15/2011 12:18:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**4.1**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	95.3	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 19:59	MWB	GC-13	0.938	BUB0462

Antea Group
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-03 | **Client Sample Name:** 3737, MW-1Bd19, 1/15/2011 12:34:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-03 | **Client Sample Name:** 3737, MW-1Bd19, 1/15/2011 12:34:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-03 | **Client Sample Name:** 3737, MW-1Bd19, 1/15/2011 12:34:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	119	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/29/11 05:50	MCQ	MS-V3	1	BUA1677

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312 Piercy Rd
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-03 | **Client Sample Name:** 3737, MW-1Bd19, 1/15/2011 12:34:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**2.7**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	90.9	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 20:22	MWB	GC-13	1	BUB0462

Antea Group
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-04 | **Client Sample Name:** 3737, MW-2Bd7.5, 1/14/2011 11:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.0081**	**mg/kg**	**0.0050**	**EPA-8260**	**ND**		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-04 | **Client Sample Name:** 3737, MW-2Bd7.5, 1/14/2011 11:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	**0.0054**	**mg/kg**	**0.0050**	**EPA-8260**	**ND**		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	**0.059**	**mg/kg**	**0.0050**	**EPA-8260**	**ND**		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-04 | **Client Sample Name:** 3737, MW-2Bd7.5, 1/14/2011 11:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**2.3**	**mg/kg**	**0.20**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	112	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/28/11 17:55	MCQ	MS-V3	1	BUA1677

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-04 | **Client Sample Name:** 3737, MW-2Bd7.5, 1/14/2011 11:34:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**8.8**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	90.3	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 20:45	MWB	GC-13	0.960	BUB0462

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-05 | **Client Sample Name:** 3737, MW-2Bd12, 1/14/2011 11:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-05 | **Client Sample Name:** 3737, MW-2Bd12, 1/14/2011 11:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	**0.0050**	**mg/kg**	**0.0050**	**EPA-8260**	**ND**		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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312 Piercy Rd
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-05 | **Client Sample Name:** 3737, MW-2Bd12, 1/14/2011 11:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	119	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/28/11 18:22	MCQ	MS-V3	1	BUA1677

Antea Group
312 Piercy Rd
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-05 | **Client Sample Name:** 3737, MW-2Bd12, 1/14/2011 11:45:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**3.1**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	108	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 21:08	MWB	GC-13	0.980	BUB0462

Antea Group
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-06 | **Client Sample Name:** 3737, MW-2Bd19.5, 1/14/2011 12:21:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-06 | **Client Sample Name:** 3737, MW-2Bd19.5, 1/14/2011 12:21:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-06 | **Client Sample Name:** 3737, MW-2Bd19.5, 1/14/2011 12:21:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	124	%	70 - 121 (LCL - UCL)	EPA-8260		S09	1
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/28/11 18:48	MCQ	MS-V3	1	BUA1677

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312 Piercy Rd
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-06 | **Client Sample Name:** 3737, MW-2Bd19.5, 1/14/2011 12:21:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**2.9**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	74.4	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 22:39	MWB	GC-13	0.990	BUB0462

Antea Group
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San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-07 | **Client Sample Name:** 3737, MW-3Bd6, 1/15/2011 7:31:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromochloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromodichloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromoform	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Bromomethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
n-Butylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
sec-Butylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
tert-Butylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloroform	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Chloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dibromochloromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dibromomethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1-Dichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
cis-1,2-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
trans-1,2-Dichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total 1,2-Dichloroethene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1

Antea Group
312 Piercy Rd
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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-07 | **Client Sample Name:** 3737, MW-3Bd6, 1/15/2011 7:31:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
cis-1,3-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total 1,3-Dichloropropene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Hexachlorobutadiene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Isopropylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
p-Isopropyltoluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Methylene chloride	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Naphthalene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
n-Propylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Styrene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Tetrachloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,3-Trichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Trichloroethene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Trichlorofluoromethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2,4-Trimethylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,3,5-Trimethylbenzene	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Vinyl chloride	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total Xylenes	ND	mg/kg	0.50	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	50	EPA-8260	ND	A01	1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-07 | **Client Sample Name:** 3737, MW-3Bd6, 1/15/2011 7:31:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**76**	**mg/kg**	**10**	**Luft-GC/MS**	**ND**	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	121	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	107	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/29/11 14:08	MCQ	MS-V3	50	BUA1677

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-07 | **Client Sample Name:** 3737, MW-3Bd6, 1/15/2011 7:31:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**5.8**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	**14**	**mg/kg**	**10**	**Luft/FFP**	**ND**		1
Tetracosane (Surrogate)	84.7	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 23:01	MWB	GC-13	0.941	BUB0462

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-08 | **Client Sample Name:** 3737, MW-3Bd13, 1/15/2011 7:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-08 | **Client Sample Name:** 3737, MW-3Bd13, 1/15/2011 7:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-08 | **Client Sample Name:** 3737, MW-3Bd13, 1/15/2011 7:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**0.48**	**mg/kg**	**0.20**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	137	%	70 - 121 (LCL - UCL)	EPA-8260		A19,S09	1
Toluene-d8 (Surrogate)	105	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	105	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/29/11 00:33	MCQ	MS-V3	1	BUA1677

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-08 | **Client Sample Name:** 3737, MW-3Bd13, 1/15/2011 7:54:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**2.9**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	82.7	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 23:24	MWB	GC-13	0.993	BUB0462

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-09 | **Client Sample Name:** 3737, MW-3Bd18, 1/15/2011 8:41:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-09 | **Client Sample Name:** 3737, MW-3Bd18, 1/15/2011 8:41:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-09 | **Client Sample Name:** 3737, MW-3Bd18, 1/15/2011 8:41:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	mg/kg	0.20	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	129	%	70 - 121 (LCL - UCL)	EPA-8260		A19,S09	1
Toluene-d8 (Surrogate)	99.0	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/29/11 00:59	MCQ	MS-V3	1	BUA1677

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-09 | **Client Sample Name:** 3737, MW-3Bd18, 1/15/2011 8:41:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		1
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
Tetracosane (Surrogate)	77.4	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/08/11 23:46	MWB	GC-13	0.967	BUB0462

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-10 | **Client Sample Name:** 3737, Comp ABCD, 1/15/2011 2:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromodichloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromoform	ND	mg/kg	0.0050	EPA-8260	ND		1
Bromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
sec-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
tert-Butylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Carbon tetrachloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Chlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloroform	ND	mg/kg	0.0050	EPA-8260	ND		1
Chloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
2-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
4-Chlorotoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromochloromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Dibromomethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Dichlorodifluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	mg/kg	0.010	EPA-8260	ND		1
1,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
2,2-Dichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-10 | **Client Sample Name:** 3737, Comp ABCD, 1/15/2011 2:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	mg/kg	0.010	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Hexachlorobutadiene	ND	mg/kg	0.0050	EPA-8260	ND		1
Isopropylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
p-Isopropyltoluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methylene chloride	ND	mg/kg	0.010	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Naphthalene	ND	mg/kg	0.0050	EPA-8260	ND		1
n-Propylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Styrene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Tetrachloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichloroethene	ND	mg/kg	0.0050	EPA-8260	ND		1
Trichlorofluoromethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Vinyl chloride	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	ND	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		1

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312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101168-10 | **Client Sample Name:** 3737, Comp ABCD, 1/15/2011 2:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**0.75**	**mg/kg**	**0.20**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	120	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	107	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	01/27/11	01/29/11 15:01	MCQ	MS-V3	1	BUA1677

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101168-10 | **Client Sample Name:** 3737, Comp ABCD, 1/15/2011 2:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**10**	**mg/kg**	**2.0**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	**14**	**mg/kg**	**10**	**Luft/FFP**	**ND**		1
Tetracosane (Surrogate)	81.7	%	20 - 145 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	01/26/11	02/09/11 00:09	MWB	GC-13	0.967	BUB0462

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Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Total Concentrations (TTLC)

BCL Sample ID: 1101168-10 | **Client Sample Name:** 3737, Comp ABCD, 1/15/2011 2:30:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Lead	**4.9**	**mg/kg**	**2.5**	**EPA-6010B**	**ND**		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	01/26/11	01/27/11 09:00	ARD	PE-OP2	1	BUA1565

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Reported: 02/14/2011 10:30
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Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA1677						
Benzene	BUA1677-BLK1	ND	mg/kg	0.0050		
Bromobenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
Bromochloromethane	BUA1677-BLK1	ND	mg/kg	0.0050		
Bromodichloromethane	BUA1677-BLK1	ND	mg/kg	0.0050		
Bromoform	BUA1677-BLK1	ND	mg/kg	0.0050		
Bromomethane	BUA1677-BLK1	ND	mg/kg	0.0050		
n-Butylbenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
sec-Butylbenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
tert-Butylbenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
Carbon tetrachloride	BUA1677-BLK1	ND	mg/kg	0.0050		
Chlorobenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
Chloroethane	BUA1677-BLK1	ND	mg/kg	0.0050		
Chloroform	BUA1677-BLK1	ND	mg/kg	0.0050		
Chloromethane	BUA1677-BLK1	ND	mg/kg	0.0050		
2-Chlorotoluene	BUA1677-BLK1	ND	mg/kg	0.0050		
4-Chlorotoluene	BUA1677-BLK1	ND	mg/kg	0.0050		
Dibromochloromethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,2-Dibromo-3-chloropropane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BUA1677-BLK1	ND	mg/kg	0.0050		
Dibromomethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,2-Dichlorobenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
1,3-Dichlorobenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
1,4-Dichlorobenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
Dichlorodifluoromethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,1-Dichloroethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,1-Dichloroethene	BUA1677-BLK1	ND	mg/kg	0.0050		
cis-1,2-Dichloroethene	BUA1677-BLK1	ND	mg/kg	0.0050		
trans-1,2-Dichloroethene	BUA1677-BLK1	ND	mg/kg	0.0050		
Total 1,2-Dichloroethene	BUA1677-BLK1	ND	mg/kg	0.010		
1,2-Dichloropropane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,3-Dichloropropane	BUA1677-BLK1	ND	mg/kg	0.0050		
2,2-Dichloropropane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,1-Dichloropropene	BUA1677-BLK1	ND	mg/kg	0.0050		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA1677						
cis-1,3-Dichloropropene	BUA1677-BLK1	ND	mg/kg	0.0050		
trans-1,3-Dichloropropene	BUA1677-BLK1	ND	mg/kg	0.0050		
Total 1,3-Dichloropropene	BUA1677-BLK1	ND	mg/kg	0.010		
Ethylbenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
Hexachlorobutadiene	BUA1677-BLK1	ND	mg/kg	0.0050		
Isopropylbenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
p-Isopropyltoluene	BUA1677-BLK1	ND	mg/kg	0.0050		
Methylene chloride	BUA1677-BLK1	ND	mg/kg	0.010		
Methyl t-butyl ether	BUA1677-BLK1	ND	mg/kg	0.0050		
Naphthalene	BUA1677-BLK1	ND	mg/kg	0.0050		
n-Propylbenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
Styrene	BUA1677-BLK1	ND	mg/kg	0.0050		
1,1,1,2-Tetrachloroethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,1,2,2-Tetrachloroethane	BUA1677-BLK1	ND	mg/kg	0.0050		
Tetrachloroethene	BUA1677-BLK1	ND	mg/kg	0.0050		
Toluene	BUA1677-BLK1	ND	mg/kg	0.0050		
1,2,3-Trichlorobenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
1,2,4-Trichlorobenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
1,1,1-Trichloroethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,1,2-Trichloroethane	BUA1677-BLK1	ND	mg/kg	0.0050		
Trichloroethene	BUA1677-BLK1	ND	mg/kg	0.0050		
Trichlorofluoromethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,2,3-Trichloropropane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,1,2-Trichloro-1,2,2-trifluoroethane	BUA1677-BLK1	ND	mg/kg	0.0050		
1,2,4-Trimethylbenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
1,3,5-Trimethylbenzene	BUA1677-BLK1	ND	mg/kg	0.0050		
Vinyl chloride	BUA1677-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BUA1677-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BUA1677-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BUA1677-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BUA1677-BLK1	ND	mg/kg	0.0050		
Ethanol	BUA1677-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BUA1677-BLK1	ND	mg/kg	0.0050		
Total Purgeable Petroleum Hydrocarbons	BUA1677-BLK1	ND	mg/kg	0.20		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA1677						
1,2-Dichloroethane-d4 (Surrogate)	BUA1677-BLK1	120	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUA1677-BLK1	100	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUA1677-BLK1	102	%	74 - 121 (LCL - UCL)		

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Project Number: 4513949114
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUA1677										
Benzene	BUA1677-BS1	LCS	0.11976	0.12500	mg/kg	95.8		70 - 130		
Bromodichloromethane	BUA1677-BS1	LCS	0.13607	0.12500	mg/kg	109		70 - 130		
Chlorobenzene	BUA1677-BS1	LCS	0.12826	0.12500	mg/kg	103		70 - 130		
Chloroethane	BUA1677-BS1	LCS	0.11205	0.12500	mg/kg	89.6		70 - 130		
1,4-Dichlorobenzene	BUA1677-BS1	LCS	0.12554	0.12500	mg/kg	100		70 - 130		
1,1-Dichloroethane	BUA1677-BS1	LCS	0.12796	0.12500	mg/kg	102		70 - 130		
1,1-Dichloroethene	BUA1677-BS1	LCS	0.11927	0.12500	mg/kg	95.4		70 - 130		
Toluene	BUA1677-BS1	LCS	0.12196	0.12500	mg/kg	97.6		70 - 130		
Trichloroethene	BUA1677-BS1	LCS	0.12978	0.12500	mg/kg	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUA1677-BS1	LCS	0.059961	0.050000	mg/kg	120		70 - 121		
Toluene-d8 (Surrogate)	BUA1677-BS1	LCS	0.050427	0.050000	mg/kg	101		81 - 117		
4-Bromofluorobenzene (Surrogate)	BUA1677-BS1	LCS	0.054456	0.050000	mg/kg	109		74 - 121		

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312 Piercy Rd
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUA1677	Used client sample: N										
Benzene	MS	1100204-51	ND	0.12757	0.12500	mg/kg		102		70 - 130	
	MSD	1100204-51	ND	0.12134	0.12500	mg/kg	5.0	97.1	20	70 - 130	
Bromodichloromethane	MS	1100204-51	ND	0.15301	0.12500	mg/kg		122		70 - 130	
	MSD	1100204-51	ND	0.13946	0.12500	mg/kg	9.3	112	20	70 - 130	
Chlorobenzene	MS	1100204-51	ND	0.14006	0.12500	mg/kg		112		70 - 130	
	MSD	1100204-51	ND	0.12693	0.12500	mg/kg	9.8	102	20	70 - 130	
Chloroethane	MS	1100204-51	ND	0.12140	0.12500	mg/kg		97.1		70 - 130	
	MSD	1100204-51	ND	0.11306	0.12500	mg/kg	7.1	90.4	20	70 - 130	
1,4-Dichlorobenzene	MS	1100204-51	ND	0.14451	0.12500	mg/kg		116		70 - 130	
	MSD	1100204-51	ND	0.12958	0.12500	mg/kg	10.9	104	20	70 - 130	
1,1-Dichloroethane	MS	1100204-51	ND	0.13690	0.12500	mg/kg		110		70 - 130	
	MSD	1100204-51	ND	0.12953	0.12500	mg/kg	5.5	104	20	70 - 130	
1,1-Dichloroethene	MS	1100204-51	ND	0.12671	0.12500	mg/kg		101		70 - 130	
	MSD	1100204-51	ND	0.11901	0.12500	mg/kg	6.3	95.2	20	70 - 130	
Toluene	MS	1100204-51	ND	0.13732	0.12500	mg/kg		110		70 - 130	
	MSD	1100204-51	ND	0.12735	0.12500	mg/kg	7.5	102	20	70 - 130	
Trichloroethene	MS	1100204-51	ND	0.14343	0.12500	mg/kg		115		70 - 130	
	MSD	1100204-51	ND	0.13209	0.12500	mg/kg	8.2	106	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1100204-51	ND	0.060009	0.050000	mg/kg		120		70 - 121	
	MSD	1100204-51	ND	0.059719	0.050000	mg/kg	0.5	119		70 - 121	
Toluene-d8 (Surrogate)	MS	1100204-51	ND	0.051471	0.050000	mg/kg		103		81 - 117	
	MSD	1100204-51	ND	0.050063	0.050000	mg/kg	2.8	100		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1100204-51	ND	0.056312	0.050000	mg/kg		113		74 - 121	
	MSD	1100204-51	ND	0.054865	0.050000	mg/kg	2.6	110		74 - 121	

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB0462						
TPH - Diesel (FFP)	BUB0462-BLK1	ND	mg/kg	2.0		
TPH - Motor Oil	BUB0462-BLK1	ND	mg/kg	10		
Tetracosane (Surrogate)	BUB0462-BLK1	118	%	20 - 145 (LCL - UCL)		

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUB0462										
TPH - Diesel (FFP)	BUB0462-BS1	LCS	17.501	16.611	mg/kg	105		50 - 136		
	BUB0462-BSD1	LCSD	19.056	16.667	mg/kg	114	8.5	50 - 136	30	
Tetracosane (Surrogate)	BUB0462-BS1	LCS	0.72073	0.66445	mg/kg	108		20 - 145		
	BUB0462-BSD1	LCSD	0.76786	0.66667	mg/kg	115	6.3	20 - 145		

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUB0462	Used client sample: N										
TPH - Diesel (FFP)	MS	1101134-01	ND	13.929	16.611	mg/kg		83.9		40 - 137	
	MSD	1101134-01	ND	13.563	16.556	mg/kg	2.7	81.9	30	40 - 137	
Tetracosane (Surrogate)	MS	1101134-01	ND	0.58299	0.66445	mg/kg		87.7		20 - 145	
	MSD	1101134-01	ND	0.60121	0.66225	mg/kg	3.1	90.8		20 - 145	

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUA1565						
Lead	BUA1565-BLK1	ND	mg/kg	2.5		

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUA1565										
Lead	BUA1565-BS1	LCS	108.91	100.00	mg/kg	109		75 - 125		

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUA1565	Used client sample: N										
Lead	DUP	1101201-21	3.7282	3.5610		mg/kg	4.6		20		
	MS	1101201-21	3.7282	107.87	100.00	mg/kg		104		75 - 125	
	MSD	1101201-21	3.7282	107.50	100.00	mg/kg	0.3	104	20	75 - 125	

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/14/2011 10:30
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A19	Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
S09	The surrogate recovery on the sample for this compound was not within the control limits.

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/15/2011

Lia Holden

Antea Group
312 Piercy Rd
San Jose, CA 95138

RE: 3737
BC Work Order: 1101549
Invoice ID: B095225

Enclosed are the results of analyses for samples received by the laboratory on 1/28/2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Molly Meyers

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

Table of Contents

Chain Of Custody Record

BC Laboratories
4100 Atlas Court, Bakersfield, CA
(661) 327-4911 (661) 327-1918 fax

11-01549

INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

Requisition Number: 000010122363-00015
PO Number: 4513949114

DATE: 1/26/11
PAGE: 1 of 1

SAMPLING COMPANY: Antea™ Group	Valid Value ID:
CONOCOPHILLIPS SITE NUMBER: 3737	GLOBAL ID NO.: T06019745736
ADDRESS: 312 Piercy Road, San Jose, CA	
SITE ADDRESS (Street and City): 1400 Powell Street, Emeryville, California	ConocoPhillips Manager: Ted Moise
PROJECT CONTACT (Hardcopy or PDF Report to): Lia Holden	
TELEPHONE: 408-826-1863	FAX: 408-225-8506
E-MAIL: Lholden@deltaenv.com	
EDF DELIVERABLE TO (RP or Designee): Lia Holden	PHONE NO.: 408-826-1863
E-MAIL: Ted.Moise@contractor.conocophillips.com	LAB USE ONLY
SAMPLER NAME(S) (Print): Nadine Periat	CONSULTANT PROJECT NUMBER: 3737

TURNAROUND TIME (CALENDAR DAYS): ☑ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED ☑

PLEASE CC RESULTS TO Nadine.Periat@Anteagroup.com

* Field Point name only required if different from Sample ID

REQUESTED ANALYSES

LAB USE ONLY	Field Point Name	Sample ID	Sampling Date	Sampling Time	Matrix	No. of Cont.	TPH-G, BTEX, MTBE by EPA Method 8260B	Full VOC Scan including all fuel Oxygenates and Lead Scavengers by EPA 8260	TPH-D, TPH-Motor Oil by EPA 8015M with Silica Gel Cleanup	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	-1	MW-2APP	1/26/11	10:35	W	7	X	X	X	ONLY ONE AMBER REC'D - B
	-2	COMP	1/26/11	1:15	W	8	X	X	X	
	-3	MW-1B	1/26/11	1:20	W	8	X	X	X	
	-4	MW-3B	1/26/11	1:35	W	8	X	X	X	
	-5	MW-2B	1/26/11	2:10	W	8	X	X	X	
	-6	MW-1A	1/26/11	2:20	W	8	X	X	X	
	-7	MW-3A	1/26/11	2:30	W	8	X	X	X	

TEMPERATURE ON RECEIPT C°

CHK BY / DISTRIBUTION / SUB-OUT (stamp)

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
[signature]	P. BINS BCL	1/27/11	1236
BCL VIA GSO 1/27/11 1605	B. Hammel	1-28-11	0805

5/15/03 Revision

BC LABORATORIES INC. — SAMPLE RECEIPT FORM — Rev. No. 12 06/24/08 — Page 2 Of 2

Submission #: 11-01549

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)________

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☐ No ☐ (Yes circled) All samples containers intact? Yes ☐ No ☐ (Yes circled) Description(s) match COC? Yes ☐ No ☐ (Yes circled)

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: PtAm Thermometer ID: #163
Temperature: A 2.4 °C / C 2.4 °C

Date/Time 1-28-11 0805
Analyst Init BLT

SAMPLE CONTAINERS	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A 6	A 6	A 6	A 6	A 6	A 6	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: ~~1 description does not match COC, said "MW-2A"~~ eml 1/28
Sample Numbering Completed By: [signature] Date/Time: 1/28/11 @ 0830
A = Actual / C = Corrected [H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC2.WPD]

Chain of Custody and Cooler Receipt Form for 1101549 Page 3 of 3

BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 Of 2

Submission #: 11-01549

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery ☐
BC Lab Field Service ☐ Other ☒ (Specify) GSO

SHIPPING CONTAINER
Ice Chest ☒ None ☐
Box ☐ Other ☐ (Specify)_____

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☒ Comments:

All samples received? Yes ☐ No ☐ All samples containers intact? Yes ☐ No ☐ Description(s) match COC? Yes ☐ No ☐

COC Received ☒ YES ☐ NO

Emissivity: .95 Container: QHAM Thermometer ID: #163

Temperature: A 5.6 °C / C 5.6 °C

Date/Time 1-28-11 0805

Analyst Init BLT

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	( )	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	B	BC	BC	BC	BC	BC	BC			
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: _____ Date/Time: 1/28/11 @ 830

A = Actual / C = Corrected

[H:\DOCS\WP80\LAB_DOCS\FORMS\SAMREC1.WPD]

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1101549-01	**COC Number:**	---	**Receive Date:** 01/28/2011 08:05
	Project Number:	3737	**Sampling Date:** 01/26/2011 10:33
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-2A	**Lab Matrix:** Water
	Sampled By:	DECJ	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-2A
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1101549-02	**COC Number:**	---	**Receive Date:** 01/28/2011 08:05
	Project Number:	3737	**Sampling Date:** 01/26/2011 13:15
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	COMP	**Lab Matrix:** Water
	Sampled By:	DECJ	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): COMP
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1101549-03	**COC Number:**	---	**Receive Date:** 01/28/2011 08:05
	Project Number:	3737	**Sampling Date:** 01/26/2011 13:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1B	**Lab Matrix:** Water
	Sampled By:	DECJ	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-1B
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1101549-04	**COC Number:**	---	**Receive Date:** 01/28/2011 08:05
	Project Number:	3737	**Sampling Date:** 01/26/2011 13:35
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3B	**Lab Matrix:** Water
	Sampled By:	DECJ	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-3B
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1101549-05	**COC Number:**	---	**Receive Date:** 01/28/2011 08:05
	Project Number:	3737	**Sampling Date:** 01/26/2011 14:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-2B	**Lab Matrix:** Water
	Sampled By:	DECJ	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-2B
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1101549-06	**COC Number:**	---	**Receive Date:** 01/28/2011 08:05
	Project Number:	3737	**Sampling Date:** 01/26/2011 14:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-1A	**Lab Matrix:** Water
	Sampled By:	DECJ	**Sample Type:** Water
			Delivery Work Order:
			Global ID: T06019745736
			Location ID (FieldPoint): MW-1A
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1101549-07

COC Number: ---
Project Number: 3737
Sampling Location: ---
Sampling Point: MW-3A
Sampled By: DECJ

Receive Date: 01/28/2011 08:05
Sampling Date: 01/26/2011 14:30
Sample Depth: ---
Lab Matrix: Water
Sample Type: Water
Delivery Work Order:
Global ID: T06019745736
Location ID (FieldPoint): MW-3A
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-01 | **Client Sample Name:** 3737, MW-2A, 1/26/2011 10:33:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**100**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		2
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		2
Bromoform	ND	ug/L	0.50	EPA-8260	ND		2
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		2
n-Butylbenzene	**6.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
sec-Butylbenzene	**3.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		2
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		2
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Chloroform	**2.5**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		2
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		2
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		2
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		2
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		2
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		2
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		2

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-01 | **Client Sample Name:** 3737, MW-2A, 1/26/2011 10:33:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		2
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		2
Ethylbenzene	**28**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		2
Isopropylbenzene	**14**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
p-Isopropyltoluene	**7.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		2
Methyl t-butyl ether	**140**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	1
Naphthalene	**17**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
n-Propylbenzene	**23**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Styrene	ND	ug/L	0.50	EPA-8260	ND		2
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Toluene	**2.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		2
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		2
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2,4-Trimethylbenzene	**2.5**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
1,3,5-Trimethylbenzene	**2.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		2
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		2
Total Xylenes	**9.0**	**ug/L**	**1.0**	**EPA-8260**	**ND**		2
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		2
t-Butyl alcohol	**1300**	**ug/L**	**10**	**EPA-8260**	**ND**		2
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Ethanol	ND	ug/L	250	EPA-8260	ND		2

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312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-01 | **Client Sample Name:** 3737, MW-2A, 1/26/2011 10:33:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		2
Total Purgeable Petroleum Hydrocarbons	**2500**	**ug/L**	**50**	**Luft-GC/MS**	**ND**		2
1,2-Dichloroethane-d4 (Surrogate)	95.7	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	97.8	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/11	02/07/11 17:06	JSK	HPCHEM	10	BUB0235
2	EPA-8260	02/04/11	02/05/11 08:13	JSK	HPCHEM	1	BUB0235

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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101549-01 | **Client Sample Name:** 3737, MW-2A, 1/26/2011 10:33:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**1200**	**ug/L**	**250**	**Luft/FFP**	**ND**	**A01**	1
TPH - Motor Oil	ND	ug/L	1000	Luft/FFP	ND	A01	1
Tetracosane (Surrogate)	72.0	%	37 - 134 (LCL - UCL)	Luft/FFP		A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	02/03/11	02/10/11 15:06	EJB	GC-2	5.051	BUB0469

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312 Piercy Rd
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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-02 | **Client Sample Name:** 3737, COMP, 1/26/2011 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**13**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	**5.3**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
sec-Butylbenzene	**2.3**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	**3.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-02 | **Client Sample Name:** 3737, COMP, 1/26/2011 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	**5.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	**4.0**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
p-Isopropyltoluene	**2.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**6.0**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Naphthalene	**5.6**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
n-Propylbenzene	**8.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	**0.57**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	**0.60**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
1,3,5-Trimethylbenzene	**0.52**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.5**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	**92**	**ug/L**	**10**	**EPA-8260**	**ND**		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	**15000**	**ug/L**	**2500**	**EPA-8260**	**ND**	**A01**	2

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-02 | **Client Sample Name:** 3737, COMP, 1/26/2011 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**1200**	**ug/L**	**50**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	98.0	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.7	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	109	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/04/11	02/05/11 08:35	JSK	HPCHEM	1	BUB0235
2	EPA-8260	02/07/11	02/07/11 17:27	JSK	HPCHEM	10	BUB0235

Antea Group
312 Piercy Rd
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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101549-02 | **Client Sample Name:** 3737, COMP, 1/26/2011 1:15:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**350**	**ug/L**	**50**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	94.3	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	02/03/11	02/09/11 06:34	MWB	GC-13	0.969	BUB0469

Antea Group
312 Piercy Rd
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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-03 | **Client Sample Name:** 3737, MW-1B, 1/26/2011 1:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	**24**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-03 | **Client Sample Name:** 3737, MW-1B, 1/26/2011 1:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**0.66**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

Antea Group
312 Piercy Rd
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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-03 | **Client Sample Name:** 3737, MW-1B, 1/26/2011 1:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.7	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/11	02/07/11 14:18	JSK	HPCHEM	1	BUB0235

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101549-03 | **Client Sample Name:** 3737, MW-1B, 1/26/2011 1:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	90.1	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	02/03/11	02/09/11 06:57	MWB	GC-13	0.990	BUB0469

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-04 | **Client Sample Name:** 3737, MW-3B, 1/26/2011 1:35:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

Antea Group
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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-04 | **Client Sample Name:** 3737, MW-3B, 1/26/2011 1:35:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-04 | **Client Sample Name:** 3737, MW-3B, 1/26/2011 1:35:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.3	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.9	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/04/11	02/05/11 09:17	JSK	HPCHEM	1	BUB0235

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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101549-04 | **Client Sample Name:** 3737, MW-3B, 1/26/2011 1:35:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**57**	**ug/L**	**50**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	92.3	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	02/03/11	02/09/11 16:04	MWB	GC-13	1	BUB0469

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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-05 | **Client Sample Name:** 3737, MW-2B, 1/26/2011 2:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**0.55**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
sec-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-05 | **Client Sample Name:** 3737, MW-2B, 1/26/2011 2:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	EPA-8260	ND		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**3.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Naphthalene	ND	ug/L	0.50	EPA-8260	ND		1
n-Propylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-05 | **Client Sample Name:** 3737, MW-2B, 1/26/2011 2:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	ND	ug/L	50	Luft-GC/MS	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/11	02/07/11 14:39	JSK	HPCHEM	1	BUB0273

Antea Group
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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101549-05 | **Client Sample Name:** 3737, MW-2B, 1/26/2011 2:10:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	ND	ug/L	50	Luft/FFP	ND		1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	93.3	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	02/03/11	02/09/11 16:27	MWB	GC-13	1.010	BUB0469

Antea Group
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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-06 | **Client Sample Name:** 3737, MW-1A, 1/26/2011 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**8.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Bromobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Bromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromodichloromethane	ND	ug/L	0.50	EPA-8260	ND		1
Bromoform	ND	ug/L	0.50	EPA-8260	ND		1
Bromomethane	ND	ug/L	1.0	EPA-8260	ND		1
n-Butylbenzene	**2.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
sec-Butylbenzene	**1.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
tert-Butylbenzene	ND	ug/L	0.50	EPA-8260	ND		1
Carbon tetrachloride	ND	ug/L	0.50	EPA-8260	ND		1
Chlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Chloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Chloroform	ND	ug/L	0.50	EPA-8260	ND		1
Chloromethane	ND	ug/L	0.50	EPA-8260	ND		1
2-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
4-Chlorotoluene	ND	ug/L	0.50	EPA-8260	ND		1
Dibromochloromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
Dibromomethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,2-Dichloroethene	ND	ug/L	1.0	EPA-8260	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	EPA-8260	ND		1

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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-06 | **Client Sample Name:** 3737, MW-1A, 1/26/2011 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
cis-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	EPA-8260	ND		1
Total 1,3-Dichloropropene	ND	ug/L	1.0	EPA-8260	ND		1
Ethylbenzene	**1.9**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Hexachlorobutadiene	ND	ug/L	0.50	EPA-8260	ND		1
Isopropylbenzene	**4.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
p-Isopropyltoluene	**1.8**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Methylene chloride	ND	ug/L	1.0	EPA-8260	ND		1
Methyl t-butyl ether	**50**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Naphthalene	**1.8**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
n-Propylbenzene	**7.3**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Styrene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Tetrachloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Toluene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	EPA-8260	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Trichloroethene	ND	ug/L	0.50	EPA-8260	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	EPA-8260	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2,4-Trimethylbenzene	**1.0**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
1,3,5-Trimethylbenzene	**1.2**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
Vinyl chloride	ND	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	**1.6**	**ug/L**	**1.0**	**EPA-8260**	**ND**		1
t-Amyl Methyl ether	**1.4**	**ug/L**	**0.50**	**EPA-8260**	**ND**		1
t-Butyl alcohol	**62**	**ug/L**	**10**	**EPA-8260**	**ND**		1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Ethanol	ND	ug/L	250	EPA-8260	ND		1

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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-06 | **Client Sample Name:** 3737, MW-1A, 1/26/2011 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
Total Purgeable Petroleum Hydrocarbons	**960**	**ug/L**	**50**	**Luft-GC/MS**	**ND**		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.0	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	109	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/08/11	02/08/11 14:29	JSK	HPCHEM	1	BUB0273

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312 Piercy Rd
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Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101549-06 | **Client Sample Name:** 3737, MW-1A, 1/26/2011 2:20:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**450**	**ug/L**	**50**	**Luft/FFP**	**ND**	**A52**	1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	65.6	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	02/03/11	02/09/11 16:50	MWB	GC-13	1.010	BUB0469

Antea Group
312 Piercy Rd
San Jose, CA 95138

Reported: 02/15/2011 13:48
Project: 3737
Project Number: 4513949114
Project Manager: Lia Holden

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-07 | **Client Sample Name:** 3737, MW-3A, 1/26/2011 2:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	**160**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	1
Bromobenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Bromochloromethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Bromodichloromethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Bromoform	ND	ug/L	5.0	EPA-8260	ND	A01	1
Bromomethane	ND	ug/L	10	EPA-8260	ND	A01	1
n-Butylbenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
sec-Butylbenzene	**6.2**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	1
tert-Butylbenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Carbon tetrachloride	ND	ug/L	5.0	EPA-8260	ND	A01	1
Chlorobenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Chloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Chloroform	ND	ug/L	5.0	EPA-8260	ND	A01	1
Chloromethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
2-Chlorotoluene	ND	ug/L	5.0	EPA-8260	ND	A01	1
4-Chlorotoluene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Dibromochloromethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dibromo-3-chloropropane	ND	ug/L	10	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Dibromomethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dichlorobenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,3-Dichlorobenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,4-Dichlorobenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Dichlorodifluoromethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,1-Dichloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,1-Dichloroethene	ND	ug/L	5.0	EPA-8260	ND	A01	1
cis-1,2-Dichloroethene	ND	ug/L	5.0	EPA-8260	ND	A01	1
trans-1,2-Dichloroethene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total 1,2-Dichloroethene	ND	ug/L	10	EPA-8260	ND	A01	1
1,2-Dichloropropane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,3-Dichloropropane	ND	ug/L	5.0	EPA-8260	ND	A01	1
2,2-Dichloropropane	ND	ug/L	5.0	EPA-8260	ND	A01	1

Antea Group
312 Piercy Rd
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-07 | **Client Sample Name:** 3737, MW-3A, 1/26/2011 2:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
1,1-Dichloropropene	ND	ug/L	5.0	EPA-8260	ND	A01	1
cis-1,3-Dichloropropene	ND	ug/L	5.0	EPA-8260	ND	A01	1
trans-1,3-Dichloropropene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total 1,3-Dichloropropene	ND	ug/L	10	EPA-8260	ND	A01	1
Ethylbenzene	**96**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	1
Hexachlorobutadiene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Isopropylbenzene	**40**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	1
p-Isopropyltoluene	**9.2**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	1
Methylene chloride	ND	ug/L	10	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
Naphthalene	ND	ug/L	5.0	EPA-8260	ND	A01	1
n-Propylbenzene	**54**	**ug/L**	**5.0**	**EPA-8260**	**ND**	**A01**	1
Styrene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,1,1,2-Tetrachloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Tetrachloroethene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Toluene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2,3-Trichlorobenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2,4-Trichlorobenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,1,1-Trichloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,1,2-Trichloroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
Trichloroethene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Trichlorofluoromethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2,3-Trichloropropane	ND	ug/L	10	EPA-8260	ND	A01	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,2,4-Trimethylbenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
1,3,5-Trimethylbenzene	ND	ug/L	5.0	EPA-8260	ND	A01	1
Vinyl chloride	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Xylenes	ND	ug/L	10	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	ug/L	100	EPA-8260	ND	A01	1
Diisopropyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
Ethanol	ND	ug/L	2500	EPA-8260	ND	A01	1

Antea Group
312 Piercy Rd
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1101549-07 | **Client Sample Name:** 3737, MW-3A, 1/26/2011 2:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Ethyl t-butyl ether	ND	ug/L	5.0	EPA-8260	ND	A01	1
Total Purgeable Petroleum Hydrocarbons	**3100**	**ug/L**	**500**	**Luft-GC/MS**	**ND**	**A01**	1
1,2-Dichloroethane-d4 (Surrogate)	105	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	107	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	02/07/11	02/07/11 15:21	JSK	HPCHEM	10	BUB0273

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312 Piercy Rd
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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

BCL Sample ID: 1101549-07 | **Client Sample Name:** 3737, MW-3A, 1/26/2011 2:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Diesel (FFP)	**830**	**ug/L**	**50**	**Luft/FFP**	**ND**		1
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		1
Tetracosane (Surrogate)	86.7	%	37 - 134 (LCL - UCL)	Luft/FFP			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/FFP	02/03/11	02/09/11 17:13	MWB	GC-13	1.010	BUB0469

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB0235						
Benzene	BUB0235-BLK1	ND	ug/L	0.50		
Bromobenzene	BUB0235-BLK1	ND	ug/L	0.50		
Bromochloromethane	BUB0235-BLK1	ND	ug/L	0.50		
Bromodichloromethane	BUB0235-BLK1	ND	ug/L	0.50		
Bromoform	BUB0235-BLK1	ND	ug/L	0.50		
Bromomethane	BUB0235-BLK1	ND	ug/L	1.0		
n-Butylbenzene	BUB0235-BLK1	ND	ug/L	0.50		
sec-Butylbenzene	BUB0235-BLK1	ND	ug/L	0.50		
tert-Butylbenzene	BUB0235-BLK1	ND	ug/L	0.50		
Carbon tetrachloride	BUB0235-BLK1	ND	ug/L	0.50		
Chlorobenzene	BUB0235-BLK1	ND	ug/L	0.50		
Chloroethane	BUB0235-BLK1	ND	ug/L	0.50		
Chloroform	BUB0235-BLK1	ND	ug/L	0.50		
Chloromethane	BUB0235-BLK1	ND	ug/L	0.50		
2-Chlorotoluene	BUB0235-BLK1	ND	ug/L	0.50		
4-Chlorotoluene	BUB0235-BLK1	ND	ug/L	0.50		
Dibromochloromethane	BUB0235-BLK1	ND	ug/L	0.50		
1,2-Dibromo-3-chloropropane	BUB0235-BLK1	ND	ug/L	1.0		
1,2-Dibromoethane	BUB0235-BLK1	ND	ug/L	0.50		
Dibromomethane	BUB0235-BLK1	ND	ug/L	0.50		
1,2-Dichlorobenzene	BUB0235-BLK1	ND	ug/L	0.50		
1,3-Dichlorobenzene	BUB0235-BLK1	ND	ug/L	0.50		
1,4-Dichlorobenzene	BUB0235-BLK1	ND	ug/L	0.50		
Dichlorodifluoromethane	BUB0235-BLK1	ND	ug/L	0.50		
1,1-Dichloroethane	BUB0235-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUB0235-BLK1	ND	ug/L	0.50		
1,1-Dichloroethene	BUB0235-BLK1	ND	ug/L	0.50		
cis-1,2-Dichloroethene	BUB0235-BLK1	ND	ug/L	0.50		
trans-1,2-Dichloroethene	BUB0235-BLK1	ND	ug/L	0.50		
Total 1,2-Dichloroethene	BUB0235-BLK1	ND	ug/L	1.0		
1,2-Dichloropropane	BUB0235-BLK1	ND	ug/L	0.50		
1,3-Dichloropropane	BUB0235-BLK1	ND	ug/L	0.50		
2,2-Dichloropropane	BUB0235-BLK1	ND	ug/L	0.50		
1,1-Dichloropropene	BUB0235-BLK1	ND	ug/L	0.50		

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Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB0235						
cis-1,3-Dichloropropene	BUB0235-BLK1	ND	ug/L	0.50		
trans-1,3-Dichloropropene	BUB0235-BLK1	ND	ug/L	0.50		
Total 1,3-Dichloropropene	BUB0235-BLK1	ND	ug/L	1.0		
Ethylbenzene	BUB0235-BLK1	ND	ug/L	0.50		
Hexachlorobutadiene	BUB0235-BLK1	ND	ug/L	0.50		
Isopropylbenzene	BUB0235-BLK1	ND	ug/L	0.50		
p-Isopropyltoluene	BUB0235-BLK1	ND	ug/L	0.50		
Methylene chloride	BUB0235-BLK1	ND	ug/L	1.0		
Methyl t-butyl ether	BUB0235-BLK1	ND	ug/L	0.50		
Naphthalene	BUB0235-BLK1	ND	ug/L	0.50		
n-Propylbenzene	BUB0235-BLK1	ND	ug/L	0.50		
Styrene	BUB0235-BLK1	ND	ug/L	0.50		
1,1,1,2-Tetrachloroethane	BUB0235-BLK1	ND	ug/L	0.50		
1,1,2,2-Tetrachloroethane	BUB0235-BLK1	ND	ug/L	0.50		
Tetrachloroethene	BUB0235-BLK1	ND	ug/L	0.50		
Toluene	BUB0235-BLK1	ND	ug/L	0.50		
1,2,3-Trichlorobenzene	BUB0235-BLK1	ND	ug/L	0.50		
1,2,4-Trichlorobenzene	BUB0235-BLK1	ND	ug/L	0.50		
1,1,1-Trichloroethane	BUB0235-BLK1	ND	ug/L	0.50		
1,1,2-Trichloroethane	BUB0235-BLK1	ND	ug/L	0.50		
Trichloroethene	BUB0235-BLK1	ND	ug/L	0.50		
Trichlorofluoromethane	BUB0235-BLK1	ND	ug/L	0.50		
1,2,3-Trichloropropane	BUB0235-BLK1	ND	ug/L	1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	BUB0235-BLK1	ND	ug/L	0.50		
1,2,4-Trimethylbenzene	BUB0235-BLK1	ND	ug/L	0.50		
1,3,5-Trimethylbenzene	BUB0235-BLK1	ND	ug/L	0.50		
Vinyl chloride	BUB0235-BLK1	ND	ug/L	0.50		
Total Xylenes	BUB0235-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUB0235-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BUB0235-BLK1	ND	ug/L	10		
Diisopropyl ether	BUB0235-BLK1	ND	ug/L	0.50		
Ethanol	BUB0235-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUB0235-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BUB0235-BLK1	ND	ug/L	50		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB0235						
1,2-Dichloroethane-d4 (Surrogate)	BUB0235-BLK1	93.9	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUB0235-BLK1	97.4	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUB0235-BLK1	100	%	86 - 115 (LCL - UCL)		
QC Batch ID: BUB0273						
Benzene	BUB0273-BLK1	ND	ug/L	0.50		
Bromobenzene	BUB0273-BLK1	ND	ug/L	0.50		
Bromochloromethane	BUB0273-BLK1	ND	ug/L	0.50		
Bromodichloromethane	BUB0273-BLK1	ND	ug/L	0.50		
Bromoform	BUB0273-BLK1	ND	ug/L	0.50		
Bromomethane	BUB0273-BLK1	ND	ug/L	1.0		
n-Butylbenzene	BUB0273-BLK1	ND	ug/L	0.50		
sec-Butylbenzene	BUB0273-BLK1	ND	ug/L	0.50		
tert-Butylbenzene	BUB0273-BLK1	ND	ug/L	0.50		
Carbon tetrachloride	BUB0273-BLK1	ND	ug/L	0.50		
Chlorobenzene	BUB0273-BLK1	ND	ug/L	0.50		
Chloroethane	BUB0273-BLK1	ND	ug/L	0.50		
Chloroform	BUB0273-BLK1	ND	ug/L	0.50		
Chloromethane	BUB0273-BLK1	ND	ug/L	0.50		
2-Chlorotoluene	BUB0273-BLK1	ND	ug/L	0.50		
4-Chlorotoluene	BUB0273-BLK1	ND	ug/L	0.50		
Dibromochloromethane	BUB0273-BLK1	ND	ug/L	0.50		
1,2-Dibromo-3-chloropropane	BUB0273-BLK1	ND	ug/L	1.0		
1,2-Dibromoethane	BUB0273-BLK1	ND	ug/L	0.50		
Dibromomethane	BUB0273-BLK1	ND	ug/L	0.50		
1,2-Dichlorobenzene	BUB0273-BLK1	ND	ug/L	0.50		
1,3-Dichlorobenzene	BUB0273-BLK1	ND	ug/L	0.50		
1,4-Dichlorobenzene	BUB0273-BLK1	ND	ug/L	0.50		
Dichlorodifluoromethane	BUB0273-BLK1	ND	ug/L	0.50		
1,1-Dichloroethane	BUB0273-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BUB0273-BLK1	ND	ug/L	0.50		
1,1-Dichloroethene	BUB0273-BLK1	ND	ug/L	0.50		
cis-1,2-Dichloroethene	BUB0273-BLK1	ND	ug/L	0.50		
trans-1,2-Dichloroethene	BUB0273-BLK1	ND	ug/L	0.50		

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San Jose, CA 95138

Reported: 02/15/2011 13:48
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB0273						
Total 1,2-Dichloroethene	BUB0273-BLK1	ND	ug/L	1.0		
1,2-Dichloropropane	BUB0273-BLK1	ND	ug/L	0.50		
1,3-Dichloropropane	BUB0273-BLK1	ND	ug/L	0.50		
2,2-Dichloropropane	BUB0273-BLK1	ND	ug/L	0.50		
1,1-Dichloropropene	BUB0273-BLK1	ND	ug/L	0.50		
cis-1,3-Dichloropropene	BUB0273-BLK1	ND	ug/L	0.50		
trans-1,3-Dichloropropene	BUB0273-BLK1	ND	ug/L	0.50		
Total 1,3-Dichloropropene	BUB0273-BLK1	ND	ug/L	1.0		
Ethylbenzene	BUB0273-BLK1	ND	ug/L	0.50		
Hexachlorobutadiene	BUB0273-BLK1	ND	ug/L	0.50		
Isopropylbenzene	BUB0273-BLK1	ND	ug/L	0.50		
p-Isopropyltoluene	BUB0273-BLK1	ND	ug/L	0.50		
Methylene chloride	BUB0273-BLK1	ND	ug/L	1.0		
Methyl t-butyl ether	BUB0273-BLK1	ND	ug/L	0.50		
Naphthalene	BUB0273-BLK1	ND	ug/L	0.50		
n-Propylbenzene	BUB0273-BLK1	ND	ug/L	0.50		
Styrene	BUB0273-BLK1	ND	ug/L	0.50		
1,1,1,2-Tetrachloroethane	BUB0273-BLK1	ND	ug/L	0.50		
1,1,2,2-Tetrachloroethane	BUB0273-BLK1	ND	ug/L	0.50		
Tetrachloroethene	BUB0273-BLK1	ND	ug/L	0.50		
Toluene	BUB0273-BLK1	ND	ug/L	0.50		
1,2,3-Trichlorobenzene	BUB0273-BLK1	ND	ug/L	0.50		
1,2,4-Trichlorobenzene	BUB0273-BLK1	ND	ug/L	0.50		
1,1,1-Trichloroethane	BUB0273-BLK1	ND	ug/L	0.50		
1,1,2-Trichloroethane	BUB0273-BLK1	ND	ug/L	0.50		
Trichloroethene	BUB0273-BLK1	ND	ug/L	0.50		
Trichlorofluoromethane	BUB0273-BLK1	ND	ug/L	0.50		
1,2,3-Trichloropropane	BUB0273-BLK1	ND	ug/L	1.0		
1,1,2-Trichloro-1,2,2-trifluoroethane	BUB0273-BLK1	ND	ug/L	0.50		
1,2,4-Trimethylbenzene	BUB0273-BLK1	ND	ug/L	0.50		
1,3,5-Trimethylbenzene	BUB0273-BLK1	ND	ug/L	0.50		
Vinyl chloride	BUB0273-BLK1	ND	ug/L	0.50		
Total Xylenes	BUB0273-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BUB0273-BLK1	ND	ug/L	0.50		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB0273						
t-Butyl alcohol	BUB0273-BLK1	ND	ug/L	10		
Diisopropyl ether	BUB0273-BLK1	ND	ug/L	0.50		
Ethanol	BUB0273-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BUB0273-BLK1	ND	ug/L	0.50		
Total Purgeable Petroleum Hydrocarbons	BUB0273-BLK1	ND	ug/L	50		
1,2-Dichloroethane-d4 (Surrogate)	BUB0273-BLK1	109	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BUB0273-BLK1	99.4	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BUB0273-BLK1	100	%	86 - 115 (LCL - UCL)		

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Project: 3737
Project Number: 4513949114
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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUB0235										
Benzene	BUB0235-BS1	LCS	26.110	25.000	ug/L	104		70 - 130		
Bromodichloromethane	BUB0235-BS1	LCS	28.120	25.000	ug/L	112		70 - 130		
Chlorobenzene	BUB0235-BS1	LCS	26.770	25.000	ug/L	107		70 - 130		
Chloroethane	BUB0235-BS1	LCS	26.220	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BUB0235-BS1	LCS	27.500	25.000	ug/L	110		70 - 130		
1,1-Dichloroethane	BUB0235-BS1	LCS	26.350	25.000	ug/L	105		70 - 130		
1,1-Dichloroethene	BUB0235-BS1	LCS	26.610	25.000	ug/L	106		70 - 130		
Toluene	BUB0235-BS1	LCS	26.800	25.000	ug/L	107		70 - 130		
Trichloroethene	BUB0235-BS1	LCS	27.830	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUB0235-BS1	LCS	10.540	10.000	ug/L	105		76 - 114		
Toluene-d8 (Surrogate)	BUB0235-BS1	LCS	10.220	10.000	ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUB0235-BS1	LCS	10.520	10.000	ug/L	105		86 - 115		
QC Batch ID: BUB0273										
Benzene	BUB0273-BS1	LCS	25.060	25.000	ug/L	100		70 - 130		
Bromodichloromethane	BUB0273-BS1	LCS	25.550	25.000	ug/L	102		70 - 130		
Chlorobenzene	BUB0273-BS1	LCS	25.750	25.000	ug/L	103		70 - 130		
Chloroethane	BUB0273-BS1	LCS	25.800	25.000	ug/L	103		70 - 130		
1,4-Dichlorobenzene	BUB0273-BS1	LCS	26.540	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BUB0273-BS1	LCS	24.840	25.000	ug/L	99.4		70 - 130		
1,1-Dichloroethene	BUB0273-BS1	LCS	26.110	25.000	ug/L	104		70 - 130		
Toluene	BUB0273-BS1	LCS	25.270	25.000	ug/L	101		70 - 130		
Trichloroethene	BUB0273-BS1	LCS	25.310	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BUB0273-BS1	LCS	10.430	10.000	ug/L	104		76 - 114		
Toluene-d8 (Surrogate)	BUB0273-BS1	LCS	10.250	10.000	ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BUB0273-BS1	LCS	10.540	10.000	ug/L	105		86 - 115		

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Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUB0235	Used client sample: N										
Benzene	MS	1100204-84	ND	26.080	25.000	ug/L		104		70 - 130	
	MSD	1100204-84	ND	26.030	25.000	ug/L	0.2	104	20	70 - 130	
Bromodichloromethane	MS	1100204-84	ND	26.580	25.000	ug/L		106		70 - 130	
	MSD	1100204-84	ND	26.280	25.000	ug/L	1.1	105	20	70 - 130	
Chlorobenzene	MS	1100204-84	ND	26.250	25.000	ug/L		105		70 - 130	
	MSD	1100204-84	ND	26.410	25.000	ug/L	0.6	106	20	70 - 130	
Chloroethane	MS	1100204-84	ND	27.730	25.000	ug/L		111		70 - 130	
	MSD	1100204-84	ND	27.410	25.000	ug/L	1.2	110	20	70 - 130	
1,4-Dichlorobenzene	MS	1100204-84	ND	27.680	25.000	ug/L		111		70 - 130	
	MSD	1100204-84	ND	26.490	25.000	ug/L	4.4	106	20	70 - 130	
1,1-Dichloroethane	MS	1100204-84	ND	26.250	25.000	ug/L		105		70 - 130	
	MSD	1100204-84	ND	25.910	25.000	ug/L	1.3	104	20	70 - 130	
1,1-Dichloroethene	MS	1100204-84	ND	26.390	25.000	ug/L		106		70 - 130	
	MSD	1100204-84	ND	27.170	25.000	ug/L	2.9	109	20	70 - 130	
Toluene	MS	1100204-84	ND	25.840	25.000	ug/L		103		70 - 130	
	MSD	1100204-84	ND	26.380	25.000	ug/L	2.1	106	20	70 - 130	
Trichloroethene	MS	1100204-84	ND	28.320	25.000	ug/L		113		70 - 130	
	MSD	1100204-84	ND	29.840	25.000	ug/L	5.2	119	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1100204-84	ND	10.800	10.000	ug/L		108		76 - 114	
	MSD	1100204-84	ND	9.8600	10.000	ug/L	9.1	98.6		76 - 114	
Toluene-d8 (Surrogate)	MS	1100204-84	ND	10.030	10.000	ug/L		100		88 - 110	
	MSD	1100204-84	ND	10.040	10.000	ug/L	0.1	100		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1100204-84	ND	10.790	10.000	ug/L		108		86 - 115	
	MSD	1100204-84	ND	9.9100	10.000	ug/L	8.5	99.1		86 - 115	
QC Batch ID: BUB0273	Used client sample: N										
Benzene	MS	1100204-85	ND	25.480	25.000	ug/L		102		70 - 130	
	MSD	1100204-85	ND	25.710	25.000	ug/L	0.9	103	20	70 - 130	
Bromodichloromethane	MS	1100204-85	ND	25.000	25.000	ug/L		100		70 - 130	
	MSD	1100204-85	ND	25.230	25.000	ug/L	0.9	101	20	70 - 130	
Chlorobenzene	MS	1100204-85	ND	26.150	25.000	ug/L		105		70 - 130	
	MSD	1100204-85	ND	25.590	25.000	ug/L	2.2	102	20	70 - 130	
Chloroethane	MS	1100204-85	ND	27.520	25.000	ug/L		110		70 - 130	
	MSD	1100204-85	ND	26.920	25.000	ug/L	2.2	108	20	70 - 130	
1,4-Dichlorobenzene	MS	1100204-85	ND	27.060	25.000	ug/L		108		70 - 130	
	MSD	1100204-85	ND	26.470	25.000	ug/L	2.2	106	20	70 - 130	
1,1-Dichloroethane	MS	1100204-85	ND	25.760	25.000	ug/L		103		70 - 130	
	MSD	1100204-85	ND	25.490	25.000	ug/L	1.1	102	20	70 - 130	

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUB0273	Used client sample: N										
1,1-Dichloroethene	MS	1100204-85	ND	27.470	25.000	ug/L		110		70 - 130	
	MSD	1100204-85	ND	26.750	25.000	ug/L	2.7	107	20	70 - 130	
Toluene	MS	1100204-85	ND	26.010	25.000	ug/L		104		70 - 130	
	MSD	1100204-85	ND	25.340	25.000	ug/L	2.6	101	20	70 - 130	
Trichloroethene	MS	1100204-85	ND	27.480	25.000	ug/L		110		70 - 130	
	MSD	1100204-85	ND	25.040	25.000	ug/L	9.3	100	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1100204-85	ND	9.7600	10.000	ug/L		97.6		76 - 114	
	MSD	1100204-85	ND	10.240	10.000	ug/L	4.8	102		76 - 114	
Toluene-d8 (Surrogate)	MS	1100204-85	ND	10.110	10.000	ug/L		101		88 - 110	
	MSD	1100204-85	ND	10.060	10.000	ug/L	0.5	101		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1100204-85	ND	10.340	10.000	ug/L		103		86 - 115	
	MSD	1100204-85	ND	10.180	10.000	ug/L	1.6	102		86 - 115	

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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BUB0469						
TPH - Diesel (FFP)	BUB0469-BLK1	ND	ug/L	50		
TPH - Motor Oil	BUB0469-BLK1	ND	ug/L	200		
Tetracosane (Surrogate)	BUB0469-BLK1	91.0	%	37 - 134 (LCL - UCL)		

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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BUB0469										
TPH - Diesel (FFP)	BUB0469-BS1	LCS	381.70	500.00	ug/L	76.3		52 - 128		
Tetracosane (Surrogate)	BUB0469-BS1	LCS	18.603	20.000	ug/L	93.0		37 - 134		

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Purgeable Aromatics and Total Petroleum Hydrocarbons (Silica Gel Treated)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BUB0469	Used client sample: N										
TPH - Diesel (FFP)	MS	1016633-39	ND	371.10	500.00	ug/L		74.2		50 - 127	
	MSD	1016633-39	ND	281.61	500.00	ug/L	27.4	56.3	24	50 - 127	Q02
Tetracosane (Surrogate)	MS	1016633-39	ND	18.388	20.000	ug/L		91.9		37 - 134	
	MSD	1016633-39	ND	17.553	20.000	ug/L	4.6	87.8		37 - 134	

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Notes And Definitions

MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A52	Chromatogram not typical of diesel.
Q02	Matrix spike precision is not within the control limits.