



76 Broadway
Sacramento, California 95818

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8:44 am, Oct 22, 2010

Alameda County
Environmental Health

October 21, 2010

Mr. Jerry Wickham
Alameda County Health Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Re: **Additional Assessment Report**
76 Station No. 1156
4276 MacArthur Boulevard
Oakland, California

Dear Mr. Wickham,

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 contact me at (916) 558-7612.

Sincerely,

A handwritten signature in black ink that reads "Bill Borgh". The signature is written in a cursive, slightly slanted style.

Bill Borgh
Site Manager – Risk Management and Remediation

Attachment

October 21, 2010

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

RE: **ADDITIONAL ASSESSMENT REPORT**
4276 MacArthur Boulevard
Oakland, California

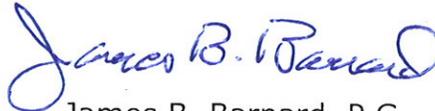
Dear Mr. Wickham:

On behalf of ConocoPhillips Company (COP), Delta Consultants (Delta) is submitting this *Additional Assessment Report*, for the following location:

76 Service Station No. 1156
4276 MacArthur Blvd
Oakland, CA

Please contact James Barnard at (916) 503-1279 if you have questions.

Sincerely,
DELTA CONSULTANTS



James B. Barnard, P.G.
Project Manager



cc: Mr. Bill Borgh - ConocoPhillips (electronic copy only)

ADDITIONAL ASSESSMENT REPORT

**76 Service Station No. 1156
4276 MacArthur Blvd
Oakland, California**

October 21, 2010

Prepared for

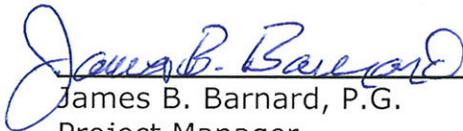
**ConocoPhillips Company
76 Broadway
Sacramento, California**

The material and data in this report were prepared under the supervision and direction of the undersigned.

Delta Consultants



Alan Buehler
Staff Geologist



James B. Barnard, P.G.
Project Manager
California Registered Professional Geologist No. 7478



1.0 INTRODUCTION

On behalf of ConocoPhillips Company (COP), Delta Consultants (Delta) has prepared this *Additional Assessment Report*. Activities performed were approved in an Alameda County Health Care Services Agency (ACHCSA) letter to COP dated October 15, 2009, a ACHCSA letter to COP dated April 5, 2010, and an email from Jerry Wickham (ACHCSA) to James Barnard (Delta) and Terry Grayson (COP) for the site at the above location (**Figure 1**). Copies of the ACHCSA approval letters from October 15, 2009, April 5, 2010, and the email are provided as **Appendices A, B, and C**, respectively.

All proposed activities were reviewed in a meeting on November 10, 2009 attended by Mr. Jerry Wickham (ACHCSA), Mr. Terry Grayson (COP), Mr. James Barnard (Delta) and Mr. Chris Christensen [Gregg Drilling and Testing, Inc., (Gregg)].

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

The site is located at the northeast corner of MacArthur Boulevard and High Street in Oakland, California (**Figure 1**). Two 10,000-gallon gasoline underground storage tanks (USTs) are located in the southwestern portion of the site. Two dispenser islands are located at the site, one to the northwest and one to the east of the USTs (**Figure 2**). In October 2009, an undocumented concrete vault was discovered underground in the northeast corner of the site, in vicinity of MW-1. A station building is located in the northern portion of the site. There are currently eight groundwater monitoring wells (MW-1 through MW-8) and one tank backfill well (TP-1) located at and in the vicinity of the site. Properties in the immediate vicinity of the site are utilized for commercial and residential purposes.

2.2 PREVIOUS ASSESSMENT

A site map with historical sampling locations is included as **Figure 2**.

In 1997, Pacific Environmental Group Inc. (PEG) advanced 5 soil vapor probes in the vicinity of the USTs, dispenser islands, and product lines to depths ranging from 3 to 15 feet below ground surface (bgs). Soil vapor concentrations of total petroleum hydrocarbons as gasoline (TPHg), benzene, and methyl tert butyl ether (MTBE) were reported at up to 4,700 micrograms per liter ($\mu\text{g/L}$), 70 $\mu\text{g/L}$, and 140 $\mu\text{g/L}$ respectively.

In 1998, Tosco Marketing Company (Tosco) removed one 280-gallon waste oil tank (WOT), and removed and replaced two 10,000-gallon gasoline USTs, associated piping, and fuel dispensers. Laboratory analyses of soil samples collected at 6 feet bgs from the sidewall at each end of the gasoline UST detected concentrations of total purgeable petroleum hydrocarbons as gasoline (TPPHg) of up to 1,200 mg/Kg. TPPHg was not detected at or above laboratory method detection limits in soil samples collected adjacent to dispensers D1 (2 feet bgs) and D4 (3 feet bgs), but

was detected in soil samples collected at from adjacent to dispensers D2 (3 feet bgs) and D3 (3 feet bgs) and within the former product line trenching up to 590 mg/Kg. Laboratory analyses of soil samples from the bottom and western and southern limits of the WOT excavation detected TPPHg (6.5 feet bgs) up to 130 mg/Kg, total extractable petroleum hydrocarbons as diesel (TEPHd) up to 78,000 mg/Kg, Benzene up to 0.55 mg/Kg, and total recoverable petroleum hydrocarbons (TRPH) up to 8,400 mg/Kg. Following the over-excavation of approximately 4.6 tons of soil from the WOT excavation, TEPHd, TPPHg, benzene, and TRPH were reported in soil samples collected from the WOT excavation (6 feet bgs) at concentrations up to 560 mg/kg, 81 mg/kg, 0.64 mg/kg, and 360 mg/kg, respectively. Analytical data from a groundwater sample collected from the gasoline UST excavation (7.5 feet bgs) reported TPPHg, toluene, ethyl-benzene, and xylene concentrations of 41,000 µg/L, 400 µg/L, 770 µg/L and 8,900 µg/L, respectively. Benzene was reported to be below the laboratory's indicated reporting limit in the groundwater sample collected for analysis.

In 1999, Environmental Resolutions Inc. (ERI) conducted a soil and groundwater assessment which included the installation of four on-site groundwater monitoring wells (MW-1 through MW-4). Analytical data from the soil samples collected from the borings at a depth of 10.5 feet bgs reported TPPHg, benzene, and MTBE at concentrations up to 6,800 mg/kg, 2.6 mg/kg, and 0.71 mg/kg, respectively. The soil sample collected from MW-1, near the former WOT, was also analyzed for TPHd and TPPH. Analytical data from this soil sample reported TEPHd and TRPH at concentrations of 140 mg/kg and 73 mg/kg, respectively. The groundwater sample collected from MW-1, near the former WOT, was analyzed for TEPHd, TRPH, TPPHg, BTEX, and MTBE. Analytical data from this water sample reported TEPHd, TPPHg, benzene, toluene, ethyl-benzene, xylenes, and MTBE at concentrations of 16,000 µg/L, 120,000 µg/L, 11,000 µg/L, 27,000 µg/L, 3,300 µg/L, 18,000 µg/L, respectively. MTBE was at or below laboratory detection limits in MW-1. However, MTBE was detected in the groundwater sample from MW-2 at a concentration that varied from 4,500 µg/L (EPA Method 8260) to 11,000 µg/L (elevated laboratory detection limit).

Analytical data from an additional soil sample collected at a depth of 20.5 feet bgs from the MW-4 boring reported TPPHg, benzene, and MTBE below the laboratory's indicated reporting limits. Quarterly groundwater monitoring and sampling activities commenced in July 1999 and are currently ongoing.

In July 2001, ERI installed a UST pit backfill well (TP-1) and initiated monthly purging of groundwater from the UST excavation. Bi-weekly groundwater purging was conducted at the site using wells TP-1 and MW-1 from July 2001 through December 2004.

In August 2001, ERI installed three off-site monitoring wells (MW-5 through MW-7). Analytical data from soil samples collected from these well borings reported TPHg and MTBE below the laboratory's indicated reporting limits. Analytical data reported benzene in one soil sample collected from MW-7 (10 feet bgs) at a concentration of 0.18 mg/kg.

Beginning in June 2004, monitoring well MW-7 was added to the ongoing bi-weekly purging events. Approximately 1,600 gallons of groundwater were removed from monitoring well MW-7 from June through December 2004. A cumulative total of approximately 476,015 gallons of groundwater was removed from the site from July 2001 through December 2004.

ATC Associates became the new lead consultant for the site in January 2005. Delta Consultants became the new consultant for the site in September 2005.

In October 2007, Delta advanced six on-site soil borings and installed an additional off-site monitoring well (MW-8). The details of this investigation were presented in Delta's *Site Investigation Report*, dated December 28, 2007.

In July 2009, Delta performed site assessment activities to additionally assess the horizontal and vertical migration of petroleum hydrocarbons in soil, groundwater, and soil vapor. A total of five borings were advanced outside the southeast, southwest and northwest perimeter of the station building (**Figure 2**). Seven temporary soil vapor sampling points were installed outside the perimeter of all sides of the station building. A complete summary of results and recommendations for future work was provided in Delta's September 8, 2009 *Site Investigation Report*.

2.3 SENSITIVE RECEPTORS

2001 – A GeoTracker database search was performed which identified four public water supply wells owned by the East Bay Regional Park District (Park District) present within a one-half mile radius of the site. Representatives from the Park District reported having no knowledge or records of any wells under their ownership or oversight located in this area and indicated that the wells may have belonged to the East Bay Municipal Utility District (EBMUD). EBMUD was contacted and reported no knowledge or records of any wells under their ownership or oversight located in this area.

Also in 2001- A Department of Water Resources (DWR) database search was performed which identified four water supply wells belonging to Mills College present within the one-half mile radius search area. A representative from Mills College indicated that all wells associated with Mills College had been destroyed and Mills College was now connected to a municipal water supply. The DWR search also indicated a well was located at 3397 Arkansas Street, approximately 880 feet outside of the search area. No other wells, surface water bodies, or potentially sensitive environmental habitats were identified during ERI's field receptor search.

2006 – A well survey, which included a visit to the DWR office in Sacramento, was performed to examine well log records and identify domestic wells within the survey area. The DWR survey identified two potential receptors within one mile of the site: one irrigation well located 0.9 miles northwest of the site and one domestic/irrigation well located 1.0 mile northeast of the site. Two additional

potential receptors were identified, although the specific addresses could not be verified.

2.4 SITE GEOLOGY

The site is composed of unconsolidated deposits of sand and silt in a clay matrix, with some fine-grained gravel. Clay is predominant in the upper lithology with sandy/silty clay and clayey sand units, between approximately 1 to 15 feet bgs. The clay unit is underlain by clay interbedded with sandy clay, clayey sand, silty sands and some gravelly sandy clay units, observed to the maximum depth explored (50.5 feet bgs).

2.5 SITE HYDROGEOLOGY

During monitoring well installations, groundwater has typically been encountered at depths between 15 and 23.5 feet bgs in six of the eight installed monitoring wells. The reported first water in installed monitoring wells MW-5 (6 feet) and MW-6 (5.5 feet) is suspect and not to be considered first water. The previously mentioned groundwater depths correspond with the interface of the two aforementioned lithologic units. During the most recent groundwater monitoring event, conducted on July 23, 2009 (third quarter), the static depth to groundwater ranged from 1.10 feet (MW-8) to 7.32 feet (MW-7) below top of casing (TOC). The groundwater flow direction and gradient was interpreted to be to the southwest at 0.06 foot per foot (ft/ft). The predominant historical groundwater flow at the 76 service station has been to the west (with variations to the southwest) at an average gradient of approximately 0.06 foot per foot (ft/ft).

2.6 SITE ASSESSMENT UPDATE

Delta submitted the "*Site Investigation Report*" (Report) dated August 26, 2009, detailing the results of soil, soil vapor, and groundwater sampling conducted at the site in July 2009.

Field work was conducted during the week of July 6th through July 10th, 2009, and again on August 11, 2009, to continue to assess the horizontal and vertical migration potential of petroleum hydrocarbons in soil, groundwater, and soil vapor. This assessment was also used to evaluate if a preferential pathway existed between the former UST pit and MW-1.

A total of five CPT/direct push borings were sited along the southeast, southwest and northwest portions of the station building. Seven temporary soil vapor sampling points were installed along all sides of the station building (**Figure 2**).

In reviewing the report, ACHCSA identified limitations in the collected data which prevented the field investigation from being completed as proposed. Specifically, ACHCSA determined that the horizontal and vertical extent of petroleum hydrocarbon constituents in the area of the station building, WOT, and former UST basin had not been adequately assessed and further investigation into the potential

for a shallow preferential pathway was required. These items were reviewed and discussed during an on-site meeting on November 10, 2009 attended by Mr. Jerry Wickham (ACHCSA), Mr. Chris Christensen (Gregg Drilling), Mr. Terry Grayson (COP), and Mr. James Barnard (Delta).

3.0 ADDITIONAL ASSESSMENT

The Additional Assessment activities included soil vapor point sampling, soil vapor well installation and sampling, monitoring well abandonment and reinstallation, soil and groundwater borings, and assessment of a previously unidentified underground vault/utility.

Current on-site and off-site wells are depicted in **Figure 3**. Current investigation boring and well locations are depicted in **Figure 4**. Boring logs for soil vapor wells, sonic borings, and replacement monitoring wells are included as **Appendix D**. Boring logs for abandoned wells are included as **Appendix E**. DWR well completion and abandonment reports are included as **Appendix F**.

3.1 PRE-FIELD ACTIVITIES

Before commencing field operations Delta prepared a site-specific health and safety plan in accordance with state and federal requirements for use during site assessment activities. Delta also obtained the appropriate permits from Alameda County Public Works, as well as the appropriate encroachment permits from the City of Oakland for assessment activities in the public right-of-way.

Prior to performing any drilling activities, Delta identified and marked the proposed assessment locations and notified Underground Service Alert (USA) as required. A private utility locating service was also contracted to clear the proposed working locations for underground utilities.

The soil vapor point and soil vapor well locations will be hand-auger cleared to five-feet below ground surface. All the proposed soil and groundwater boring locations, including monitoring well locations proposed for abandonment and proposed replacement monitoring well locations will be cleared by air vacuum to five feet bgs, to avoid damage to possible underground utilities.

3.2 SOIL VAPOR SAMPLING

To confirm the 2009 soil vapor sampling results and continue evaluating potential vapor intrusion on-site and off-site, Delta proposed to installed one (1) temporary soil vapor point (SV-8) along the northwest boundary of the Oakland Veterinary Clinic and six (6) semi-permanent soil vapor wells (SVW-1 through SVW-6) along the northwest property boundary between the station building and the Oakland Veterinary Clinic.

3.3 TEMPORARY SOIL VAPOR POINT

Due to access agreement issues that arose between ConocoPhillips and the property owner, the soil vapor sampling point was not installed on the Oakland Veterinary Clinic Property. Once access agreement issues have been resolved, this matter may be further assessed.

3.4 SOIL VAPOR WELLS

To evaluate the potential for vapor intrusion, Delta installed six (6) soil vapor wells (SVW-1 through SVW-6) at the locations shown on **Figure 4**. Delta reviewed general arrangement diagrams and existing utility maps to approximate the installation locations, which span the northwest property boundary between the station building and the Oakland Veterinary Clinic.

3.4.1 Soil Vapor Well Installations

On August 9 and 10, 2010, Delta oversaw the hand-auger and installation of the above mentioned soil vapor wells.

Each soil vapor well was hand augered using a three-inch diameter steel hand auger to a maximum depth of approximately 5 feet bgs. Soil cuttings were logged using the Unified Soil Classification System (USCS) for lithologic interpretation. Observed groundwater levels, soil descriptions, and field observations are recorded on the boring logs (**Appendix D**).

After augering to 5 feet bgs, 6 inches of #30 sand was placed in the borehole. The soil vapor tip connected to ¼ inch Teflon tubing was placed on top of this sand, and another 6 inches of sand placed on top of the sampling tip. 6 inches of dry granular bentonite was placed on top of the sand, and thick bentonite grout was placed from above the dry bentonite to just below ground surface. The well was finished at the surface with a 7 inch well box set in concrete dyed to match existing surface conditions. The total length of tubing is approximately 7 feet to allow for an appropriate length of tubing to extend above the top of the well to facilitate sampling. This exposed end of tubing is sealed with a 0.25-inch airtight Swagelok™ valve in the closed position.

A construction diagram of the soil vapor wells is included as **Figure 5**. Boring logs for soil vapor wells are included in as part of **Appendix D**.

3.4.2 Soil Vapor Well Sampling

Soil vapors in the vicinity of the installed soil vapor wells were allowed to stabilize for four weeks in the absence of measurable precipitation prior to sampling. Soil vapor sampling activities were performed by Delta field personnel on September 8 and 9, 2010.

Prior to sample collection, the condition of the well was observed. If the ¼ in tubing extending from the well was crimped or damaged, the tubing was cut below the damaged area and the airtight valve replaced. Then, with the airtight valve remaining in the closed position, a two minute vacuum test was performed on the tubing and connections connecting the valve to the summa canisters.

A sampling shroud was constructed of plastic with hydrated bentonite granules sealing the ground contact and tubing connections. The shroud covered the sample point location and the tubing valve. Leak detection tracer compound, isopropyl alcohol (IPA), was applied under the shroud.

Once the shroud was in place, three calculated tubing line volumes were purged into a six-liter purge summa canister. Once three line volumes had been purged, a soil vapor sample was collected from this zone using two clean, laboratory-certified, one-liter summa canisters. Once a valid vapor sample had been collected, it was sent to a certified laboratory. One of the summa canisters was analyzed for TPHg, benzene, toluene, ethyl-benzene, total xylenes (collectively BTEX), MTBE, tert amyl methyl ether (TAME), ethylene tert butyl ether (ETBE), di-isopropyl ether (DIPE), tert butyl alcohol (TBA), ethylene dibromide (EDB), ethylene dichloride (EDC), and ethanol (8 oxygenates) and IPA by EPA Method TO-15. The second summa was used to analyze for Oxygen (O₂), carbon dioxide (CO₂), and methane (CH₄) by EPA Fixed Gas Analysis.

Soil vapor samples were collected from 5 of the six proposed locations, SVW-1, SVW-2, SVW-3, SVW-5, and SVW-6. A soil vapor sample was not collected from SVW-4 due to water in the well, negating the ability to obtain a valid vapor sample.

3.5 MONITORING WELLS

Current on-site and off-site wells are depicted in **Figure 3**. Current investigation boring and well locations are depicted in **Figure 4**.

As discussed and agreed upon during the November 10, 2009 meeting between ACHCSA, COP, Delta, and Gregg, existing onsite monitoring wells MW-1 through MW-4, and offsite wells MW-6 and MW-8 were properly abandoned. Replacement wells (MW-1B through MW-4B) were installed to reduce the screen interval length from 20 feet in length in the original wells to 5 feet in length in the replacement wells. The limited screen will potentially restrict the contact between groundwater and shallow soil and reduce groundwater flow through preferred pathways at shallow (less than 15-feet bgs) depths in soil.

Delta also proposed to abandon and replace MW-5, however, utility locating activities revealed a possible gas main in the street approximately 1.5 feet from the well location. Delta did not feel drilling of the replacement well was feasible or safe at this time in this location, and thus did not abandon MW-5. Upon further review, if a more suitable location for the MW-5 replacement can be found, Delta will abandon and replace this well.

3.5.1 Well Abandonment Activities

On August 10 and 11, 2010, Delta oversaw the air-knife clearance of onsite monitoring wells MW-1 through MW-4. On August 12 and 13 Delta oversaw the abandonment of MW-1 through MW-4. On August 18, 2010, Delta oversaw the abandonment of monitoring wells MW-6 and MW-8.

Prior to the abandonment of each well, total depth was measured to determine if any obstruction or sediment is present in the well.

Monitoring wells MW-1, MW-2, and MW-4 were abandoned by over-drilling to a depth of one-foot below their original constructed depths using a truck mounted drill-rig equipped with 10-inch outside diameter hollow-stem augers. The original wells were installed in an 8-inch borehole. Subsequent to over-drilling, the borehole was backfilled with neat cement and sealed with concrete dyed to match the existing surface conditions under inspection of Alameda County Public Works Agency.

Monitoring wells MW-3, MW-6, and MW-8 were abandoned by method of pressure grout. MW-6 and MW-8 were abandoned in this manner to limit the amount of time Delta and subcontractor personnel were required to work in MacArthur Boulevard traffic lanes. MW-3 was abandoned in this manner due to the close proximity of an underground water line making overdrill not safely feasibly. Grout was pumped into each well casing at a pressure of 25 pounds per square inch (psi) for a duration of 5 minutes, under supervision of Alameda County Public Works Agency. The existing well box and top portion of casing were then removed, and the hole was patched with concrete dyed to match the existing surface conditions.

Boring logs for the abandoned wells are included as **Appendix E**.

3.5.2 Replacement Well Installation Activities

On August 13, 16, and 17, 2010, Delta oversaw the advancement of replacement monitoring wells MW-1B through MW-4B.

Replacement wells MW-1B through MW-4B were drilled in close proximity to the locations of the corresponding original monitoring well (**Figures 3 and 4**). The replacement monitoring wells were installed by advancing an 8-inch diameter hollow stem auger to a proposed maximum depth of 25 feet bgs.

Soil samples were collected for laboratory analysis and lithologic interpretation and were field screened for volatile organic compounds with a photo-ionization detector (PID) at 5 foot intervals beginning just below the initial depth for utility clearance to approximately 25 feet bgs. Soil samples were logged using the Unified Soil Classification System (USCS). Observed groundwater levels, PID readings, soil descriptions, and field observations will be recorded on the boring logs (**Appendix D**).

Soil samples collected were properly labeled and placed on ice pending submittal for analysis to a certified laboratory. A chain-of-custody accompanied the samples during transportation to the laboratory. The collected soil samples were analyzed for TPHg and TPHd by EPA method 8015M, BTEX and 8 oxygenates by EPA method 8260B. Several samples were also analyzed for total oil and grease due to proximity to the automotive service bays and high PID readings.

A monitoring well constructed of 2-inch Schedule 40 poly-vinyl chloride (PVC) with a proposed five-foot screened interval utilizing a 0.020-inch slot size was then be inserted into the borehole. While the augers were being retracted, Lonestar #2/12 sand was continually placed into the borehole until the sand pack was 1 foot above the top of the screen. Above the sand pack, 1 foot of bentonite chips was then placed in the borehole, hydrated in place, and allowed to set for approximately 20 minutes. The remainder of the annular space will be filled with neat cement to just below ground surface.

The groundwater monitoring were completed at the ground surface by first cutting and excavating a 30-inch by 30-inch square area into the asphalt or concrete surface, inserting a COP-approved 12-inch well box with reinforcing rods and filling the remaining portion of the borehole with concrete. The concrete was dyed to match the existing surface. The PVC well casing will be trimmed to an appropriate length and capped with a sealable, locking monitoring well cap.

Replacement groundwater monitoring well construction details are included on **Figure 6**. Soil Analytical Results for samples collected from the replacement monitoring wells are included in **Table 1**.

3.5.3 Well Development, Monitoring, and Sampling

On September 24, 2010, a minimum of 96 hours after construction, the above mentioned replacement monitoring wells were developed. A minimum of 10 casing volumes of groundwater were removed from the wells during development.

After development, the wells have been incorporated into the existing groundwater monitoring and sampling schedule. They will be added to the next scheduled event after development. Groundwater samples from these newly installed wells will be analyzed consistent with the current groundwater monitoring and sampling activities, TPHg and TPHd by EPA Method 8015M, (silica gel treated), BTEX and 8 oxygenates by EPA method 8260B.

3.5.4 Wellhead and Topographical Survey

Following the completion of the new monitoring wells, on September 24, 2010, a California licensed surveyor surveyed the northing and easting of the monitoring wells and soil vapor wells using elevation datum NAVD 88 with an accuracy of +/- 0.001 foot. A global positioning system (GPS) will be used to survey in the latitude and longitude of the wells to be uploaded into California's Geo Tracker database

system. When the newly installed wells were surveyed, all site wells, including the newly installed soil vapor wells were also surveyed.

3.6 SOIL AND GROUNDWATER BORINGS

3.6.1 Boring Placement

Delta advanced a total of eight (8) borings (SB-12 through SB-19) to assess the horizontal and vertical extent of petroleum hydrocarbon impact on-site.

To evaluate the hydrocarbon impact in the vicinity of the former waste oil tank, the former UST basin, and the station building, eight (8) borings were advanced using sonic drilling technology. Each boring location required two separate holes to complete the soil logging and groundwater sample collection. A total of 16 boreholes were cleared for the investigation.

During the November 10, 2010 meeting between Delta, COP, ACHCSA, and Gregg, it was agreed upon to place a boring in the southwest corner of the front parking lot of the adjacent Oakland Veterinary Clinic (SB-17). However, the approximate location of this boring has been moved based on review of historical groundwater flow direction. Moving boring SB-17 onto the service station property placed this boring directly down-gradient from MW-1. Also, upon a review of the space limitations of the parking lot of the Oakland Veterinary Clinic, placing this initial boring as originally proposed would have created a disruption to the veterinary clinic as it would have required the blocking of their front (main) entrance.

All boring and sample locations are depicted in **Figure 4**.

On June 14 through June 16, 2010, Delta oversaw the air-knife and hand auger clearance activities for the above mentioned boreholes. Site features and the presence of underground utilities created complications and warranted the relocations of some borings:

SB-14 was moved from its proposed location directly in front of the service bay door in order to lesser impede station operation. The new location was approximately 10 feet southwest toward MacArthur near historical boring SB-7.

SB-15 was moved from the proposed location due to ground slope and building clearance issues. The new location was approximately 5 feet northeast toward rear property fence.

SB-16 was moved from its proposed location due to presence of marked utilities. Its new location was approximately 5 feet southeast toward High St.

SB-17 was moved from proposed on-site location due to repeated encountering of hard subsurface material impenetrable to hand clearing methods at approximately 3 to 5 feet bgs. New location was approximately 15 feet southwest toward MacArthur Boulevard.

The remaining borings (SB-12, SB-13, SB-18, and SB-19) were advanced in their proposed locations. All borings were cleared to the required 5 foot depth.

3.6.2 Boring Advancement

On June 16 through June 18, 2010, Delta oversaw the advancement of the eight borings using a limited access drilling rig with sonic drilling equipment.

Observed groundwater levels, PID readings, soil descriptions, and field observations are recorded on the boring logs (**Appendix D**).

At boring locations SB-12 through SB-17 soil sampling was advanced to 50 feet bgs or refusal, while borings SB-18 and SB-19 were advanced to 20 feet bgs. Soil sampling borings at each location were advanced to the proposed depth except for SB-15, which met refusal at 41 feet bgs, and SB-13 with refusal at 6 feet bgs. Continuous samples were collected and logged using the Unified Soil Classification System (USCS), and samples were collected at 5 foot intervals from 5 feet to 50 feet bgs, or to refusal depth.

Soil samples were analyzed for TPHg and TPHd by EPA method 8015M, BTEX and 8 oxygenates by EPA method 8260B, and TPH as motor oil (TPHmo) by Fuel Fingerprint method. Several soil samples that contained a black staining substance were additionally analyzed for total oil and grease (TOG) as well as a full Fuel Fingerprint [TPH as light naptha (TPHln), TPH as aviation gas (TPHag), TPH as Stoddard solvent (TPHss), TPH as heavy naptha (TPHhn), TPH as JP4 jet fuel (TPHjf4), TPH as JP5 jet fuel (TPHjf5), TPH as JP8 jet fuel (TPHjf8), TPH as kerosene (TPHk), TPH as fuel oil (TPHfo), TPH as crude oil (TPHco), and TPH as WD-40 (TPHwd40)]. **Table 1** summarizes soil analytical results from the borings.

No definitive water bearing zone was revealed from soil sampling, so each groundwater sampling boring was advanced to 25 feet bgs or refusal, with 5 feet of temporary PVC screen exposed to the subsurface for depth discrete water samples. After no water was collected from SB-12, it was decided that the temporary PVC screen would be left exposed to the subsurface overnight at each subsequent location to maximize the chance of obtaining depth discrete water samples.

No water sample was collected from SB-12 screened from 20 to 25 feet bgs. SB-13 met refusal at 6 feet bgs, and no water sample was collected. SB-14 met refusal at 21 feet bgs, and was screened from 16 to 21 feet bgs, though the boring was dry upon sampling attempt. SB-15 met refusal at 24 feet bgs, and was screened from 19 to 24 feet bgs with successful water sample collection. SB-16 was advanced to 25 feet bgs and was screened from 20 to 25 feet bgs with successful water sample collection. SB-17 met refusal at 19 feet bgs, and was screened from 14 to 19 feet bgs with successful water sample collection. SB-18 and SB-19 were both advanced to 20 feet bgs, and screened from 15 to 20 feet bgs, both with successful water sample collection.

Groundwater samples were analyzed for TPHg and TPHd by EPA method 8015M, and BTEX and 8 oxygenates by EPA method 8260B, and TPHmo by EPA Fuel Fingerprint method. **Table 2** summarizes groundwater analytical results from the borings.

Each borehole was backfilled with cement grout tremmied through drill rods to just below the surface and finished at the surface with concrete dyed to match existing surface conditions. Backfill was observed by assigned ACPWA inspector.

3.7 Previously Unidentified Vault/Utility

Following the November 10, 2009 meeting with ACHCSA, Mr. James Barnard (Delta) and Mr. Terry Grayson (COP) performed a site visit to review existing site conditions and identify any potential obstacles related to the proposed soil, groundwater and soil vapor sampling locations. During this visit, a previously unidentified underground concrete vault was observed in the northwest corner of the site, in proximity to MW-1. The vault was not identified in Environmental Data Resources (EDRs) or Sandborn Fire Insurance maps of the parcel. Construction detail and historical use is unknown. The vault is of unknown depth and is currently filled with sand. A two foot long field instrument was used to probe the sand, and was unable to locate the bottom of the vault. When the instrument was removed from the sand a faint hydrocarbon odor was noted.

Delta inspected the vault further, and found that underneath the metal lid there is what appears to be a sewer cleanout. The age and deterioration of the "cleanout" cap caused Delta to be unable to open and better identify the structure. In an attempt to better assess this structure, Delta used ground penetrating radar (GPR) to attempt to identify utility lines running to and from this "cleanout". A line running from the restroom area of the building to the "cleanout" was identified, but no line running from the "cleanout" to the sewer main approximately 6 feet to the north could be identified. This, unfortunately, leaves the identity of this structure still undetermined. The only way to positively identify the nature of this structure is to open the "cleanout" lid, but it is highly likely that the structure would be destroyed or badly damaged in the process due to age and deterioration, as mentioned above.

The scope of work originally proposed in Delta's *Workplan for Additional Assessment*, dated March 1, 2010, proposed a sonic boring within the vault itself. However, the discovery of the structure inside the vault made this impossible. Borings SB-18 and SB-19 were added to the scope of work from the original proposal of the work plan in order to better assess impact surrounding this subsurface structure. SB-18 was advanced to 20 feet bgs between the vault and the former waste oil UST, and SB-19 was advanced to 20 feet bgs between the vault and MW-1.

3.8 DISPOSAL OF DRILL CUTTINGS AND WASTEWATER

Drill cuttings and wastewater generated during proposed soil, groundwater and soil vapor assessment activities will be placed into properly labeled 55-gallon Department of Transportation (DOT) approved steel drums and temporarily stored at the service station site. Samples of the drill cuttings and wastewater will be collected, properly labeled and placed on ice for submittal to a California-certified laboratory and analyzed for TPHg and TPHd by EPA Method 8015M and BTEX, and MTBE by EPA Method 8260B. Additionally, soil samples will also be analyzed for CAM 17 metals by EPA Method 6010. A chain-of-custody will accompany the samples during transportation to the laboratory. Subsequent to receiving the laboratory analytical results, the drummed drill cuttings and wastewater will be profiled, transported, and disposed of at a COP approved facility.

4.0 SUMMARY OF FINDINGS

Constituent concentrations in soil, groundwater, and soil vapor are discussed below, including Environmental Screening Level (ESL) values. For soil and groundwater, ESLs are based on limits for residential land use where soil is greater than 3 meters deep, and groundwater is a current or potential source of drinking water. For soil vapor, ESL values are based on shallow soil gas screening levels.

Summaries of soil, grab groundwater, and soil vapor analytical results are included as **Tables 1 through 3**. Site maps with TPHg, TPHd, benzene, and MTBE concentrations in soil above Environmental Screening Levels (ESLs) are presented as **Figures 7 through 10**, respectively. A site map with TPHg, TPHd, benzene, and MTBE concentrations in grab groundwater above ESLs is presented as **Figure 11**. A site maps with TPHg, TPHd, benzene, and MTBE concentrations in soil vapor above ESLs is presented as **Figure 12**. Certified laboratory analytical reports are included as **Appendix G**.

4.1 SOIL ANALYTICAL RESULTS

A total of 57 soil samples were collected from the eight sonic borings, and a total of 20 soil samples were collected from the four replacement monitoring wells. Soil sampling results above the ESLs are presented below.

TPHg: TPHg was above the ESL value of 83 mg/kg in five of the twelve boring and replacement monitoring well locations, at various depths. SB-13 had concentrations of 680 mg/kg at 6 feet bgs. SB-17 had concentrations of 530 mg/kg at 5 feet bgs and 130 mg/kg at 10 feet bgs. MW-1B had concentrations of 210 mg/kg, 270 mg/kg, and 200 mg/kg at depths of 5, 15, and 20 feet bgs, respectively. MW-3B had concentrations of 310 mg/kg at 15 feet bgs. MW-4B had concentrations of 840 mg/kg and 150 mg/kg at depths of 15 and 25 feet bgs, respectively.

TPHd: TPHd was above ESL values of 83 mg/kg in five of the twelve boring and replacement well locations at various depths. SB-12 had concentrations of

ND<100 mg/kg at 15 feet bgs. SB-16 had concentrations of ND<99 mg/kg at 15 feet bgs. MW-1B had concentrations of 110 mg/kg and ND<200 mg/kg at 15 and 20 feet bgs, respectively. MW-2B had concentrations of ND<200 mg/kg, ND<200 mg/kg, and ND<1200 mg/kg at depths of 5, 15, and 20 feet bgs, respectively. MW-3B had concentrations of 150 mg/kg at 15 feet bgs. Non-detect values in which the detection limit is above the ESL value are counted as being above ESL limits.

TPHmo: TPHmo was not above the ESL value of 5000 mg/kg in any sample collected, though SB-12, SB-14, and SB-17 were reported with elevated concentrations in the 5 to 20 feet bgs range, as compared to other sampling locations. Maximum concentration in SB-12 was 830 mg/kg. Maximum concentration in SB-14 was 100 mg/kg. Maximum concentration in SB-17 was 130 mg/kg.

Benzene: Benzene was above the ESL value of 0.044 mg/kg in nine of the twelve boring and replacement well locations. SB-12 had concentrations of 0.11 mg/kg, 0.081 mg/kg, 0.29 mg/kg, and 0.052 mg/kg at depths of 5, 10, 15, and 20 feet bgs, respectively. SB-14 had concentrations of 0.073 mg/kg, 0.28 mg/kg, and 0.097 mg/kg at depths of 8, 10, and 15 feet bgs, respectively. SB-17 had concentrations of 0.11 mg/kg and 0.088 mg/kg at depths of 20 and 47 feet bgs, respectively. SB-18 had concentrations of 5 mg/kg at 15 feet bgs. SB-19 had concentrations of ND<0.050 mg/kg at depths of 7.5 and 10 feet bgs, respectively. MW-1B had concentrations of 1.1 mg/kg, 3.3 mg/kg, ND<2.5 mg/kg, and 0.23 mg/kg at depths of 5, 10, 15, and 20 feet bgs, respectively. MW-2B had concentrations of 0.076 mg/kg at 20 feet bgs. MW-3B had concentrations of ND<5 mg/kg and ND<0.12 mg/kg at depths of 15 and 20 feet bgs, respectively. MW-4B had concentrations of ND0.050 mg/kg, ND<0.050 mg/kg, and ND<0.12 mg/kg at depths of 15, 20, and 25 feet bgs, respectively.

MTBE: MTBE was above the ESL value of 0.023 mg/kg in eleven of the twelve borings and replacement well locations at various depths. SB-12 had concentrations of ND<0.025 mg/kg at 41 feet bgs. SB-13 had concentrations of ND<0.050 mg/kg at 6 feet bgs. SB-14 had concentrations of 0.0088 mg/kg, 0.033 mg/kg, and 0.031 mg/kg at depths of 8, 10, and 15 feet bgs, respectively. SB-16 had concentrations of ND<0.025 mg/kg and 0.041 mg/kg at depths of 8 and 30 feet bgs, respectively. SB-17 had concentrations of 0.024 mg/kg, 0.011 mg/kg, and ND<0.050 mg/kg at depths of 10, 20, and 40 feet bgs, respectively. SB-18 had concentrations of ND<0.050 mg/kg and ND<0.25 at depths of 10 and 15 feet, respectively. SB-19 had concentrations of ND<0.050 at depths of 5 and 10 feet bgs. MW-1B had concentrations of 0.3 mg/kg, ND<2.5 mg/kg, and 0.061 mg/kg at depths of 10, 15, and 20 feet bgs, respectively. MW-2B had concentrations of 0.03 mg/kg, 0.25 mg/kg, and 0.099 mg/kg at depths of 5, 15, and 20 feet bgs, respectively. MW-3B had concentrations of ND<5 mg/kg and ND<0.012 mg/kg at depths of 15 and 20 feet bgs, respectively. MW-4B had concentrations of ND<0.025 mg/kg,

ND<0.050 mg/kg, and ND<0.12 mg/kg at depth of 10, 15, and 20 feet bgs, respectively.

TBA: TBA was above the ESL value of 0.075 mg/kg in three of the twelve boring and replacement well locations at various depths. SB-12 had concentrations of 0.11 mg/kg and 0.091 mg/kg at depths of 6 and 10 feet bgs, respectively. SB-14 had concentrations of 0.093 mg/kg and 0.081 mg/kg at depths of 10 and 15 feet bgs, respectively. SB-17 had concentrations of 0.17 mg/kg and 0.13 mg/kg at depths of 10 and 15 feet bgs, respectively.

Other Fuel Oxygenates: EDB, 1,2-DCA, TAME, DIPE, ETBE, and ethanol were below laboratory indicated reporting limits in all samples collected, except for 0.3 mg/kg 1,2-DCA in MW-1B at 5 feet bgs. ESLs values are not given for many of these constituents, or as in the case of 1,2-DCA, the reporting limit (<0.0050 mg/kg) is higher than the ESL (0.0045 mg/kg).

4.2 Grab Groundwater Analytical Results

A total of five grab groundwater samples were collected from borings SB-15, SB-16, SB-17, SB-18, and SB-19. Grab groundwater sampling results above ESLs are as follows:

TPHg was above the ESL value of 100 µg/L in three of the five grab groundwater samples collected. Concentrations were reported in SB-17 (260 µg/L), SB-18 (1,900 µg/L), and SB-19 (1,100 µg/L).

TPHd was above the ESL value of 100 µg/L in four of the five grab groundwater samples collected. Concentrations were reported in SB-16 (150 µg/L), SB-17 (260 µg/L), SB-18 (720 µg/L), and SB-19 (230 µg/L).

Benzene was above the ESL value of 1.0 µg/L in four of the five grab groundwater samples collected. Concentrations were reported in SB-16 (140 µg/L), SB-17 (8.7 µg/L), SB-18 (94 µg/L), and SB-19 (8.6 µg/L).

MTBE was above the ESL value of 5.0 µg/L in all of the five grab groundwater samples collected. Concentrations were reported in SB-15 (29 µg/L), SB-16 (460 µg/L), SB-17 (82 µg/L), SB-18 (180 µg/L), and SB-19 (93 µg/L).

1,2-DCA was above the ESL value of 0.5 µg/L in two of the five grab groundwater samples collected. Concentrations were reported in SB-16 (23 µg/L) and SB-17 (14 µg/L).

TBA was above the ESL value of 12 µg/L in two of the five grab groundwater samples collected. Concentrations were reported in SB-16 (730 µg/L) and SB-17 (640).

Other Fuel Oxygenates (EDB, TAME, DIPE, ETBE, and ethanol) were all below laboratory indicated reporting limits, and if applicable, below ESL values.

4.3 SOIL GAS ANALYTICAL RESULTS

A total of 5 soil gas samples were collected and analyzed from SVW-1, SVW-2, SVW-3, SVW-5, and SVW-6. SVW-4 was not sampled due to water intrusion. Soil vapor sampling results above ESLs are presented below.

The primary finding was that the soil gas contained oxygen well below atmospheric levels (20% - 21%) in the upper soil layers (5 bgs). Oxygen levels ranged from 1.1% in SVW-3, near MW-1, to 11% in SVW-1, near the current waste oil AST. The clayey soil affects diffusion of atmospheric oxygen such that in areas where the upper soil layers are more clayey, less oxygen is observed.

Soil gas field sampling results indicated the concentrations of the chemicals of concern were as follows:

TPHg was above the ESL value of 10,000 $\mu\text{g}/\text{m}^3$ in soil vapor samples collected from SVW-2 (78,000,000 $\mu\text{g}/\text{m}^3$), SV-3 (250,000,000 $\mu\text{g}/\text{m}^3$), SVW-5 (320,000,000 $\mu\text{g}/\text{m}^3$), and SVW-6 (420,000,000 $\mu\text{g}/\text{m}^3$).

Benzene was above the ESL value of 84 $\mu\text{g}/\text{m}^3$ in soil vapor samples collected from SVW-2 (ND<20,000 $\mu\text{g}/\text{m}^3$), SVW-3 (1,100,000 $\mu\text{g}/\text{m}^3$), SVW-5 (540,000 $\mu\text{g}/\text{m}^3$), and SVW-6 (1,000,000 $\mu\text{g}/\text{m}^3$).

Toluene was below the ESL value of 63,000 $\mu\text{g}/\text{m}^3$ in soil vapor samples collected from all of the 5 sampled wells.

Ethylbenzene was above the ESL value of 980 $\mu\text{g}/\text{m}^3$ in the soil vapor samples collected from SVW-2 (35,000 $\mu\text{g}/\text{m}^3$), SVW-3 (610,000 $\mu\text{g}/\text{m}^3$), SVW-5 (23,000 $\mu\text{g}/\text{m}^3$), and SVW-6 (240,000 $\mu\text{g}/\text{m}^3$).

Total Xylenes were above the ESL value of 21,000 $\mu\text{g}/\text{m}^3$ in the soil vapor samples collected from SVW-2 (99,000 $\mu\text{g}/\text{m}^3$), SVW-3 (820,000 $\mu\text{g}/\text{m}^3$), SVW-5 (ND<32,000 $\mu\text{g}/\text{m}^3$), and SVW-6 (170,000 $\mu\text{g}/\text{m}^3$).

MTBE was below laboratory indicated reporting limits in all samples collected, however, reporting limits were above the ESL value of 9,400 $\mu\text{g}/\text{m}^3$ in samples collected from wells SVW-2 (ND<15,000 $\mu\text{g}/\text{m}^3$), SVW-3 (ND<18,000 $\mu\text{g}/\text{m}^3$), SVW-5 (ND<27,000 $\mu\text{g}/\text{m}^3$), and SVW-6 (ND<37,000 $\mu\text{g}/\text{m}^3$).

EDB was below laboratory indicated reporting limits in all samples collected, however reporting limits were above the ESL value of 4.1 $\mu\text{g}/\text{m}^3$ in samples collected from wells SVW-1 (ND<31 $\mu\text{g}/\text{m}^3$), SVW-2 (ND<32,000 $\mu\text{g}/\text{m}^3$), SVW-3 (ND<37,000 $\mu\text{g}/\text{m}^3$), SVW-5 (ND<57,000 $\mu\text{g}/\text{m}^3$), and SVW-6 (ND<78,000 $\mu\text{g}/\text{m}^3$).

1,2-DCA was below laboratory indicated reporting limits in all samples collected, however reporting limits were above the ESL value of 94 $\mu\text{g}/\text{m}^3$ in samples collected from wells SVW-2 (ND<25,000 $\mu\text{g}/\text{m}^3$), SVW-3 (ND<30,000 $\mu\text{g}/\text{m}^3$), SVW-5 (ND<45,000 $\mu\text{g}/\text{m}^3$), and SVW-6 (ND<62,000 $\mu\text{g}/\text{m}^3$).

Other Fuel Oxygenates (TAME, TBA, DIPE, ETBE, and Ethanol) were all below laboratory indicated reporting limits in all samples collected. No ESL values have been established for these constituents.

Carbon dioxide was reported in the soil vapor samples collected from SVW-1 [4.4% by volume (%V)], SVW-2 (14%V), SVW-3 (11%V), SVW-5 (13%V), and SVW-6 (16%V).

Methane was reported in the soil vapor samples collected from SVW-2 (8.1 %V), SVW-3 (38%V), SVW-5 (7.5%V), and SVW-6 (27%V).

IPA was used as a leak detection compound, and was below laboratory indicated reporting limits in all samples collected. Non-detection on leak detection compound indicates that the soil vapor analytical results should be considered valid.

5.0 DISCUSSION AND RECOMMENDATIONS

Field work was conducted during the week of July 6th through July 10th, 2009, and again on August 11, 2009, in order to assess the horizontal and vertical potential for petroleum hydrocarbon migration in the soil, groundwater, and soil gas. These investigations were conducted to determine if a pathway existed between the former gasoline UST pit and MW-1, to adjust the effective screen interval of the onsite monitoring wells, and to assess the soil vapor intrusion risk to the Oakland Veterinary Clinic to the Northwest of the station. A total of eight sonic borings were sited along the northwest, northeast, and southeast portions of the station building, 6 soil vapor wells were installed along the northwest portion of the station, and the four onsite monitoring wells were abandoned and reinstalled with a more appropriate screen interval.

Subsurface geology consists almost entirely of clay that contains discontinuous stringers or small deposits of sandy clay and clayey sand to the maximum depth explored, 50.5 feet bgs. This discontinuity of sandy clay/clayey sand stringers or deposits is demonstrated in the boring.

Groundwater samples were collected from SB-15, SB-16, SB-17, SB-18, and SB-19 (**Table 2**). SB-18, located between the unknown vault location and the former waste oil UST on the northwest side of the station building had the highest concentrations of petroleum hydrocarbons. SB-15, located near the current waste oil AST, on the northeast side of the station building, had the lowest concentrations. Though no grab groundwater samples were able to be collected from SB-14

(between former gasoline USTs and MW-1), soil samples from this boring had low concentrations of TPHg. While BTEX concentrations were above ESLs, elevated concentrations of TPHmo in SB-14 and SB-12 indicate that impact in these locations is more likely due to the former waste oil UST, as well as the active vehicle service station, rather than via a preferred pathway between the former gasoline UST pit and MW-1.

Of the six vapor wells installed, extractable soil vapor samples were collected from only five SVW-1, SVW-2, SVW-3, SVW-5, and SVW-6 (**Table 3**). The soil vapor wells that were sampled contained very high concentrations of petroleum hydrocarbons. SVW-3, located on the western most corner station building near MW-1, SVW-5, located northwest of the station building near the former waste oil UST, and SVW-6, located at the southwest edge of the station building, had the highest concentrations of petroleum hydrocarbons, specifically TPHg and benzene. MTBE was not detected in the soil vapor analyses, though reporting limits were higher than ESL values in many cases. Vapor intrusion into nearby adjacent properties will be assessed once off-site access agreements are in place.

Analysis of the data gathered indicates that the highest concentration of petroleum hydrocarbons in groundwater occurs in the vicinity of SB-17, SB-18, and SB-19. Though concentrations of petroleum hydrocarbons exist in the clay soil, little can be done to eliminate or reduce these concentrations due to the tight structure of the clay with the exception of site excavation.

Moving forward, Delta will examine the feasibility of alternative remediation methods, for future implementation at this site.

5.0 LIMITATIONS AND CERTIFICATIONS

This report was prepared in accordance with the scope of work outlined in Delta's contract and with generally accepted professional engineering and environmental consulting practices existing at the time this report was prepared and applicable to the location of the site. It was prepared for the exclusive use of ConocoPhillips for the expressed purpose stated above. Any re-use of this report for a different purpose or by others not identified above shall be at the user's sole risk without liability to Delta. To the extent that this report is based on information provided to Delta by third parties, Delta may have made efforts to verify this third party information, but Delta cannot guarantee the completeness or accuracy of this information. The opinions expressed and data collected are based on the conditions of the site existing at the time of the field investigation. No other warranties, expressed or implied, are made by Delta.

CONSULTANT: Delta Consultants

FIGURES

- Figure 1 – Site Locator Map
- Figure 2 – Site Plan with Historical Sampling Locations
- Figure 3 – Site Plan with Current Wells
- Figure 4 – Site Plan with Current Investigation Boring and Well Locations
- Figure 5 – Soil Vapor Well Construction Detail
- Figure 6 – Replacement Monitoring Well Construction Detail
- Figure 7 – Site Map with TPHg Concentrations Above ESLs
- Figure 8 – Site Map with TPHd Concentrations Above ESLs
- Figure 9 – Site Map with Benzene Concentrations Above ESLs
- Figure 10 – Site Map with MTBE Concentrations Above ESLs
- Figure 11 – Site Map with TPHg, TPHd, Benzene, and MTBE Concentrations in Grab Groundwater Above ESLs
- Figure 12 – Site Map with TPHg, TPHd, Benzene, and MTBE Concentrations in Soil Vapor Above ESLs

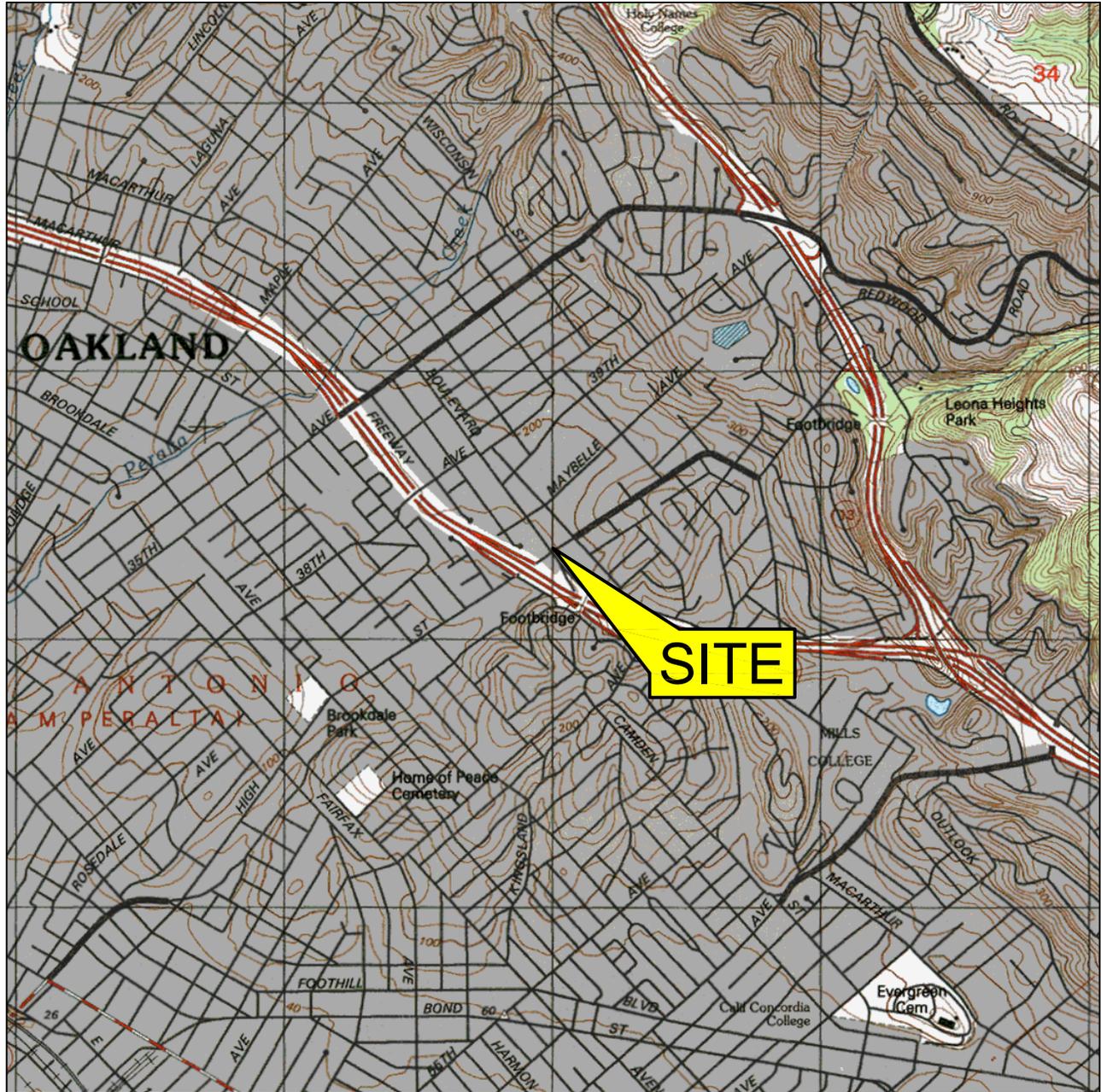
TABLES

- Table 1 – Soil Analytical Results
- Table 2 – Grab Groundwater Analytical Results
- Table 3 – Soil Vapor Analytical Results

APPENDICES

- Appendix A – ACHCSA Letter dated October 15, 2009
- Appendix B – ACHCSA Letter dated April 15, 2010
- Appendix C – Email from Jerry Wickham to James Barnard and Terry Grayson dated May 13, 2010
- Appendix D – DWR Well Completion and Well Abandonment Reports
- Appendix E – Boring Logs for Soil Borings, Replacement Monitoring Wells, and Soil Vapor Wells
- Appendix F – Boring Logs for Abandoned Monitoring Wells
- Appendix G – Certified Laboratory Reports

FIGURES



0 1000 FT 2000 FT
 SCALE: 1 : 24,000



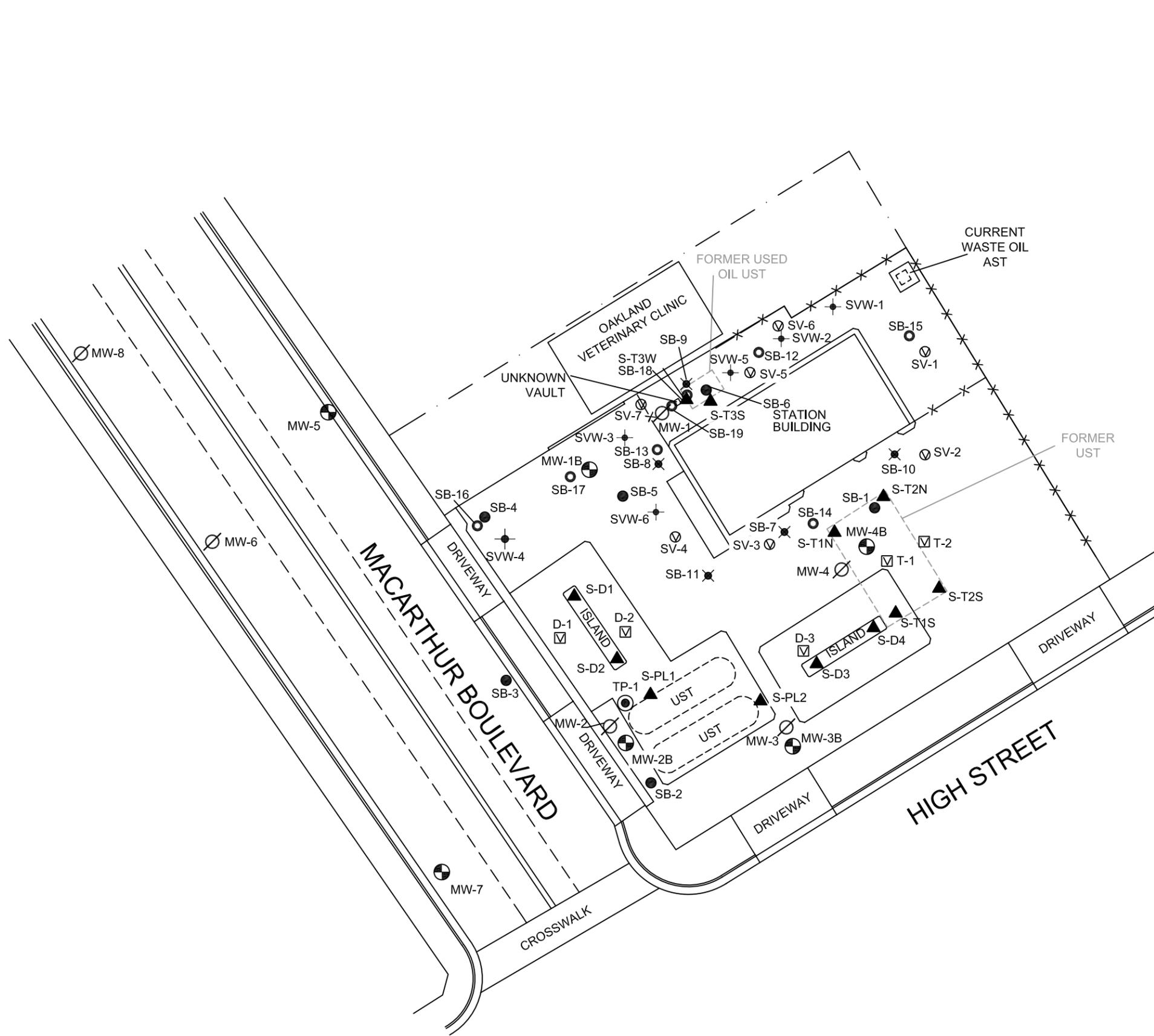
FIGURE 1
 SITE LOCATOR MAP

76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 03/01/07
FILE NO. Site Locator	PREPARED BY MC
REVISION NO.	REVIEWED BY



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE, 1967



- LEGEND**
- ⊕ GROUNDWATER MONITORING WELL
 - ∅ ABANDONED GROUNDWATER MONITORING WELL
 - ⊙ TANK PIT BACKFILL WELL
 - ⊕ SOIL VAPOR WELL
 - SOIL BORING (DELTA, 2010)
 - ⊗ SOIL & GROUNDWATER SAMPLE LOCATION (DELTA, 2009)
 - ⊕ SOIL VAPOR SAMPLE LOCATION (DELTA, 2009)
 - SOIL & GROUNDWATER BORING LOCATION (DELTA, 2007)
 - ▲ SOIL SAMPLE LOCATION (TOSCO, 1998)
 - ⊕ SOIL VAPOR SAMPLE LOCATION (PACIFIC, 1997)
 - x—x—x FENCE

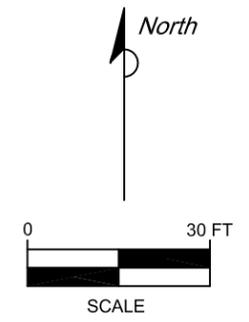


FIGURE 2
SITE MAP WITH HISTORICAL SAMPLING LOCATIONS
 76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 08/26/10	
FILE NO. 76-1156S	PREPARED BY AB	
REVISION NO. 0	REVIEWED BY JB	

- LEGEND**
-  GROUNDWATER MONITORING WELL
 -  SOIL VAPOR WELL
 -  FENCE

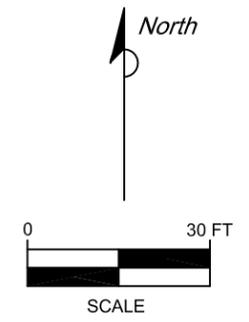
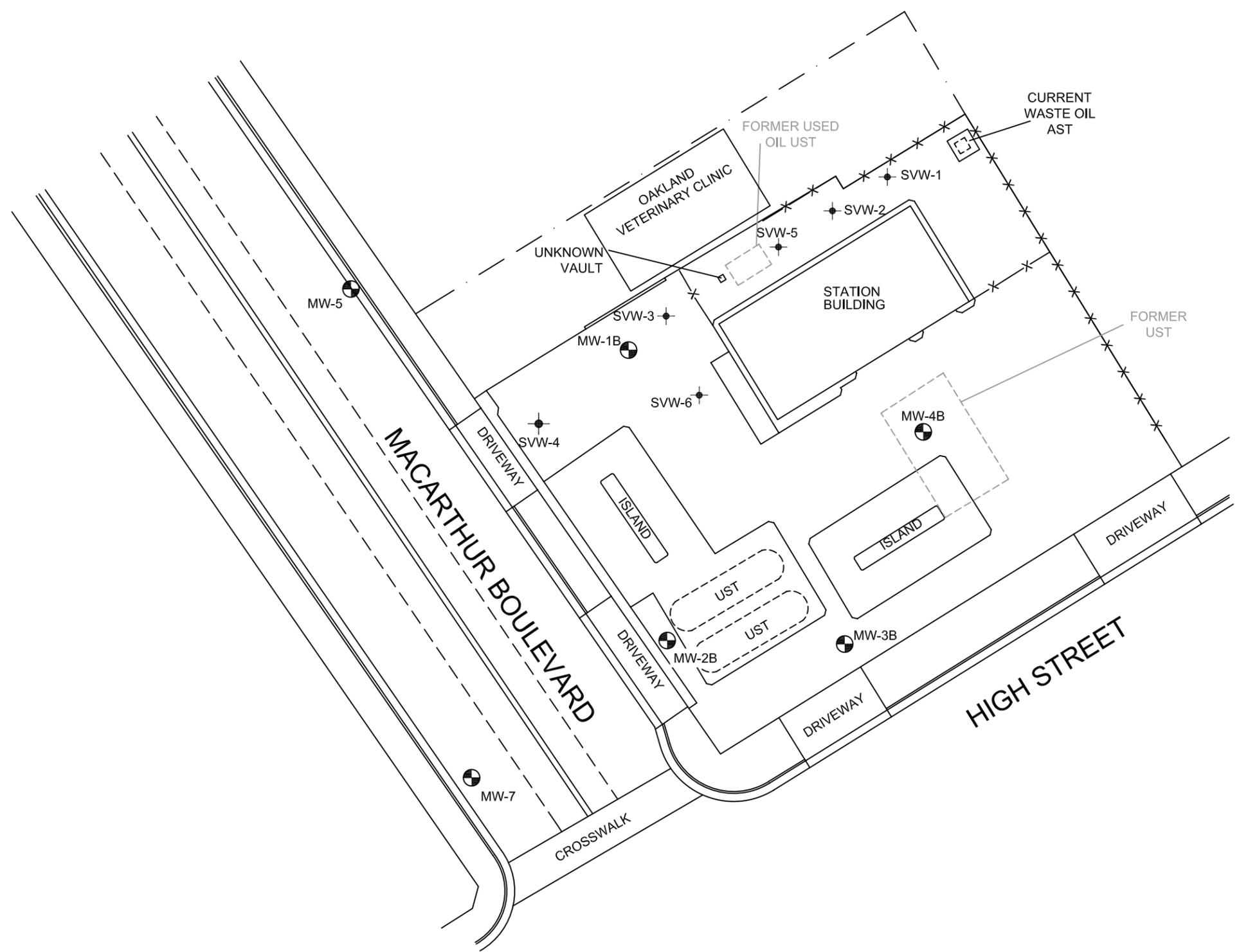


FIGURE 3
SITE MAP WITH CURRENT ON-SITE WELLS
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 08/26/10	
FILE NO. 76-1156S	PREPARED BY AB	
REVISION NO. 0	REVIEWED BY JB	

LEGEND

-  GROUNDWATER MONITORING WELL
-  ABANDONED GROUNDWATER MONITORING WELL
-  SOIL VAPOR WELL
-  SOIL BORING (DELTA, 2010)
-  FENCE

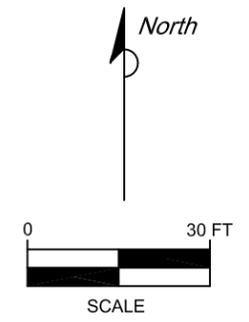
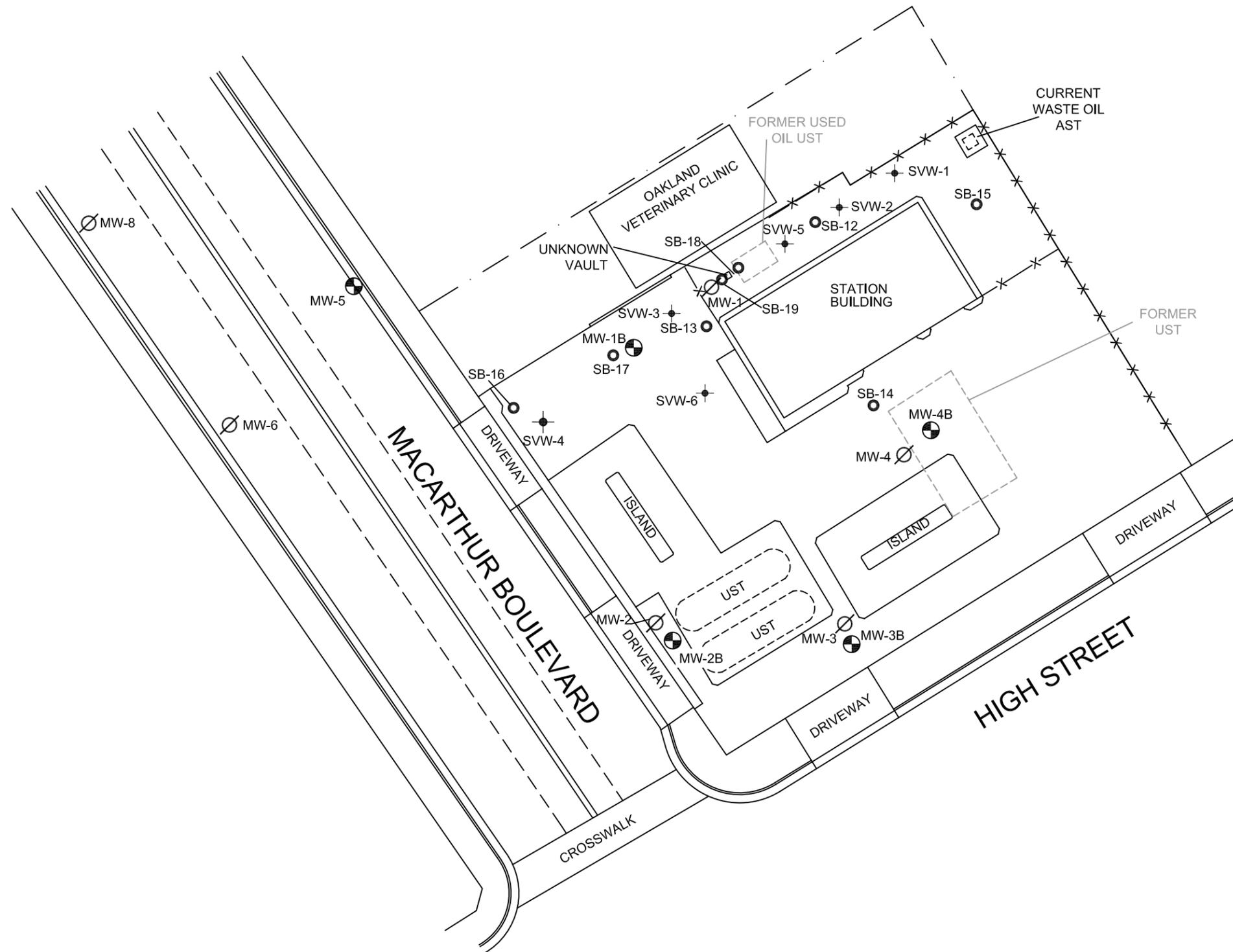


FIGURE 4
SITE MAP WITH CURRENT
INVESTIGATION SAMPLING LOCATIONS
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 08/26/10
FILE NO. 76-1156S	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



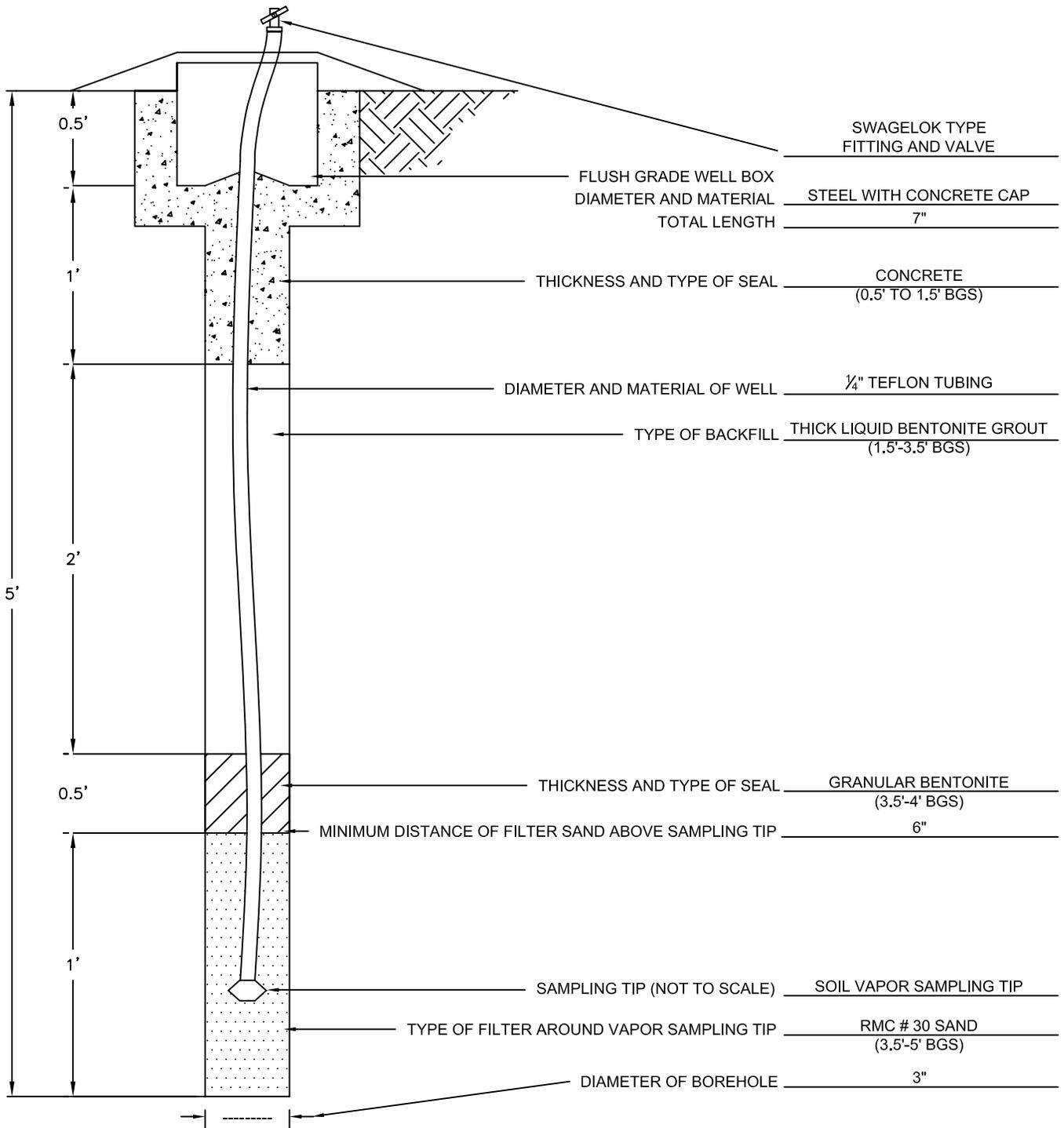


FIGURE 5
SOIL GAS WELL
CONSTRUCTION DETAIL
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



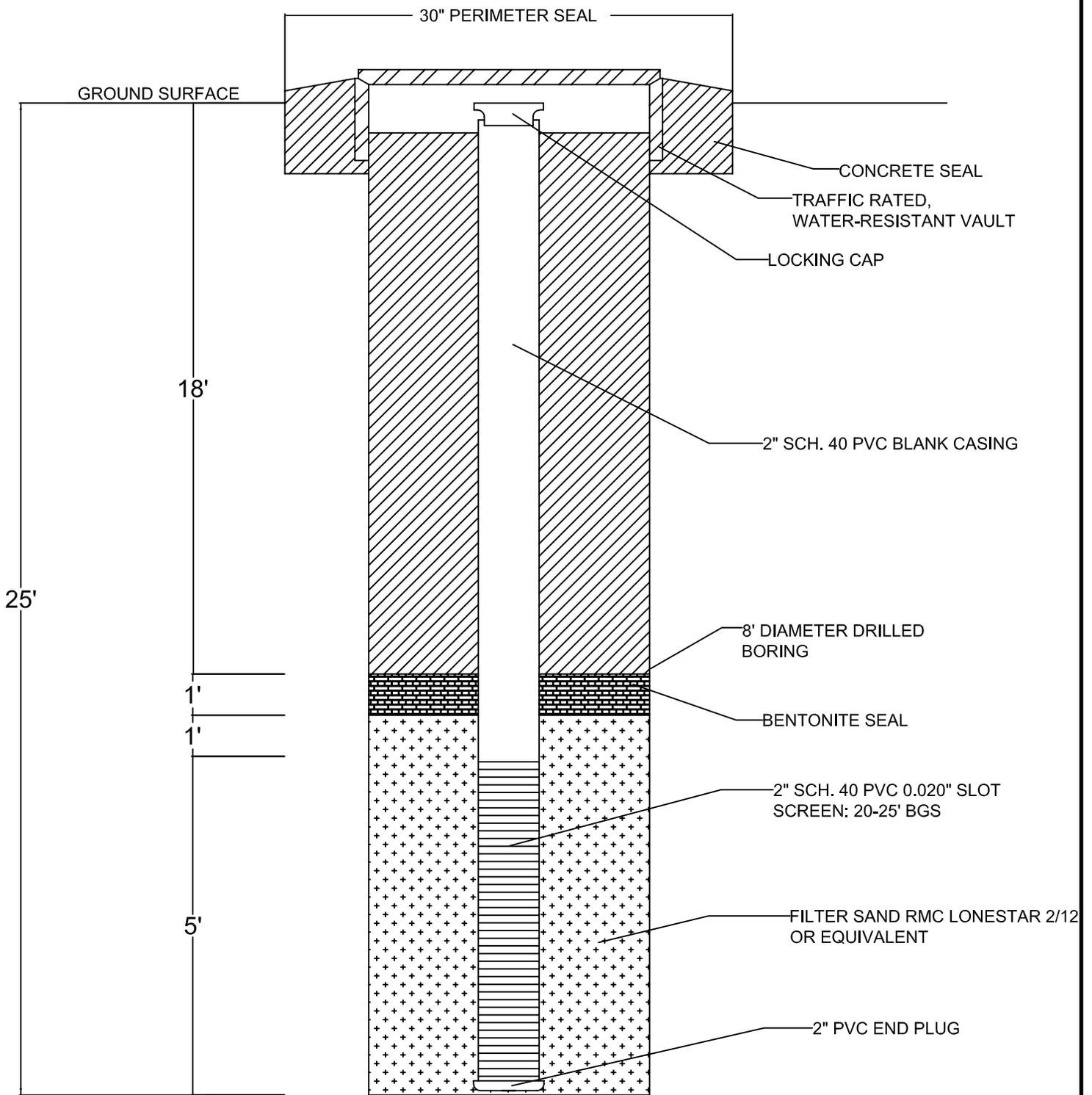


FIGURE 6
 REPLACEMENT GROUNDWATER MONITORING
 WELL CONSTRUCTION DETAIL
 76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



LEGEND

-  GROUNDWATER MONITORING WELL
-  ABANDONED GROUNDWATER MONITORING WELL
-  SOIL VAPOR WELL
-  SOIL BORING (DELTA, 2010)
-  FENCE

NOTES:

CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/kg).

- TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- MTBE = METHYL TERTIARY BUTYL ETHER
- ESL = ENVIRONMENTAL SCREENING LEVEL

ESL VALUES

- TPHg = 83 mg/kg
- TPHd = 83 mg/kg
- BENZENE = 0.044 mg/kg
- MTBE = 0.023 mg/kg

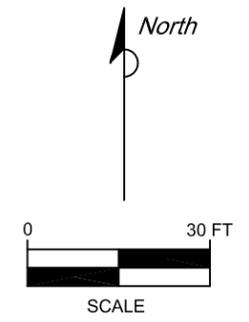
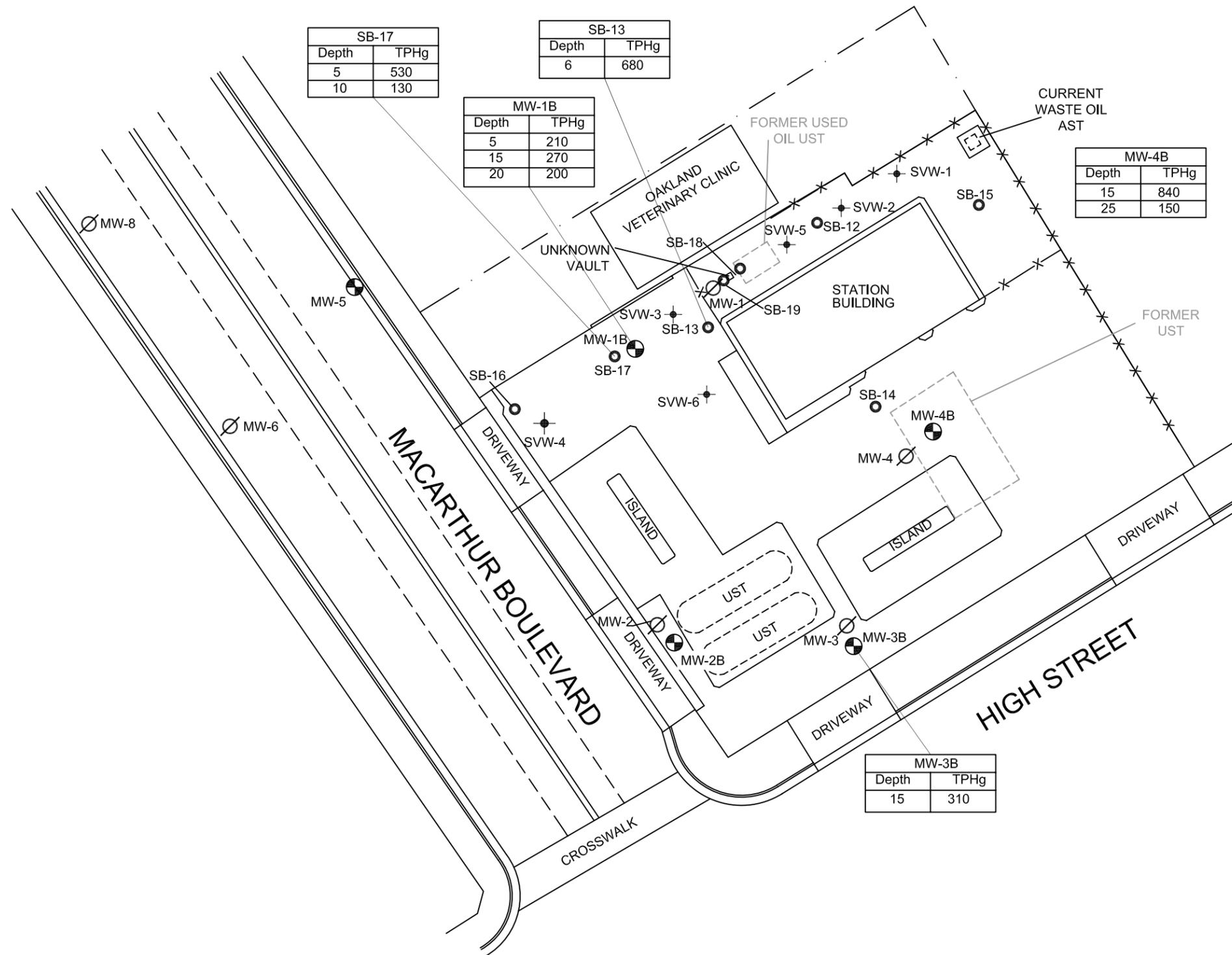
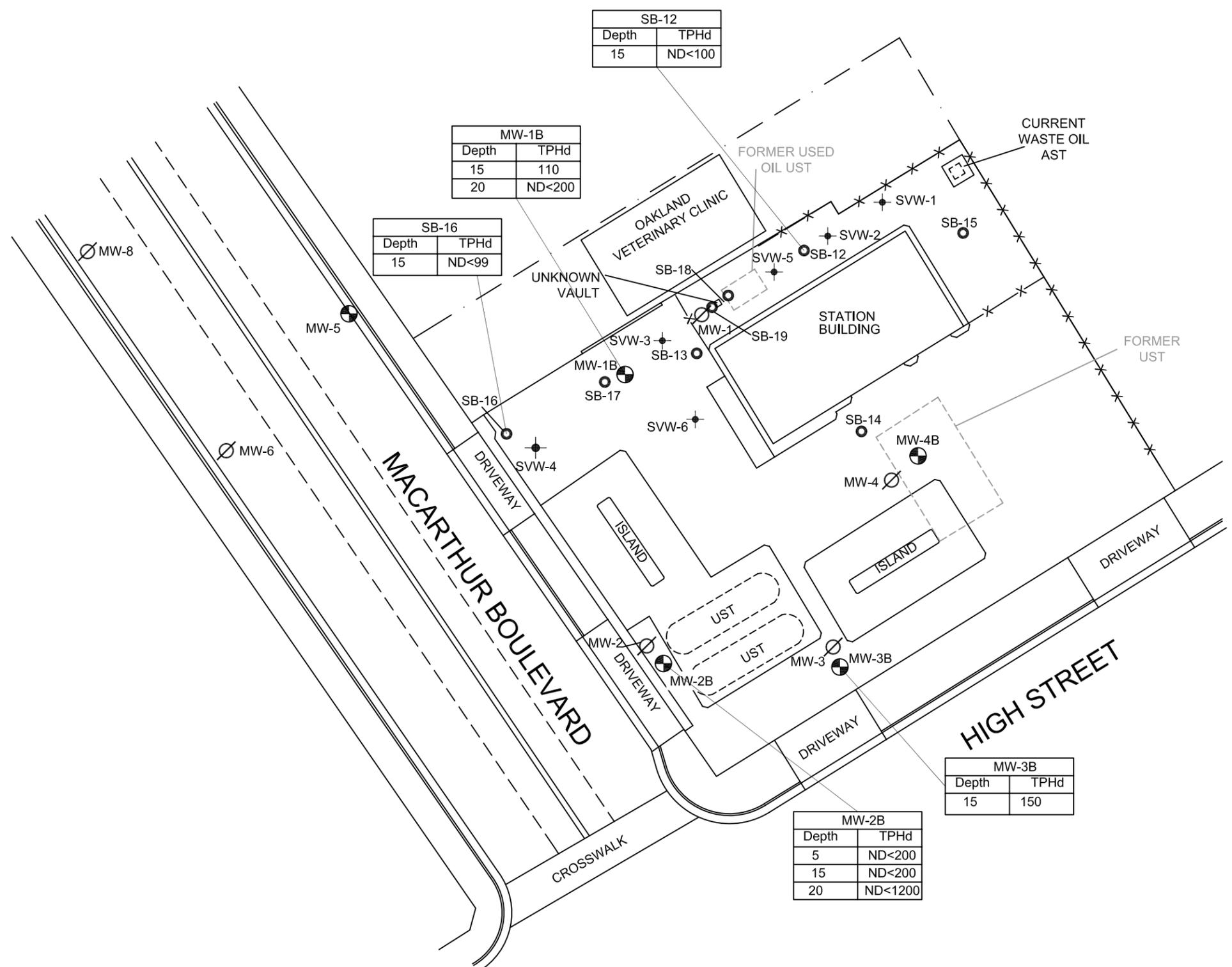


FIGURE 7
SITE MAP WITH TPHg
CONCENTRATIONS IN SOIL ABOVE ESLs
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 09/20/10
FILE NO. 76-1156S	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB





- LEGEND**
- GROUNDWATER MONITORING WELL
 - ABANDONED GROUNDWATER MONITORING WELL
 - SOIL VAPOR WELL
 - SOIL BORING (DELTA, 2010)
 - FENCE

NOTES:

CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/kg).

ND<100 = LESS THAN LABORATORY INDICATED REPORTING LIMITS
 TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 MTBE = METHYL TERTIARY BUTYL ETHER
 ESL = ENVIRONMENTAL SCREENING LEVEL

ESL VALUES

TPHg = 83 mg/kg
 TPHd = 83 mg/kg
 BENZENE = 0.044 mg/kg
 MTBE = 0.023 mg/kg

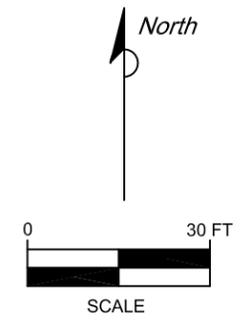


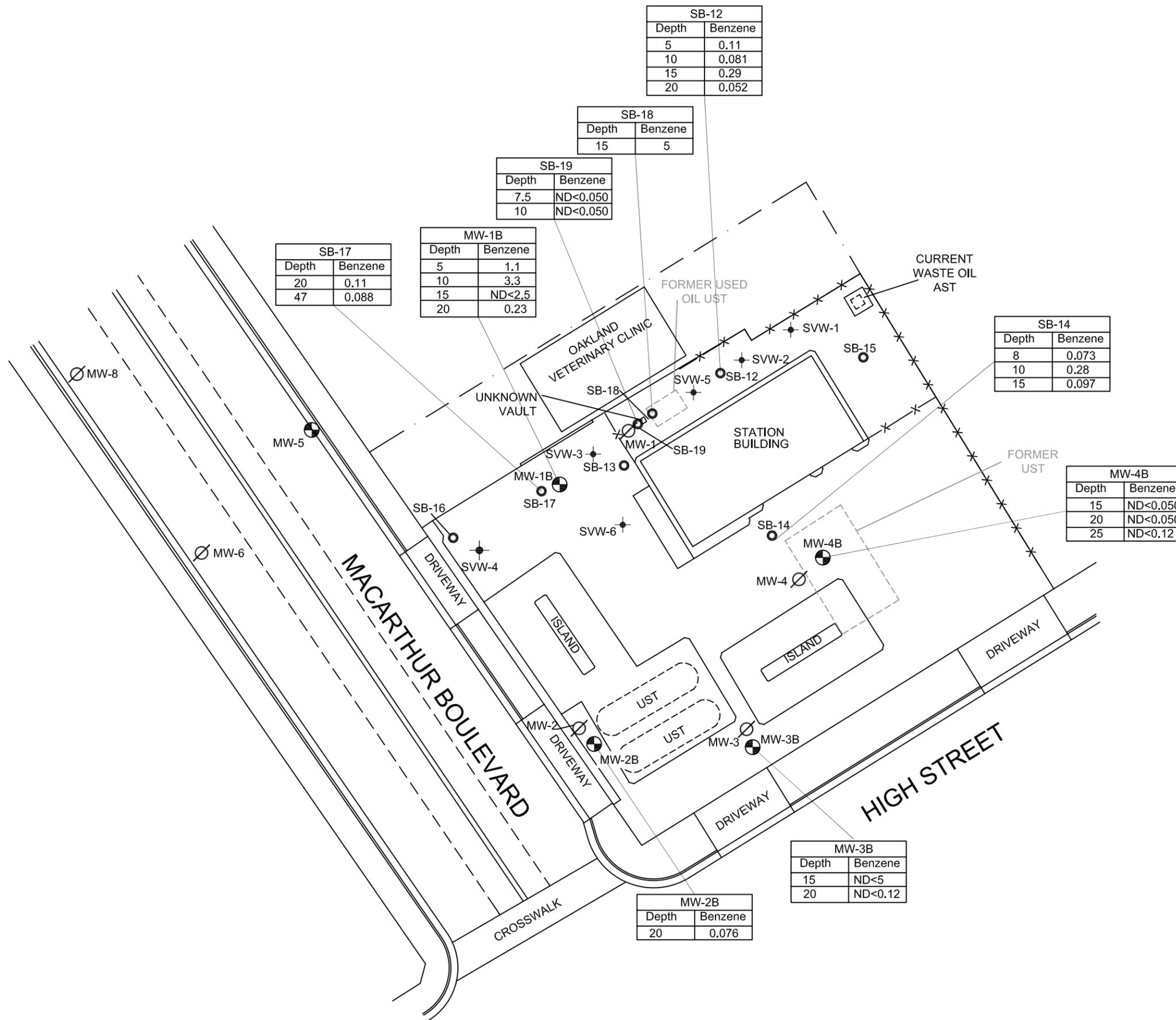
FIGURE 8

SITE MAP WITH TPHd CONCENTRATIONS IN SOIL ABOVE ESLs

76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 09/20/10
FILE NO. 76-1156S	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB





LEGEND

-  GROUNDWATER MONITORING WELL
-  ABANDONED GROUNDWATER MONITORING WELL
-  SOIL VAPOR WELL
-  SOIL BORING (DELTA, 2010)
-  FENCE

NOTES:

CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/kg).

ND<5 = LESS THAN LABORATORY INDICATED REPORTING LIMITS

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL

MTBE = METHYL TERTIARY BUTYL ETHER

ESL = ENVIRONMENTAL SCREENING LEVEL

ESL VALUES

TPHg = 83 mg/kg

TPHd = 83 mg/kg

BENZENE = 0.044 mg/kg

MTBE = 0.023 mg/kg

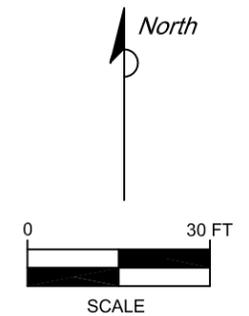
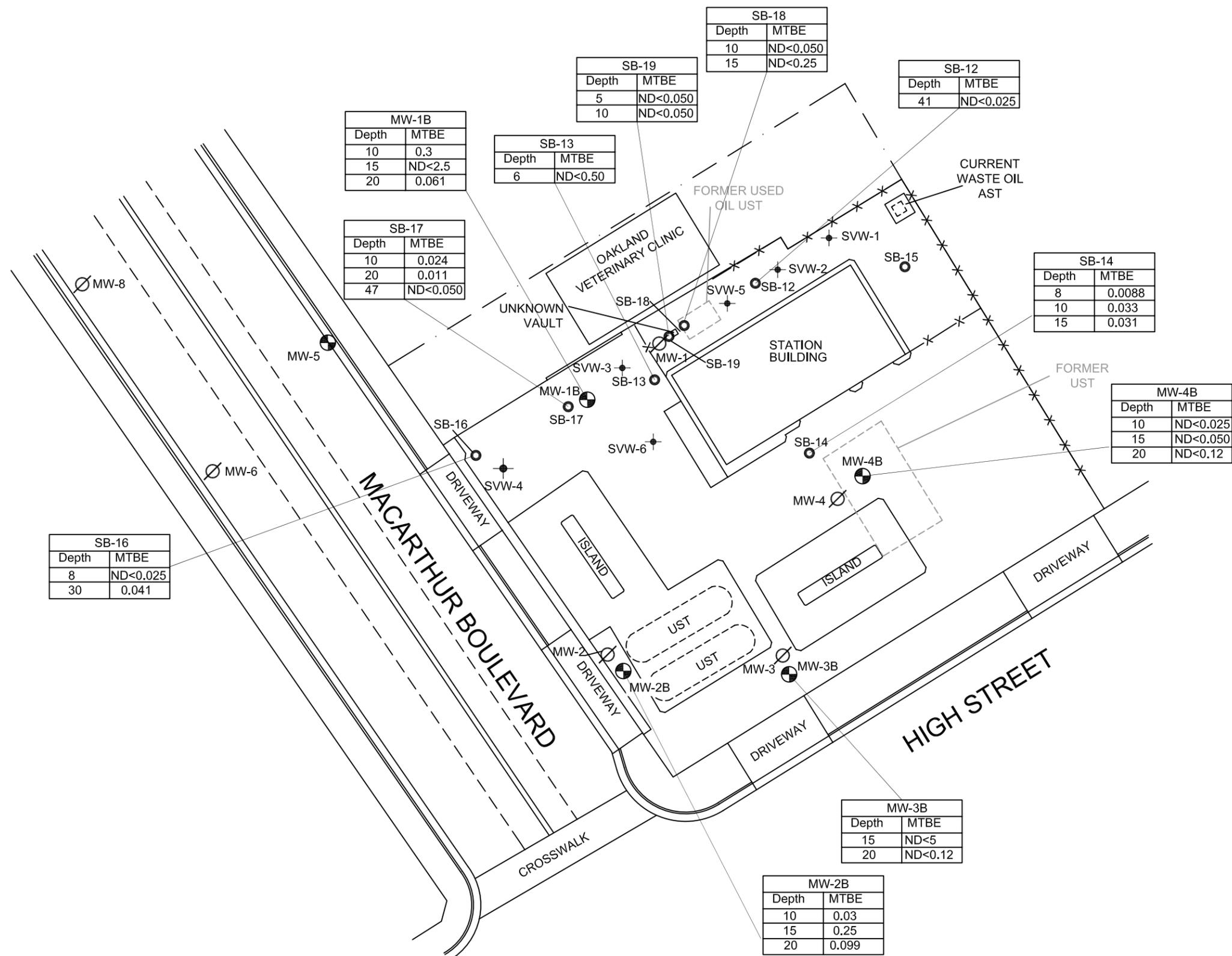


FIGURE 9
SITE MAP WITH BENZENE
CONCENTRATIONS IN SOIL ABOVE ESLs
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 09/20/10
FILE NO. 76-1156S	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB





LEGEND

- GROUNDWATER MONITORING WELL
- ABANDONED GROUNDWATER MONITORING WELL
- SOIL VAPOR WELL
- SOIL BORING (DELTA, 2010)
- FENCE

NOTES:

CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM (mg/kg).

ND<0.050 = LESS THAN LABORATORY INDICATED REPORTING LIMITS
 TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
 MTBE = METHYL TERTIARY BUTYL ETHER
 ESL = ENVIRONMENTAL SCREENING LEVEL

ESL VALUES

TPHg = 83 mg/kg
 TPHd = 83 mg/kg
 BENZENE = 0.044 mg/kg
 MTBE = 0.023 mg/kg

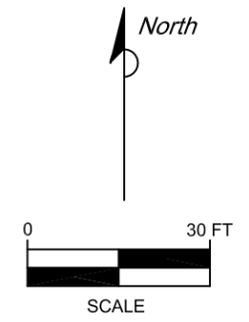


FIGURE 10
 SITE MAP WITH MTBE
 CONCENTRATIONS IN SOIL ABOVE ESLs
 76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 09/20/10
FILE NO. 76-1156S	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



SB-16	
Depth	MTBE
8	ND<0.025
30	0.041

MW-1B	
Depth	MTBE
10	0.3
15	ND<2.5
20	0.061

SB-17	
Depth	MTBE
10	0.024
20	0.011
47	ND<0.050

SB-13	
Depth	MTBE
6	ND<0.50

SB-19	
Depth	MTBE
5	ND<0.050
10	ND<0.050

SB-18	
Depth	MTBE
10	ND<0.050
15	ND<0.25

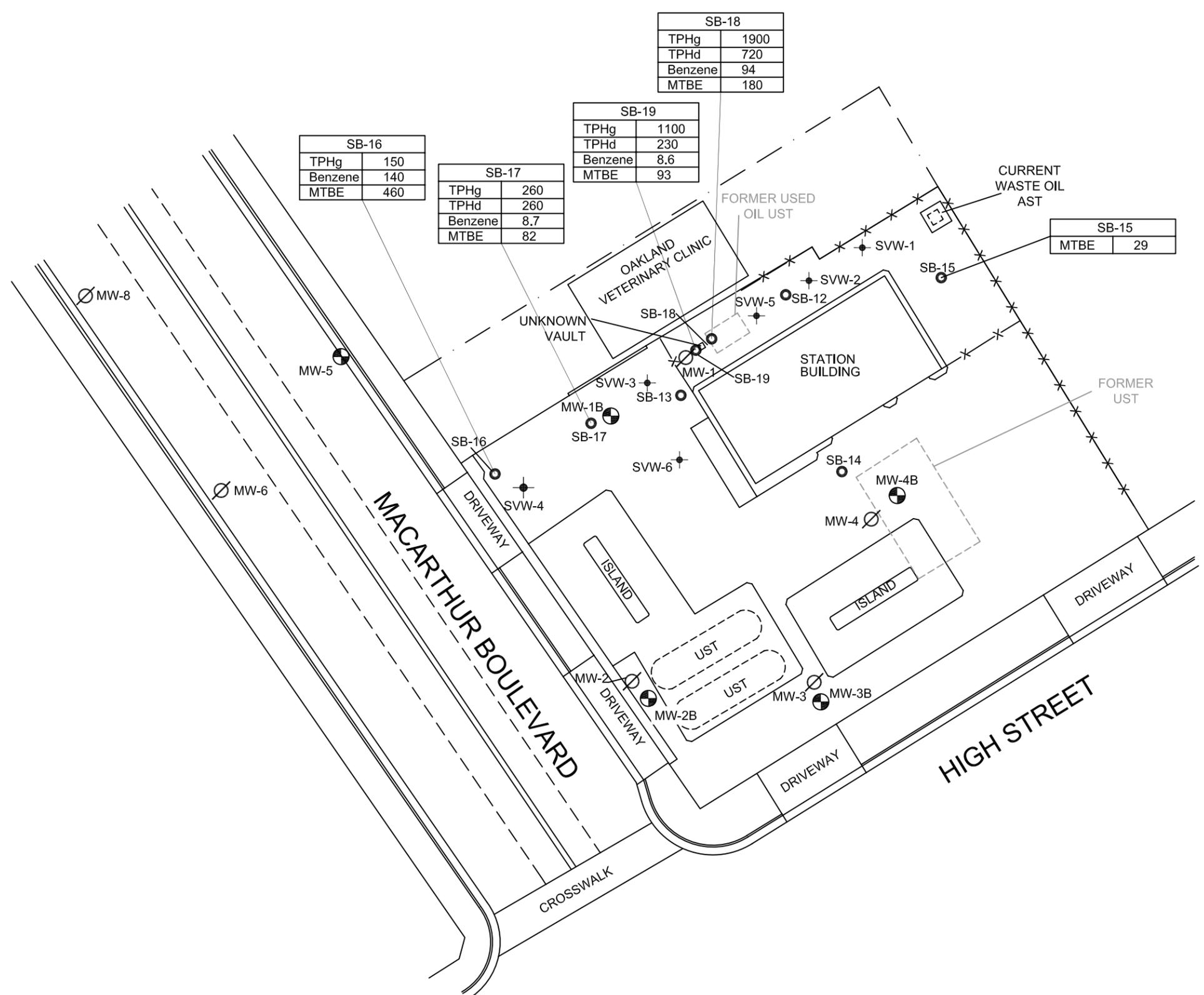
SB-12	
Depth	MTBE
41	ND<0.025

SB-14	
Depth	MTBE
8	0.0088
10	0.033
15	0.031

MW-4B	
Depth	MTBE
10	ND<0.025
15	ND<0.050
20	ND<0.12

MW-3B	
Depth	MTBE
15	ND<5
20	ND<0.12

MW-2B	
Depth	MTBE
10	0.03
15	0.25
20	0.099



LEGEND

- GROUNDWATER MONITORING WELL
- ABANDONED GROUNDWATER MONITORING WELL
- SOIL VAPOR WELL
- SOIL BORING (DELTA, 2010)
- FENCE

NOTES:

CONCENTRATIONS IN MICROGRAMS PER LITER (µg/L)
VALUES REFLECT GRAB GROUNDWATER SAMPLES.

- TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- MTBE = METHYL TERTIARY BUTYL ETHER
- ESL = ENVIRONMENTAL SCREENING LEVEL

ESL VALUES

- TPHg = 100 µg/L
- TPHd = 100 µg/L
- BENZENE = 1.0 µg/L
- MTBE = 5.0 µg/L

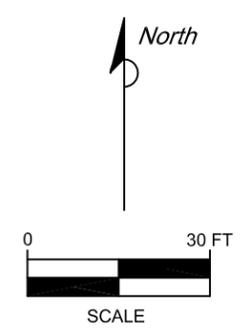
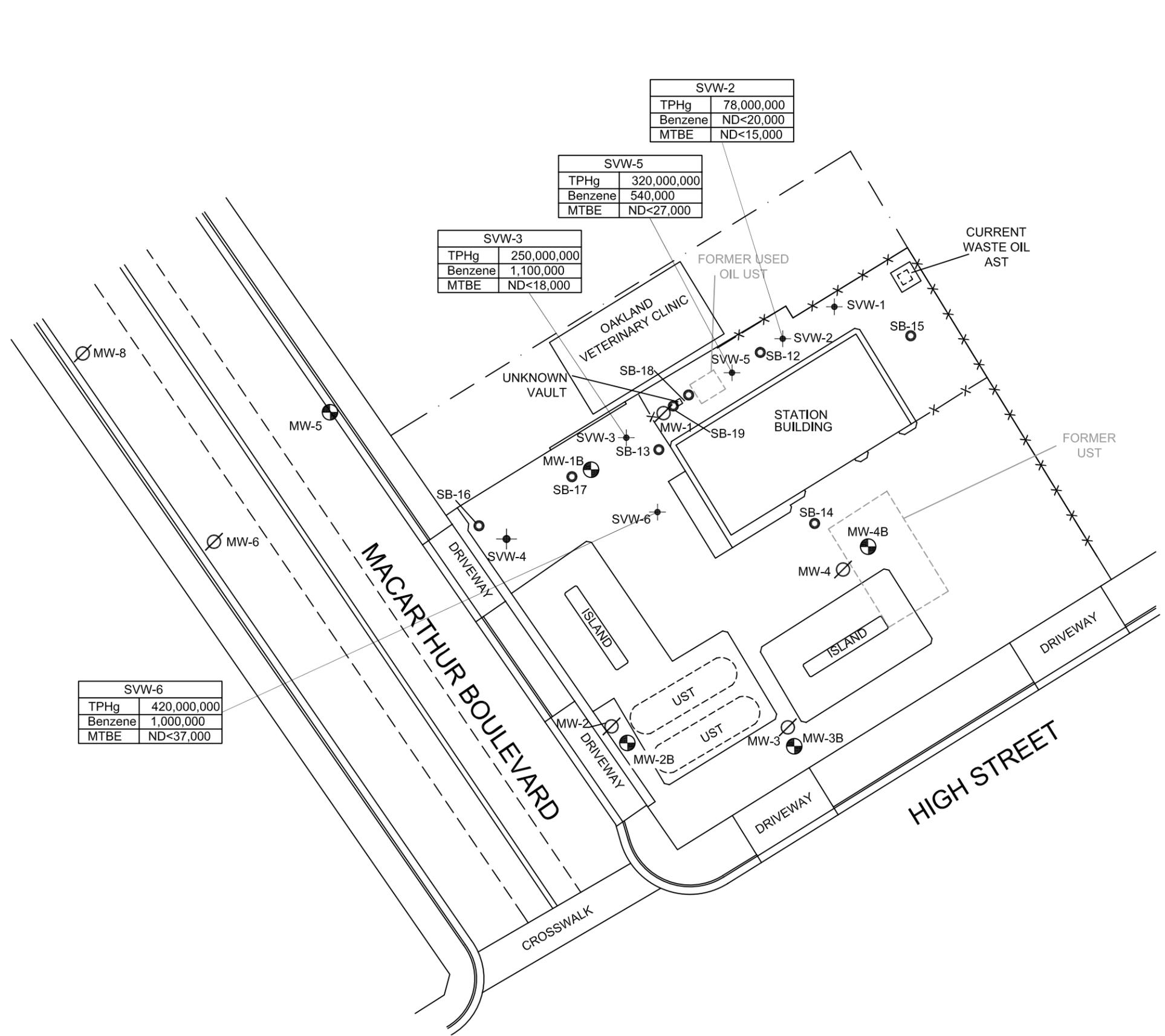


FIGURE 11
SITE MAP WITH TPHg, TPHd, BENZENE AND MTBE
CONCENTRATIONS IN GROUNDWATER ABOVE ESLs
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 09/20/10
FILE NO. 76-1156S	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB





LEGEND

- GROUNDWATER MONITORING WELL
- ABANDONED GROUNDWATER MONITORING WELL
- SOIL VAPOR WELL
- SOIL BORING (DELTA, 2010)
- FENCE

NOTES:

- CONCENTRATIONS IN MICROGRAMS PER CUBIC METER ($\mu\text{g}/\text{m}^3$)
 - NON-DETECT VALUES ARE REPORTED WHERE REPORTING LIMITS ARE ABOVE ESL VALUES.

TPHg = TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
 MTBE = METHYL TERTIARY BUTYL ETHER
 ESL = ENVIRONMENTAL SCREENING LEVEL

ESL VALUES

TPHg = 10,000 $\mu\text{g}/\text{m}^3$
 BENZENE = 84 $\mu\text{g}/\text{m}^3$
 MTBE = 9,400 $\mu\text{g}/\text{m}^3$

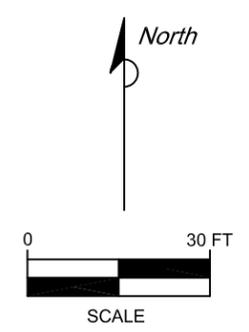


FIGURE 12
 SITE MAP WITH TPHg, BENZENE AND MTBE
 CONCENTRATIONS IN SOIL VAPOR ABOVE ESLs
 76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 10/05/10
FILE NO. 76-1156S	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



TABLES

Table 1
Soil Analytical Results
76 Service Station No. 1156
4276 MacArthur Boulevard
Oakland, California

Boring	Depth (ft)	Date	TPHg (8015M) (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	Ethanol (mg/kg)
SB-12	6	6/15/2010	3.8	<2.0	28	0.11	<0.0050	0.37	0.44	<0.0050	<0.0050	<0.0050	<0.0050	0.11	<0.0050	<0.0050	<1.0
	10	6/15/2010	<5	<2.0	<10	0.081	<0.0050	0.43	0.5	<0.0050	<0.0050	<0.0050	<0.0050	0.091	<0.0050	<0.0050	<1.0
	15	6/15/2010	1.7	<100	830	0.29	<0.0050	0.45	0.58	<0.0050	<0.0050	<0.0050	<0.0050	0.062	<0.0050	<0.0050	<1.0
	20	6/15/2010	<5.0	<2.0	11	0.052	<0.0050	0.41	0.72	<0.0050	<0.0050	<0.0050	<0.0050	0.05	<0.0050	<0.0050	<1.0
	26	6/15/2010	<5.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	30	6/15/2010	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	35	6/15/2010	<1.0	<2.0	<10	<0.0050	<0.0050	0.0068	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	41	6/15/2010	<1.0	<2.0	12	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.25	<0.025	<0.025	<5.0
	45	6/15/2010	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
50	6/15/2010	<1.0	<2.0	24	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0	
SB-13	6	6/18/10	680	76	<100	<0.50	<0.50	4.4	<1.0	<0.50	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<100
SB-14	8	6/17/10	9.9	<2.0	<10	0.073	0.26	1.7	8	0.0088	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	10	6/17/10	35	<2.0	<10	0.28	0.21	1.7	7.9	0.033	<0.0050	<0.0050	<0.0050	0.093	<0.0050	<0.0050	<1.0
	15	6/17/10	<1.0	<10	100	0.097	<0.0050	0.031	0.051	0.031	<0.0050	<0.0050	<0.0050	0.081	<0.0050	<0.0050	<1.0
	20	6/17/10	<1.0	<2.0	17	0.0064	0.0099	0.05	0.24	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	26	6/17/10	<1.0	<2.0	31	0.0076	0.012	0.085	0.36	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	30	6/17/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	35	6/17/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	40	6/17/10	<1.0	<2.0	19	<0.0050	<0.0050	0.014	0.079	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	45	6/17/10	6.8	<2.0	20	0.018	<0.0050	0.27	1	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
50	6/17/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0	
SB-15	5	6/18/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	10	6/18/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	15	6/18/10	<1.0	17	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	21.5	6/18/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	26.5	6/18/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	30	6/18/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	35	6/18/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
40	6/18/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0	
SB-16	8	6/16/10	<1.0	<2.0	<10	<0.025	<0.025	<0.025	<0.050	<0.025	<0.025	<0.025	<0.025	<0.25	<0.025	<0.025	<5.0
	10	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	15	6/16/10	<1.0	<99	<500	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010	<2.0
	20	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	25	6/16/10	<1.0	<2.0	30	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	30	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	0.041	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	35	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	40	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	46	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
50	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0	
SB-17	5	6/16/10	530	<2.0	40	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	10	6/16/10	130	<2.0	<10	0.021	<0.0050	0.0081	<0.010	0.024	<0.0050	<0.0050	<0.0050	0.17	<0.0050	<0.0050	<1.0
	15	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	0.13	<0.0050	<0.0050	<1.0
	20	6/16/10	9.8	<2.0	130	0.11	0.0093	0.5	0.058	0.011	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	25	6/16/10	<1.0	<20	<100	<0.0050	<0.0050	0.031	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	30	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	35	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	40	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	47	6/16/10	17	<2.0	<10	0.088	<0.050	0.49	<0.10	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050	<10
50	6/16/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0	

Table 1
Soil Analytical Results
76 Service Station No. 1156
4276 MacArthur Boulevard
Oakland, California

Boring	Depth (ft)	Date	TPHg (8015M) (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	TAME (mg/kg)	TBA (mg/kg)	DIPE (mg/kg)	ETBE (mg/kg)	Ethanol (mg/kg)
SB-18	7.5	6/15/10	<1.0	<200	<1000	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	10	6/15/10	2.6	<2.0	<10	<0.0050	<0.050	0.081	<0.10	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050	<10
	15	6/15/10	<1.0	6.7	<10	5	25	51	210	<0.25	<0.25	<0.25	<0.25	<2.5	<0.25	<0.25	<50
	20	6/15/10	<1.0	<2.0	<10	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
SB-19	7.5	6/15/10	1.5	<2.0	<10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050	<10
	10	6/15/10	1.6	<2.0	<10	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.050	<0.50	<0.050	<0.050	<10
	15	6/15/10	<1.0	<2.0	39	<0.0050	<0.0050	<0.0050	<0.010	0.017	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	20	6/15/10	<1.0	<2.0	11	<0.0050	<0.0050	<0.0050	<0.010	0.013	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
MW-1B	5	8/17/2010	210	31	--	1.1	0.054	4.5	0.48	<0.0050	<0.0050	0.031	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	10	8/17/2010	<1.0	2.7	--	3	9.8	57	220	0.3	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<500
	15	8/17/2010	270	110	--	<2.5	6.2	38	150	<2.5	<2.5	<2.5	<2.5	<25	<2.5	<2.5	<500
	20	8/17/2010	200	<200	--	0.23	0.15	2.4	0.88	0.061	<0.010	<0.010	<0.010	<0.10	<0.010	<0.010	<2.0
	25	8/17/2010	<1.0	<2.0	--	<0.0050	0.0085	0.012	0.056	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
MW-2B	5	8/16/2010	<1.0	<200	--	0.009	<0.0050	0.011	0.12	0.03	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	10	8/16/2010	54	<2.0	--	<0.0050	0.02	0.28	0.84	0.0085	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	15	8/16/2010	55	<200	--	<0.0050	<0.0050	0.32	0.69	0.25	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	20	8/16/2010	4.4	<1200	--	0.076	0.18	1.1	3.3	0.099	<0.025	<0.025	<0.025	<0.25	<0.025	<0.025	<5
	25	8/16/2010	<1.0	2	--	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
MW-3B	5	8/16/2010	<1.0	<20	--	<0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	10	8/16/2010	1.3	<20	--	0.018	0.075	0.1	0.54	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	15	8/16/2010	310	150	--	<5	20	33	180	<5	<5	<5	<5	<50	<5	<5	<1000
	20	8/16/2010	<1.0	<20	--	<0.12	0.46	0.38	2	<0.12	<0.12	<0.12	<0.12	<1.2	<0.12	<0.12	<25
	25	8/16/2010	4.6	<2.0	--	<0.0050	0.042	0.061	0.37	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
MW-4B	5	8/13/2010	<1.0	<20	--	<0.0050	<0.0050	0.025	<0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0
	10	8/13/2010	15	27	--	<0.025	<0.025	0.43	0.15	<0.025	<0.025	<0.025	<0.025	<0.25	<0.025	<0.025	<5
	15	8/13/2010	840	15	--	<0.50	0.89	41	170	<0.50	<0.50	<0.50	<0.50	<5	<0.50	<0.50	100
	20	8/13/2010	1.1	<2.0	--	<0.50	<0.50	0.76	4.3	<0.50	<0.50	<0.50	<0.50	<5	<0.50	<0.50	100
	25	8/13/2010	150	4.4	--	<0.12	<0.12	0.39	2.4	<0.12	<0.12	<0.12	<0.12	<1.2	<0.12	<0.12	<25
Lowest Residential Soil ESL*			83	83	5000	0.044	2.9	3.3	2.3	0.023	0.00033	0.0045	NE	0.075	NE	NE	NE

TPHg = total petroleum hydrocarbons as gasoline TPHd = total petroleum hydrocarbons as diesel TPHmo = total petroleum hydrocarbons as motor oil EDB = ethylene dibromide 1,2-DCA = 1,2 dichloroethane
MTBE = metyl tert butyl ether TAME = tert amyl methyl ether TBA = tert butyl alcohol DIPE = diisopropyl ether ETBE = ethyl tert butyl ether ug/L = micrograms per liter bold = above laboratory reporting limits

* Based on ESL values for deep soils greater than 3 meters, where groundwater is a current or potential source of drinking water.

Table 1a
Additional Soil Analytical Results
 76 Service Station No. 1156
 4276 MacArthur Boulevard
 Oakland, California

Boring	Depth (ft)	Date	TPHln mg/kg	TPHag mg/kg	TPHss mg/kg	TPHhn mg/kg	TPHg (8260B) mg/kg	TPHjf4 mg/kg	TPHjf5 mg/kg	TPHjf8 mg/kg	TPHk mg/kg	TPHfo mg/kg	TPHco mg/kg	TPHwd40 mg/kg	TOG mg/kg
SB-13	6	6/18/10	<200	<200	<100	<50	<100	<20	<20	<20	<20	<20	<100	<20	140
SB-18	15	6/14/10	<20	<20	<10	<5	<10	<20	<20	<20	<20	<20	<10	<20	<50
MW-4B	10	8/13/10	--	--	--	--	--	--	--	--	--	--	--	--	<50

TPHln = total petroleum hydrocarbons as light naphtha TPHag = TPH as aviation gas TPHss = TPH as stoddard solvent TPHhn = TPH as heavy naphtha TPHg = TPH as gasoline TPHjf4 = TPH as JP4 jet fuel
 TPHjf5 = TPH as JP5 jet fuel TPHjf8 = TPH as JP8 jet fuel TPHk = TPH as kerosene TPHfo = TPH as fuel oil TPHco = TPH as crude oil TPHwd40 = TPH as WD-40 TOG = total oil and grease

* Based on ESL values for deep soils greater than 3 meters, where groundwater is a current or potential source of drinking water.

NE = not established

Table 2
Discrete Groundwater Analytical Results
76 Service Station No. 1156
4276 MacArthur Boulevard
Oakland, California

Boring	Depth	Date	TPHg ug/L	TPHd ug/L	TPHmo ug/L	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Total Xylenes ug/L	MTBE ug/L	EDB ug/L	1,2-DCA ug/L	TAME ug/L	TBA ug/L	DIPE ug/L	ETBE ug/L	Ethanol ug/L
SB-15	19-24	6/18/2010	<50	54	<200	<0.50	<0.50	<0.50	<1.0	29	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
SB-16	20-25	6/17/2010	<50	150	<200	140	7.5	14	7.8	460	<0.50	23	<0.50	730	<0.50	<0.50	<250
SB-17	14-19	6/17/2010	260	260	<290	8.7	0.51	6.6	1.6	82	<0.50	14	<0.50	640	<0.50	<0.50	<250
SB-18	15-20	6/16/2010	1900	720	480	94	4.1	4.8	12	180	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
SB-19	15-20	6/16/2010	1100	230	230	8.6	1.2	4.3	9.5	93	<0.50	<0.50	<0.50	<10	<0.50	<0.50	<250
Lowest ESLs for Groundwater*			100	100	100	1.0	40	30	20	5.0	0.05	0.5	NE	12	NE	NE	NE

TPHg = total petroleum hydrocarbons as gasoline TPHd = total petroleum hydrocarbons as diesel TPHmo = total petroleum hydrocarbons as motor oil EDB = ethylene dibromide 1,2-DCA = 1,2 dichloroethane
MTBE = mety; tert butyl ether TAME = tert amyl methyl ether TBA = tert butyl alcohol DIPE = diisopropyl ether ETBE = ethyl tert butyl ether ug/L = micrograms per liter bold = above laboratory reporting limits

*Based on ESL values for groundwater associated with deep soil greater than 3 meters, where groundwater is a current or potential source of drinking water.

NE = not established

Table 3
Soil Vapor Analytical Results
76 Service Station No. 1156
4276 MacArthur Boulevard
Oakland, California

Boring	Depth (ft)	Date	TPHg (ug/m ³)	Benzene (ug/m ³)	Toluene (ug/m ³)	Ethylbenzene (ug/m ³)	Total Xylenes (ug/m ³)	MTBE (ug/m ³)	EDB (ug/m ³)	1,2-DCA (ug/m ³)	TAME (ug/m ³)	TBA (ug/m ³)	DIPE (ug/m ³)	ETBE (ug/m ³)	Ethanol (ug/m ³)	Oxygen [% (v/v)]	Carbon Dioxide [% (v/v)]	Methane [% (v/v)]	IPA (ug/m ³)
SVW-1	4.5	9/8/10	4,700	<22	<17	<20	<20	<15	<31	<25	<17	<92	<17	<17	<190	11	4.4	<0.00040	<56
SVW-2	4.5	9/8/10	78,000,000	<20,000	19,000	35,000	99,000	<15,000	<32,000	<25,000	<17,000	<94,000	<17,000	<17,000	<190,000	1.3	14	8.1	<51,000
SVW-3	4.5	9/8/10	250,000,000	1,100,000	<18,000	610,000	820,000	<18,000	<37,000	<30,000	<20,000	<110,000	<20,000	<20,000	<230,000	1.1	11	38	<60,000
SVW-4*	4.5	9/8/10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SVW-5	4.5	9/8/10	320,000,000	540,000	<28,000	23,000	<32,000	<27,000	<57,000	<45,000	<31,000	<170,000	<31,000	<31,000	<350,000	1.4	13	7.5	<3700
SVW-6	4.5	9/9/10	420,000,000	1,000,000	<38,000	240,000	170,000	<37,000	<78,000	<62,000	<43,000	<230,000	<43,000	<43,000	<480,000	1.1	16	27	<130,000
Lowest Shallow Soil Gas ESLs**			10,000	84	63,000	980	21,000	9,400	4.1	94	NE	NE	NE	NE	NE				
Lowest Shallow Soil Gas CHHSLs***			NE	36.2	135,000	NE	NE	4,000	NE	49.6	NE	NE	NE	NE	NE				

TPHg = total petroleum hydrocarbons as gasoline EDB = ethylene dibromide 1,2-DCA = 1,2 dichloroethane MTBE = methyl tert butyl ether TAME = tert amyl methyl ether TBA = tert butyl alcohol
DIPE = diisopropyl ether ETBE = ethyl tert butyl ether ug/L = micrograms per liter bold = above laboratory reporting limits NE = not established IPA = isopropyl alcohol (leak detection compound)

* Sample not collected due to water in the hole.

** Based on ESL values for shallow soil gas screening levels for residential land use.

*** Based on Shallow soil gas human health screening levels for residential land use.

APPENDIX A
ACHCSA Letter dated October 15, 2009



RECEIVED

OCT 19 2009

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

October 15, 2009

Terry Grayson
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Carole Quick and Lorraine Mudgett
P.O. Box 2165
Gearheart, OR 97138

Rajan Goswamy
4276 MacArthur Boulevard
Oakland, CA 94619

Subject: Fuel Leak Case No. RO0000409 and Geotracker Global ID T0600102279, Unocal #1156, 4276 MacArthur Boulevard, Oakland, CA 94619 – Site Investigation Report

Dear Mr. Grayson, Ms. Quick, Ms. Mudgett, and Mr. Goswamy:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site, including the recently submitted document entitled, "*Site Investigation Report, 76 Service station, 4276 MacArthur Blvd., Oakland, CA,*" dated August 26, 2009 (Report). The Report, which was prepared in on behalf of ConocoPhillips by Delta Environmental, presents the results of soil, soil vapor, and groundwater sampling conducted at the site in July 2009.

The general objectives of the proposed work were to:

- Define the horizontal and vertical extent of contamination in the area of the station building, waste oil tank, and former UST basin to determine whether a preferential pathway exists between the former tank pit and monitoring well MW-1.
- Collect soil vapor samples to assess the potential for vapor intrusion.

As discussed in the technical comments below, the proposed field investigation could not be completed as planned and the first objective was not met due to limitations in the collected data. The four soil vapor samples collected indicate there is a potential for vapor intrusion that requires further investigation. Therefore, we request that you prepare a Work Plan that addresses the items identified in the technical comments below.

We have also received a document entitled, "*Monitoring Well Abandonment Request,*" dated August 10, 2009. The document requests that well MW-6, which was covered during street paving, be decommissioned. The document also requests that well MW-8, which is located in MacArthur Boulevard west of the site and has not contained reportable concentrations of fuel hydrocarbons during recent sampling events, also be decommissioned. We have no objection to decommissioning wells MW-6 and MW-8 in accordance with Alameda County Public Works requirements.

TECHNICAL COMMENTS

- 1. Soil Vapor Sampling Results.** Soil vapor sampling was attempted at seven locations but samples could only be collected at four locations adjacent to the station building and along the property boundary. Total petroleum hydrocarbons as gasoline (TPHg) were detected in soil vapor at concentrations up to 82,000,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). Benzene was detected in soil vapor at concentrations that exceed the Environmental Screening Level (ESLs [May 2008]) for commercial land use in each of the four soil vapor samples collected. Methane was detected in two of the soil vapor samples at concentrations of 20,000 and 24,000 ppmV, respectively. We also note that the results for SV-7 are unusual in that the samples contained highly elevated concentrations of fuel hydrocarbons but oxygen is at an ambient air level. In addition, sample SV-7 contains 24,000 ppmV methane. The Report lists these results and notes that the concentrations exceed ESLs but does not evaluate the results or make any recommendations for future work. It is apparent that additional work is required to evaluate the potential for vapor intrusion. In future reports, an evaluation of the sampling results must be included with recommendations for appropriate future actions. In the Work Plan requested below, please present plans to confirm the soil vapor sampling results and evaluate the potential for vapor intrusion on-site and off-site. We suggest that you consider the installation of semi-permanent soil vapor probes that can be re-sampled.
- 2. Method for Collection of Groundwater Samples.** Groundwater samples were collected using a temporary PVC well placed in an open borehole. As proposed in the "*Revised Work Plan – Site Investigation*," dated March 16, 2009, depth-discrete groundwater samples were to have been collected using a "Hydropunch sampling tool." The purpose of advancing the CPT borings was to identify and target coarse-grained zones for depth-discrete groundwater sampling and vertical delineation. Vertical delineation was not achieved and the grab groundwater sampling results are not comparable between borings or with results from monitoring wells due to the collection of grab groundwater samples from open boreholes of different depths. The source of the groundwater in the borehole is not well known and the amount of mixing from other intervals is also not well known. These differences likely result in higher variability and some uncertainty in the grab groundwater sampling results. Please include plans for collection of depth-discrete groundwater samples in the Work Plan requested below.
- 3. CPT Borings.** Five CPT borings were originally proposed to be advanced to a depth of 45 feet bgs. However, CPT borings were advanced at only three locations due to operational problems. In correspondence dated June 30, 2009, Delta requested that the proposed five CPT borings be limited to a depth of 30 feet bgs based on the depth to water for the site. The collection of depth-discrete water samples and vertical delineation was considered feasible with the reduced depth of 30 feet bgs. ACEH agreed to limiting the depth of four CPT borings to 30 feet bgs provided that the downgradient boring (S-11) was extended to a depth of 45 feet bgs. The three CPT borings that were advanced reached depths of approximately 18 to 21 feet bgs. Vertical delineation was not accomplished. Due to the limited number and depth of the CPT borings, the field investigation did not achieve the objective of defining the horizontal and vertical extent of contamination. We request that you submit a Work Plan to conduct further CPT investigation using methods and equipment that are capable of achieving the objective of horizontal and vertical delineation.

4. **Preferential Pathway.** One of the objectives of the proposed investigation activities was to evaluate whether a preferential pathway exists between the former UST tank pit and MW-1 or whether a separate source of TPHg exists in the area of MW-1. The Report concludes that there does not appear to be a preferential pathway between the former USTs and MW-1 based on a comparison of the concentrations of fuel hydrocarbons in the three grab groundwater samples. Given the limitations of the grab groundwater sampling data discussed in technical comment 2, we do not believe that a comparison of the magnitude of concentrations is sufficient to support the interpretation that no preferential pathway exists. A comparison of the results from grab groundwater sample SB-7 to groundwater from MW-1 indicates that the results are generally similar in magnitude. More importantly, a review of grab groundwater sampling results collected from depth does not consider the potential for shallow preferential pathways. A review of the boring logs indicates the potential for a shallow preferential pathway in the area of the station building. In boring SB-10, which is located immediately adjacent to the station building, we note that coarse-grained fill material is identified in the upper 10 feet. Therefore, a shallow preferential pathway potentially exists from the tank pit to beneath the station building in this area. In boring SB-8, which is also adjacent to the station building, the fill material extended to a depth of more than 8 feet bgs and could not be penetrated in the boring. Visible black product was noted in a gravel with sand layer below a depth of 5 feet bgs. Further investigation of the visible black product and fill material and the potential for a shallow preferential pathway is required. Please include these plans in the Work Plan requested below.
5. **Figure 3.** The diagram in Figure 3 includes only depths and filter pack materials and does not show the soil vapor point. In future documents, please show soil vapor sampling point details.
6. **Discussion and Recommendations.** We do not concur with a magnesium sulfate feasibility test at this time.
7. **Groundwater Monitoring.** Groundwater monitoring is to be continued on a semi-annual basis during the first and third quarters. Please present the results in the Groundwater Monitoring Reports requested below.

TECHNICAL REPORT REQUEST

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

- **December 15, 2009** – Work Plan
- **30 days following end of First and Third Quarters** – Semi-annual Groundwater Monitoring Report

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.

Terry Grayson
Carole Quick and Lorraine Mudgett
Rajan Goswamy
RO0000409
October 15, 2009
Page 4

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/cleanup/electronic_reporting).

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.

Terry Grayson
Carole Quick and Lorraine Mudgett
Rajan Goswamy
RO0000409
October 15, 2009
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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) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,



Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032

Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810-1039

Peter Schaefer, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A, Emeryville, CA 94608

James Barnard, Delta Environmental Consultants, Inc., 11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670

Donna Drogos, ACEH
Jerry Wickham, ACEH
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://alcoft1.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
ACHCSA Letter dated April 15, 2010



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

April 5, 2010

Terry Grayson (Sent via E-mail to: Terry.L.Grayson@contractor.conocophillips.com)
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Rajan Goswamy
4276 MacArthur Boulevard
Oakland, CA 94619

Carole Quick and Lorraine Mudgett
P.O. Box 2165
Gearheart, OR 97138

Subject: Fuel Leak Case No. RO0000409 and Geotracker Global ID T0600102279, Unocal #1156, 4276 MacArthur Boulevard, Oakland, CA 94619 – Conditional Work Plan Approval

Dear Mr. Grayson, Ms. Quick, Ms. Mudgett, and Mr. Goswamy:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site, including the recently submitted document entitled, "*Work Plan for Additional Site Assessment Investigation, 76 Service station, 4276 MacArthur Blvd., Oakland, CA,*" dated March 1, 2010 (Work Plan). The Work Plan, which was prepared in on behalf of ConocoPhillips by Delta Environmental, proposes soil vapor, soil, and groundwater sampling to address data gaps in the current site conceptual model.

The scope of work is conditionally approved and may be implemented provided that the technical comments below are addressed and incorporated during the proposed activities. Submittal of a revised Work Plan or Work Plan Addendum is not required unless an alternate scope of work outside that described in the Work Plan and technical comment below is proposed. We request that you address the following technical comments, perform the proposed work, and send us the reports described below.

TECHNICAL COMMENTS

- 1. Soil Vapor Sampling.** The proposed soil vapor sampling locations and methods are generally acceptable. However, we request that you include two additional soil vapor wells as shown on the attached figure entitled, "Additional Soil Vapor Wells." Please include soil vapor sampling results in the Site Assessment Report requested below.
- 2. Monitoring Wells.** The proposed monitoring well abandonment and replacement is acceptable. Please include sampling results from the replacement wells in the semi-annual groundwater monitoring reports.
- 3. Soil Boring SB-17.** The Work Plan proposes placing boring SB-17 immediately southwest of existing well MW-1. One of the purposes of placing boring SB-17 on the adjacent site was to assess the extent of off-site contamination to the west. Keeping boring SB-17 on-site does not address the issue of off-site extent of contamination. Given logistical issues, we do not object to advancing boring SB-17 as proposed at this time. However, pending results from investigation of the unidentified concrete vault,

the issue of the off-site extent of contamination to the west may need to be re-considered at a future date.

4. **Unidentified Concrete Vault.** Please include the concrete vault on future site maps. A primary objective of investigation of the unidentified vault should be to assess whether the vault is the source of elevated petroleum hydrocarbons detected in soil, soil vapor, and groundwater in the area of MW-1. Therefore, the scope of investigation of the vault should be expanded beyond one boring if necessary based on initial observations of conditions in the vault.
5. **Groundwater Monitoring.** Groundwater monitoring is to be continued on a semi-annual basis during the first and third quarters. Please present the results in the Groundwater Monitoring Reports requested below.

TECHNICAL REPORT REQUEST

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

- **August 20, 2010** – Site Assessment Report
- **30 days following end of First and Third Quarters** – Semi-annual Groundwater Monitoring Report

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/cleanup/electronic_reporting).

Terry Grayson
Carole Quick and Lorraine Mudgett
Rajan Goswamy
RO0000409
April 5, 2010
Page 3

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.

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297
Senior Hazardous Materials Specialist

Terry Grayson
Carole Quick and Lorraine Mudgett
Rajan Goswamy
RO0000409
April 5, 2010
Page 4

Attachment: Additional Soil Vapor Wells

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (*Sent via E-mail to: lgriffin@oaklandnet.com*)

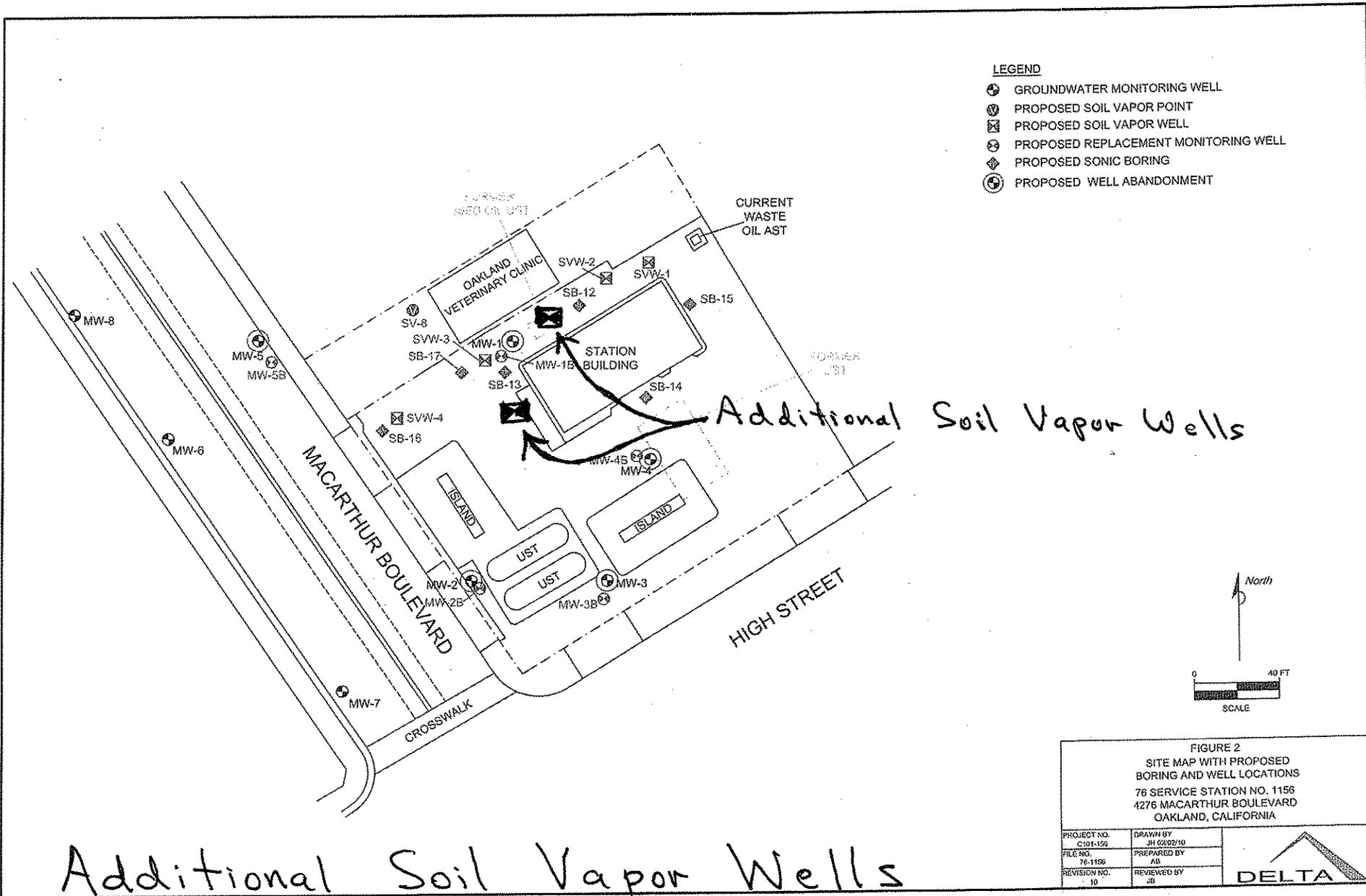
James Barnard, Delta Environmental Consultants, Inc., 11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670 (*Sent via E-mail to: JBarnard@deltaenv.com*)

Denis Brown, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810-1039 (*Sent via E-mail to: denis.l.brown@shell.com*)

Peter Schaefer, Conestoga-Rovers & Associates, 5900 Hollis Street, Suite A
Emeryville, CA 94608 (*Sent via E-mail to: pschaefer@croworld.com*)

Donna Drogos, ACEH (*Sent via E-mail to: donna.drogos@acgov.org*)
Jerry Wickham, ACEH

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 C

Email from Mr. Jerry Wickham to Mr. James Barnard
and Mr. Terry Grayson dated May 13, 2010

From: Wickham, Jerry, Env. Health [jerry.wickham@acgov.org]
Sent: Thursday, May 13, 2010 10:40 AM
To: James Barnard
Cc: Grayson, Terry L (DXT Services); Jan Wagoner
Subject: RE: Site 1156 - 4276 MacArthur Boulevard, Oakland
Jim,

We concur with the proposed additional borings. Since the proposed work scope is similar to and in addition to an already approved scope of work, submittal of a work plan addendum is not required.

Regards,

Jerry Wickham

Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
510-567-6791
jerry.wickham@acgov.org

From: James Barnard [mailto:JBarnard@deltaenv.com]
Sent: Thursday, May 13, 2010 10:35 AM
To: Wickham, Jerry, Env. Health
Cc: Grayson, Terry L (DXT Services); Jan Wagoner
Subject: Site 1156 - 4276 MacArthur Boulevard, Oakland

Good Morning, Jerry!

As per our telephone conversation this morning, 13 May 2010, I requested permission to do additional borings beyond what the approved work plan stated. The additional borings will be between the old waste oil tank and the vault, between the vault and MW-1, and possibly between the vault and the adjacent Vet Clinic. These additional borings would assess where the TPHg concentrations are originating from (old waste oil tank location or the vault). You agreed to this proposal of additional borings and also stated that Delta would not be required to submit an addendum to the work plan.

Thank you, Jerry.

Jim

Jim Barnard | Senior Project Manager | North American Operations Group
Delta Consultants, an Oranjewoud N.V. Company
Direct: +1 916.503.1279 | Mobile: +1 916.764.9928 | Fax: +1 916.638.8385
jbarnard@deltaenv.com | www.deltaenv.com
GMT -7

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Confidentiality Notice: If you are not the intended recipient of this email, please delete it. Thank you.

APPENDIX D
DWR Well Completion and Abandonment Reports

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/13/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12

Boring/Well No: MW-4B

Page 1 of 2

▼ First Water Depth:
 ▽ Static Water Depth:

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
			2.1	MW-4B-5	1			GC	Airknife to 5' Brown clayey gravel with sand,
					2				
					3				
					4			GW	Well graded gravel with sand, cobbles up to 4"
			1401	MW-4B-10	5			SW-SM	Greenish gray well graded sand with silt and gravel, 60% sand, 20% gravel, no odor
					6				
					7				
					8				
					9				
			19.5	MW-4B-15	10			SW-SM	Black well graded sand with silt, 60% fine sand, strong odor
					11				
					12				
					13				
					14				
					15			CL	Brown/green mottled lean clay with sand, 15% fine sand, some odor
					16				
					17				
					18				
					19				
				MW-4B-20	20			CL	Brown/black mottled sandy lean clay, 30% fine-med sand, some odor
					21				
					22				

Delta

Environmental Consultants, Inc.

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12 First Water Depth: 23.5'
 Static Water Depth:

Boring/Well No: **MW-4B**

Page 2 of 2

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
				19	MW-4B -25	23			CL	Brown lean clay, 10% fine-med sand, some odor Total Depth = 25'
						24				
						25				
						26				
						27				
						28				
						29				
						30				
						31				
						32				
						33				
						34				
						35				
						36				
						37				
						38				
						39				
						40				
						41				
						42				
						43				
						44				

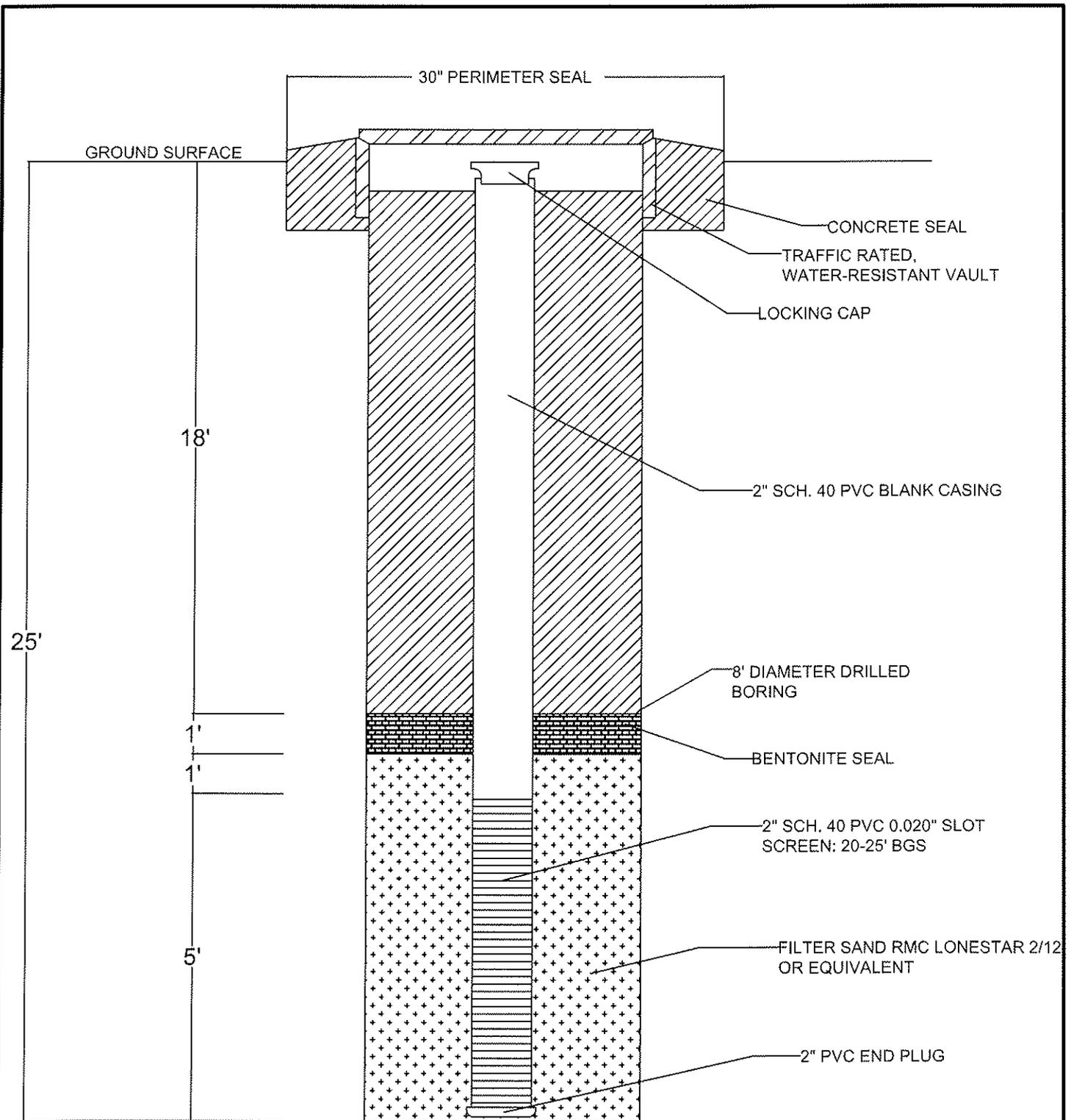


FIGURE 6
 REPLACEMENT GROUNDWATER MONITORING
 WELL CONSTRUCTION DETAIL
 76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12 First Water Depth:
 Static Water Depth:

Boring/Well No: **MW-3B**

Page 1 of 2

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing									
				6	MW-3B-5	1			CL	Airknife to 5' Brown lean clay with sand, some gravel, no odor
						2				
						3				
						4				
						5			CL	Light brown/greenish mottled clay, moist, slight odor
						6				
						7				
						8				
						9				
				36	MW-3B-10	10			CH	Light brown/green/black mottled lean clay with sand, 15% fine sand, damp, mild odor
						11				
						12				
						13				
						14				
				790	MW-3B-15	15			CL	Light brown/green mottled lean clay with sand, 20% fine-med sand, damp, strong odor
						16				
						17				
						18				
						19				
				9	MW-3B-20	20			CH	Light brown fat clay, damp, mild odor
						21			CL	Dark brown lean clay with sand, 15% fine sand, damp, mild odor
						22				

Delta

Environmental Consultants, Inc.

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12

Boring/Well No: **MW-3B**

Page 2 of 2

▼ First Water Depth: 23.5'
 ▽ Static Water Depth:

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing			15	MW-3B -25	23		CL	Light brown lean clay with sand, 30% fine-med sand, moist, very slight odor Total Depth = 25'
					24			
					25			
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

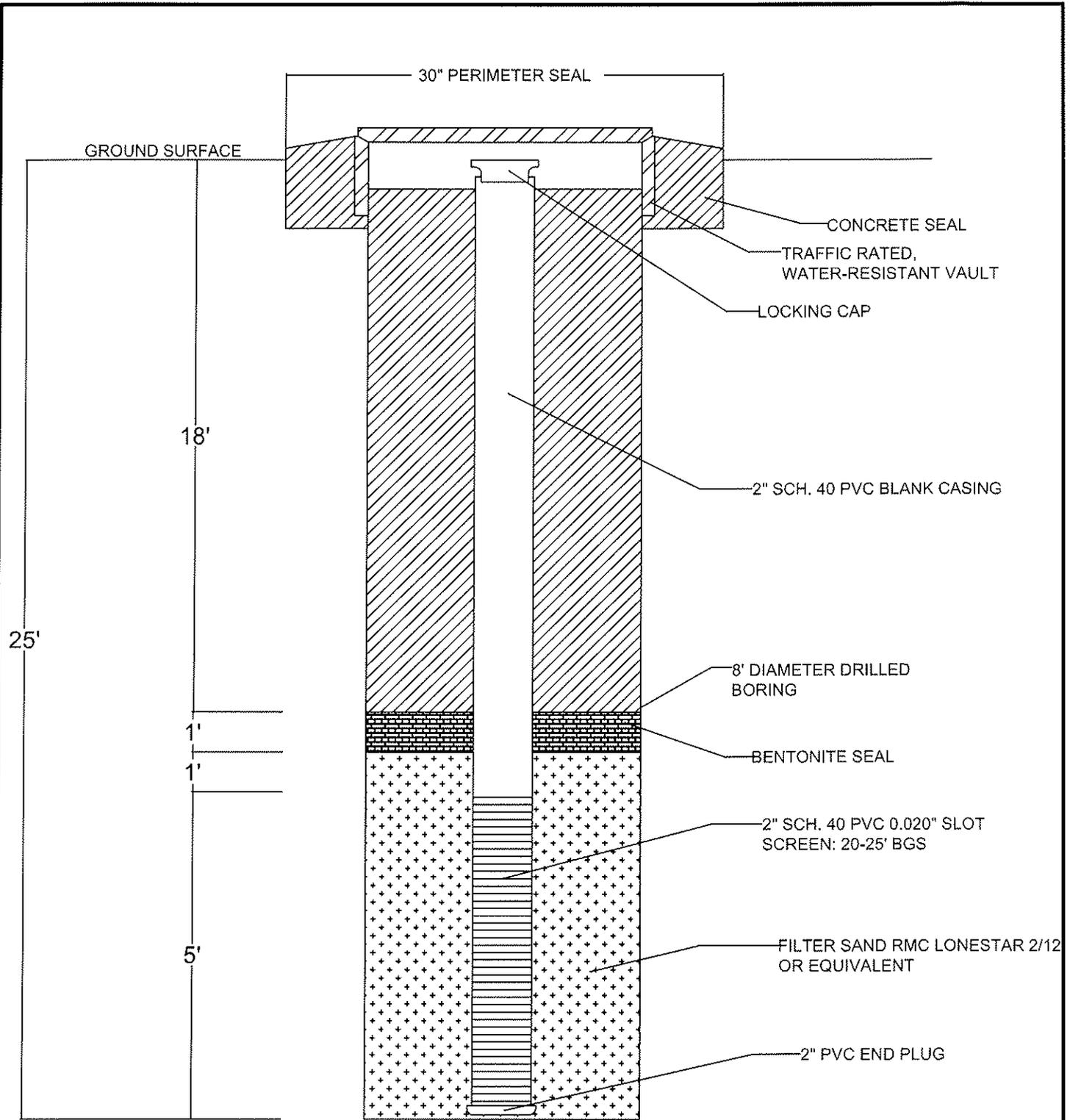


FIGURE 6
 REPLACEMENT GROUNDWATER MONITORING
 WELL CONSTRUCTION DETAIL
 76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12

Boring/Well No: **MW-2B**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
			181	MW-2B-5	1			CL	Airknife to 5' Brown and greenish lean clay with sand
					2				
					3				
					4				
					5			CL	Light brown/green mottled lean clay with sand, 15% sand, strong odor, damp
					6				
					7				
					8				
			0	MW-2B-10	10			CH	Greenish fat clay, dense, damp, odor
					11				
					12				
					13				
					14				
			120	MW-2B-15	15			CL	Green lean clay with sand, 15% med-course sand, damp, odor
					16				
					17				
					18				
					19				
			8	MW-2B-20	20			CL	Dark borwn lean clay with sand, 15% sand, fine-med sand, damp, odor
					21				
					22				

Delta

Environmental Consultants, Inc.

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12 ▼ First Water Depth: 23.5'
 ▽ Static Water Depth:

Boring/Well No: **MW-2B**

Page 2 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing			190	MW-2B -25	23			Brown lean clay with sand, 25% sand, some gravel, mild odor
					24		CL	mild odor
					25		CL	Black/brown mottled clay, damp, mild odor
					26			Total Depth = 25'
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

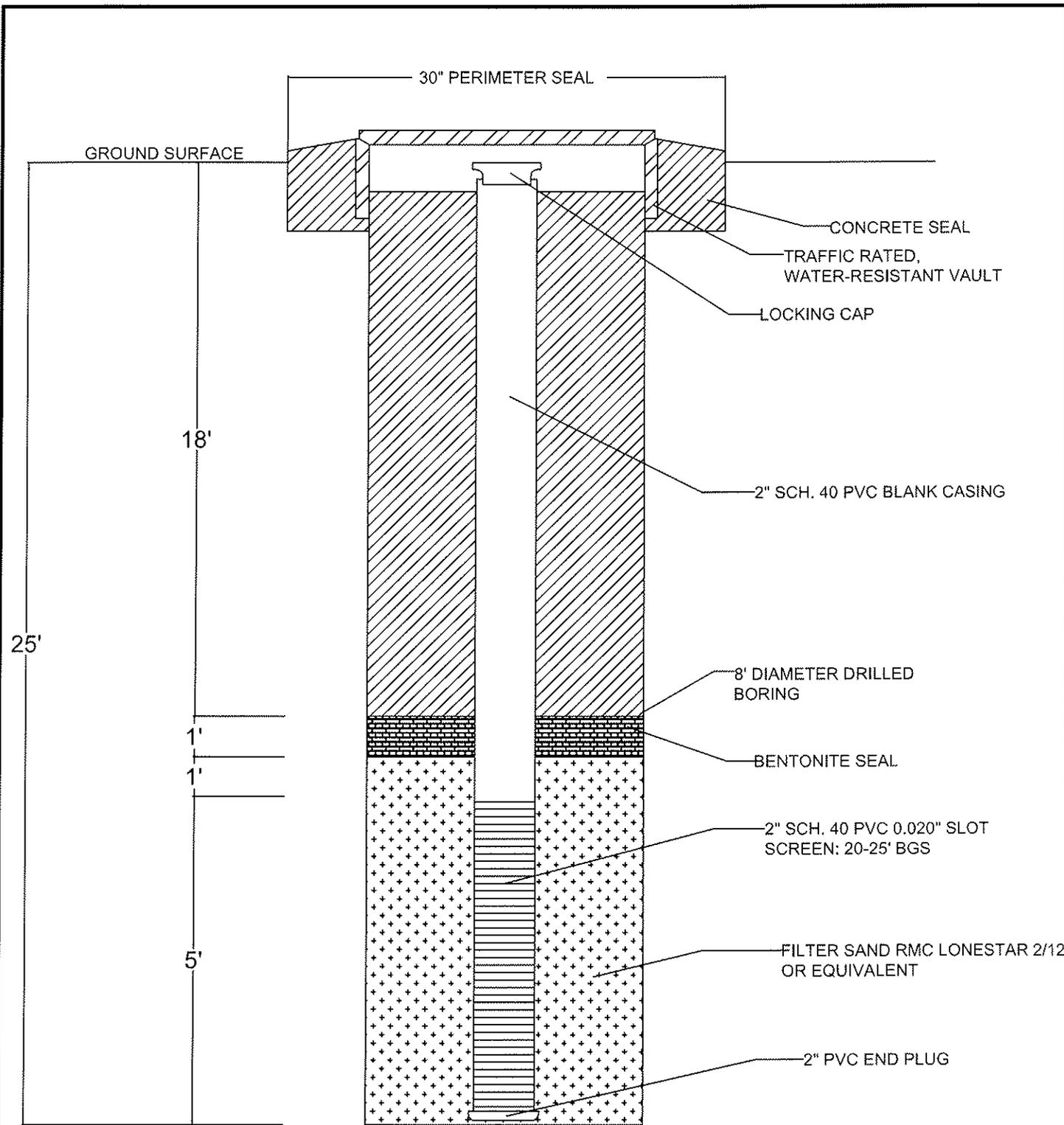


FIGURE 6
 REPLACEMENT GROUNDWATER MONITORING
 WELL CONSTRUCTION DETAIL
 76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/17/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12

Boring/Well No: **MW-1B**
 Page 1 of 2

Elevation: _____ Northing: _____ Easting: _____

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
			299	MW-1B -5	1				Airknife to 5' Brown and grayish-sgrren clay
					2				
					3				
					4				
					5			CL	Greenish-gray sandy lean clay with gravel, 15% sand, 15%, gravel, strong odor, damp
					6				
					7				
					8				
					9				
			173	MW-1B -10	10			CL	Black lean clay with sand, mottled with granular black organic material, 20% sand, strong odor, moist
					11				
					12				
					13				
					14				
					15			CL	Brown sandy clay, fine-course sand, 35% sand, strong odor, damp
					16				
					17				
					18				
					19				
					20			CL	Black sandy lean clay with gravel, 30% sand, 10% gravel, strong odor, wet
			952	MW-1B -15	21			CL	Brn lean clay with sand, 25% sand, some odor, damp
					22				

Delta Environmental Consultants, Inc.

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/17/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12 First Water Depth: 23.5'
 Static Water Depth:

Boring/Well No: **MW-1B**

Page 2 of 2

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
	▼		44	MW-1B -25	23			CL	Brown sandy gravelly clay, 25% sand, 10% gravel, saturated, mild odor
					24				CL
					25				Total Depth = 25'
					26				
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				

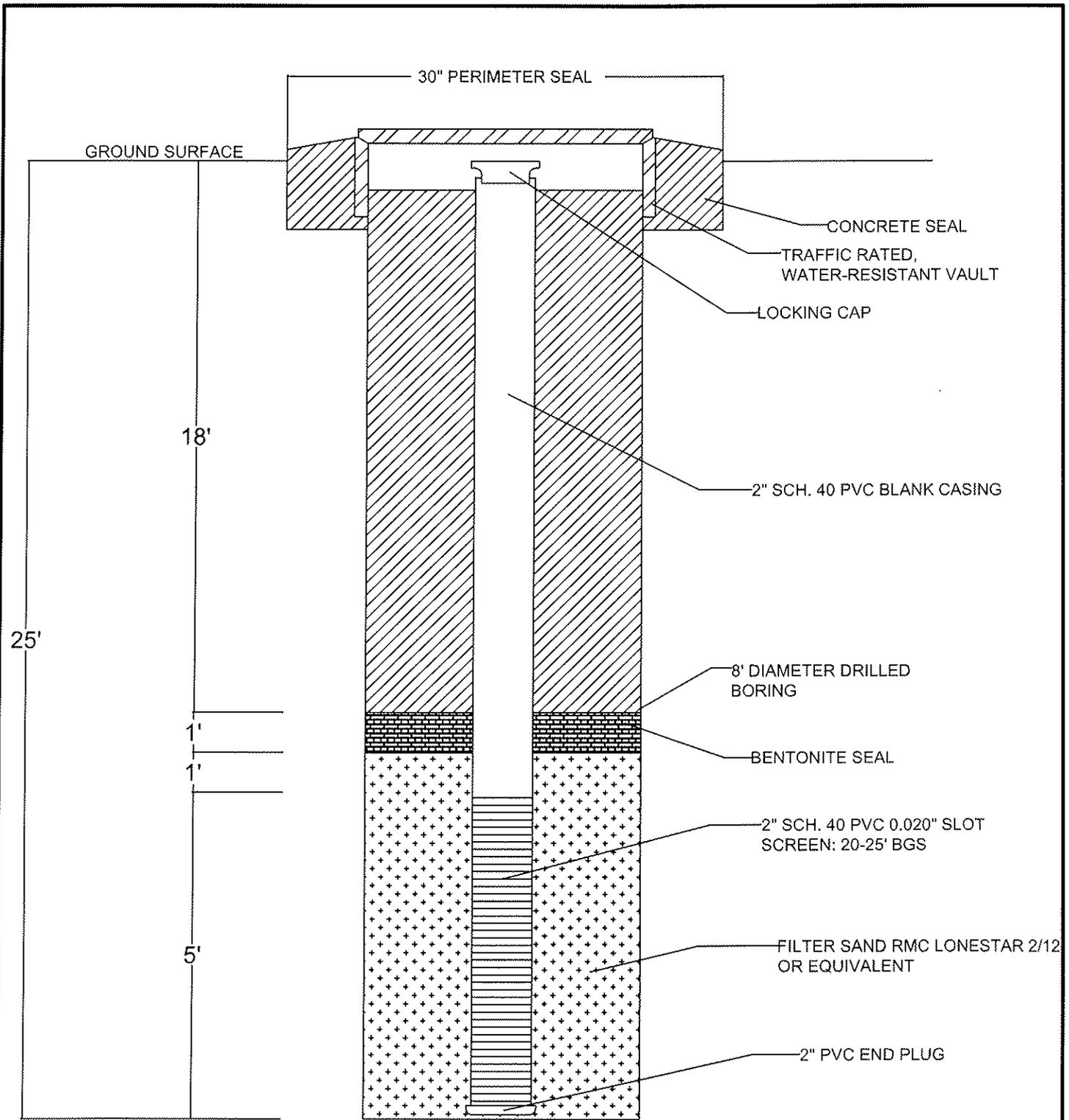


FIGURE 6
 REPLACEMENT GROUNDWATER MONITORING
 WELL CONSTRUCTION DETAIL
 76 SERVICE STATION NO. 1156
 4276 MACARTHUR BOULEVARD
 OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-3**

Page 1 of 2

▼ First Water Depth:
 ▽ Static Water Depth:

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
See Construction Detail					1		CL	Brown/green lean clay with sand and gravel, strong odor
					2			
					3			
					4		CH	Gray/green clay, strong odor
					5			Total Depth = 5'
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

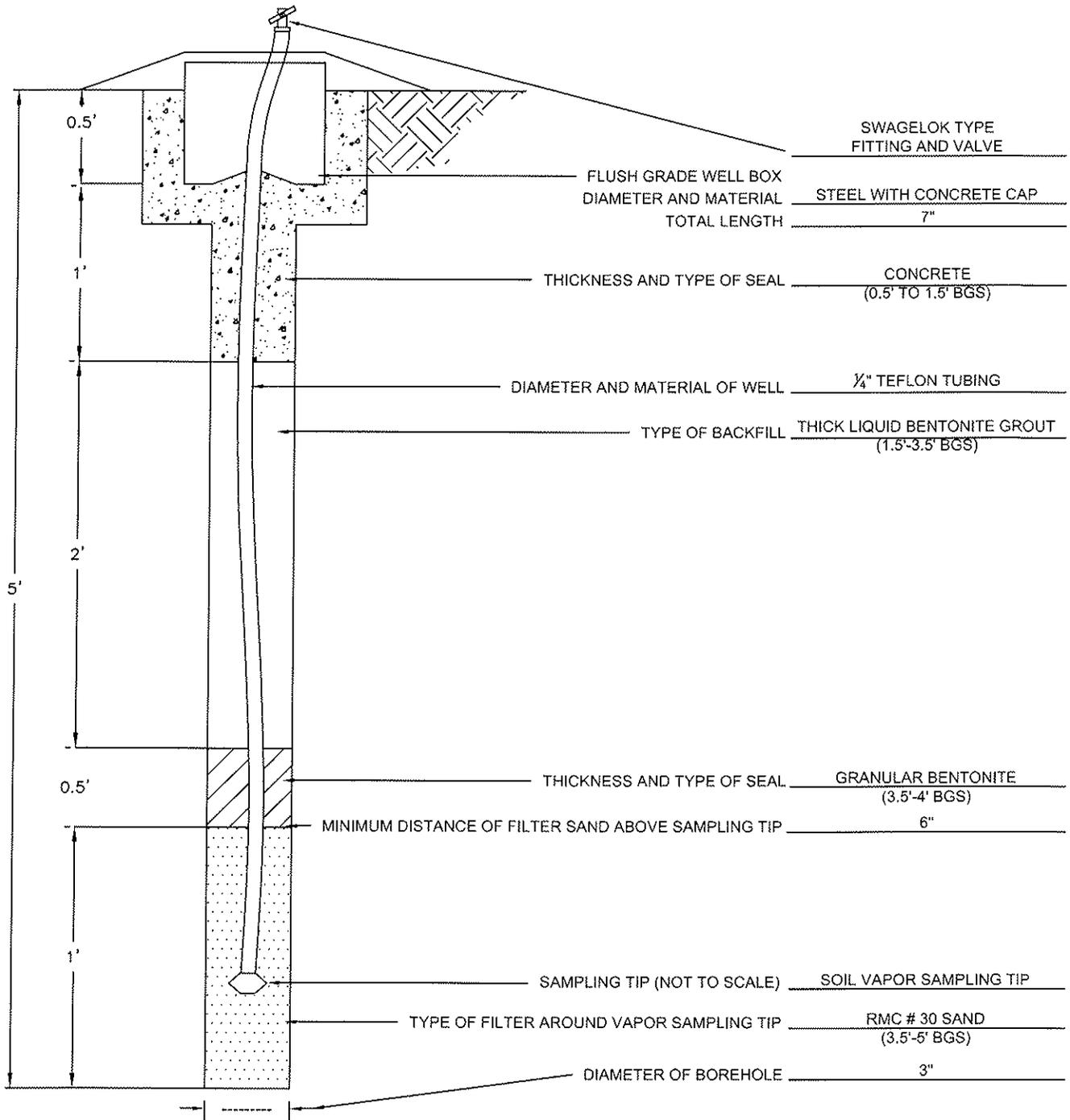


FIGURE 5
SOIL GAS WELL
CONSTRUCTION DETAIL
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: #30 Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-3**

Page 1 of 2

▼ First Water Depth:
 ▽ Static Water Depth:

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
See Construction Detail					1		CL	Brown/green lean clay with sand and gravel, strong odor
					2			
					3		CH	Gray/green clay, strong odor
					4			
					5		Total Depth = 5'	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

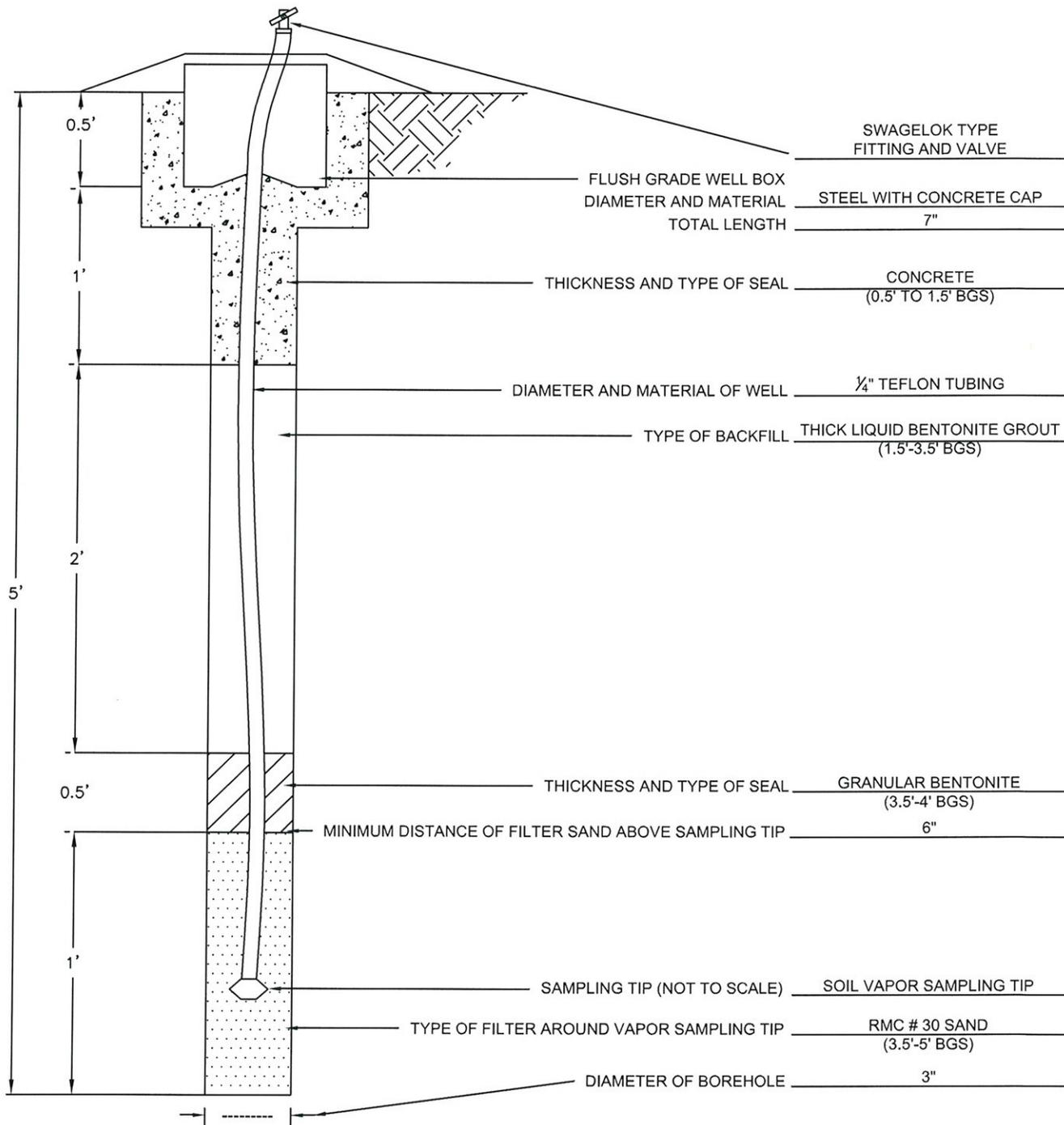


FIGURE 5
SOIL GAS WELL
CONSTRUCTION DETAIL
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

▼ First Water Depth:
 ▽ Static Water Depth:

Boring/Well No: **SVW-2**

Page 1 of 2

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
See Construction Detail					1		CL	Brown/green lean clay with sand and gravel, 20% sand, some gravel, cobbles, moist
					2			
					3			
					4			
					5		CH	Green/gray clay
					6		Total Depth = 5'	
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

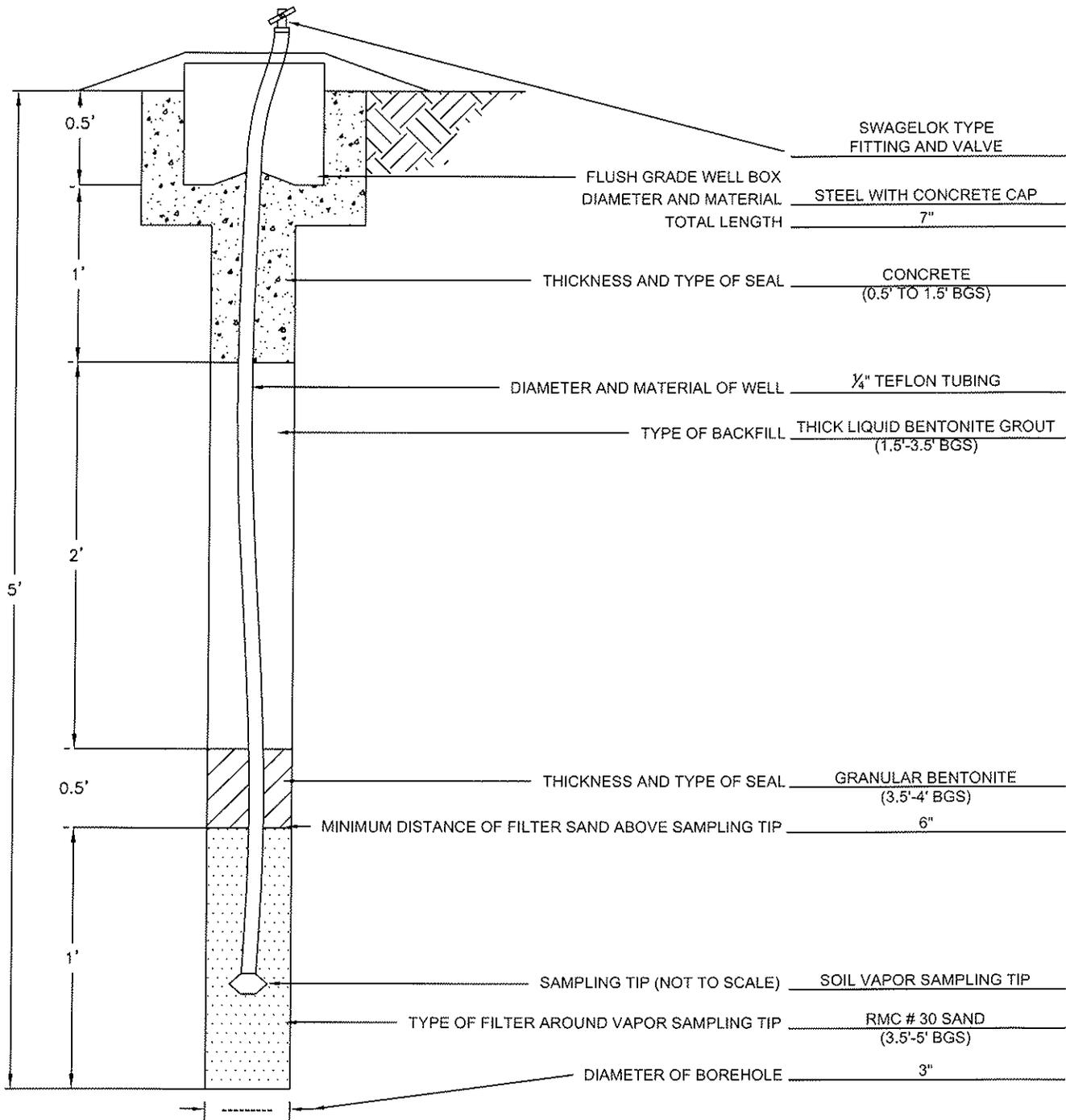


FIGURE 5
SOIL GAS WELL
CONSTRUCTION DETAIL
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
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WELL COMPLETION REPORT
(WELL LOGS)

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Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-1**

Page 1 of 2

▼ First Water Depth:
 ▽ Static Water Depth:

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
See Construction Detail					1		CL	Brown lean clay with sand and gravel, moist
					2			
					3		CH	Green/gray fat clay
					4			
					5		Total Depth = 5'	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

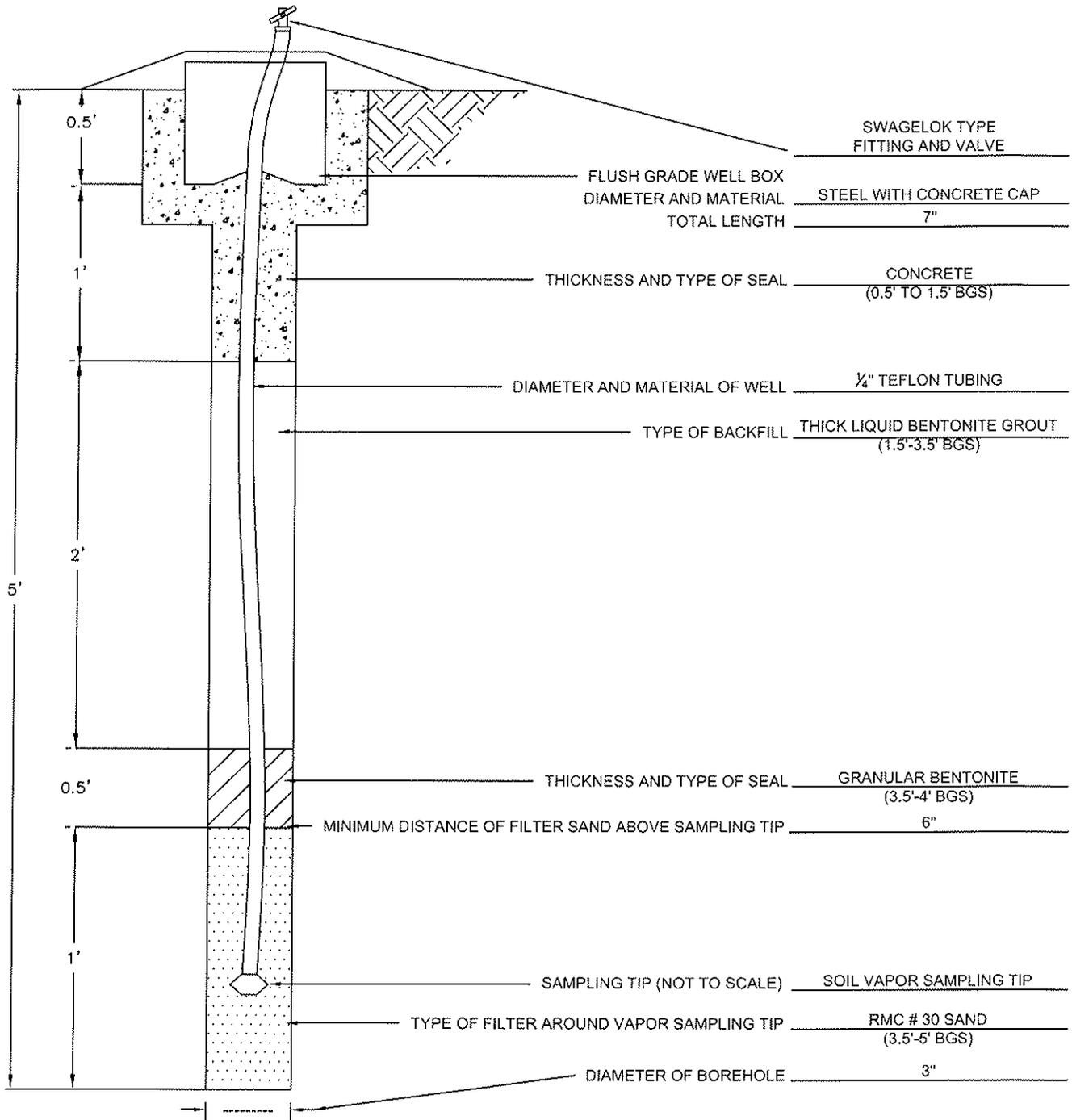


FIGURE 5
SOIL GAS WELL
CONSTRUCTION DETAIL
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-6**

Page 1 of 2

▼ First Water Depth:
 ▽ Static Water Depth:

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
See Construction Detail					1		CL	Green/gray lean clay with sand, some gravel, some odor, asphalt debris
					2			
					3			
					4			
					5		CH	Green/brown clay, strong odor
					6			Total Depth = 5'
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

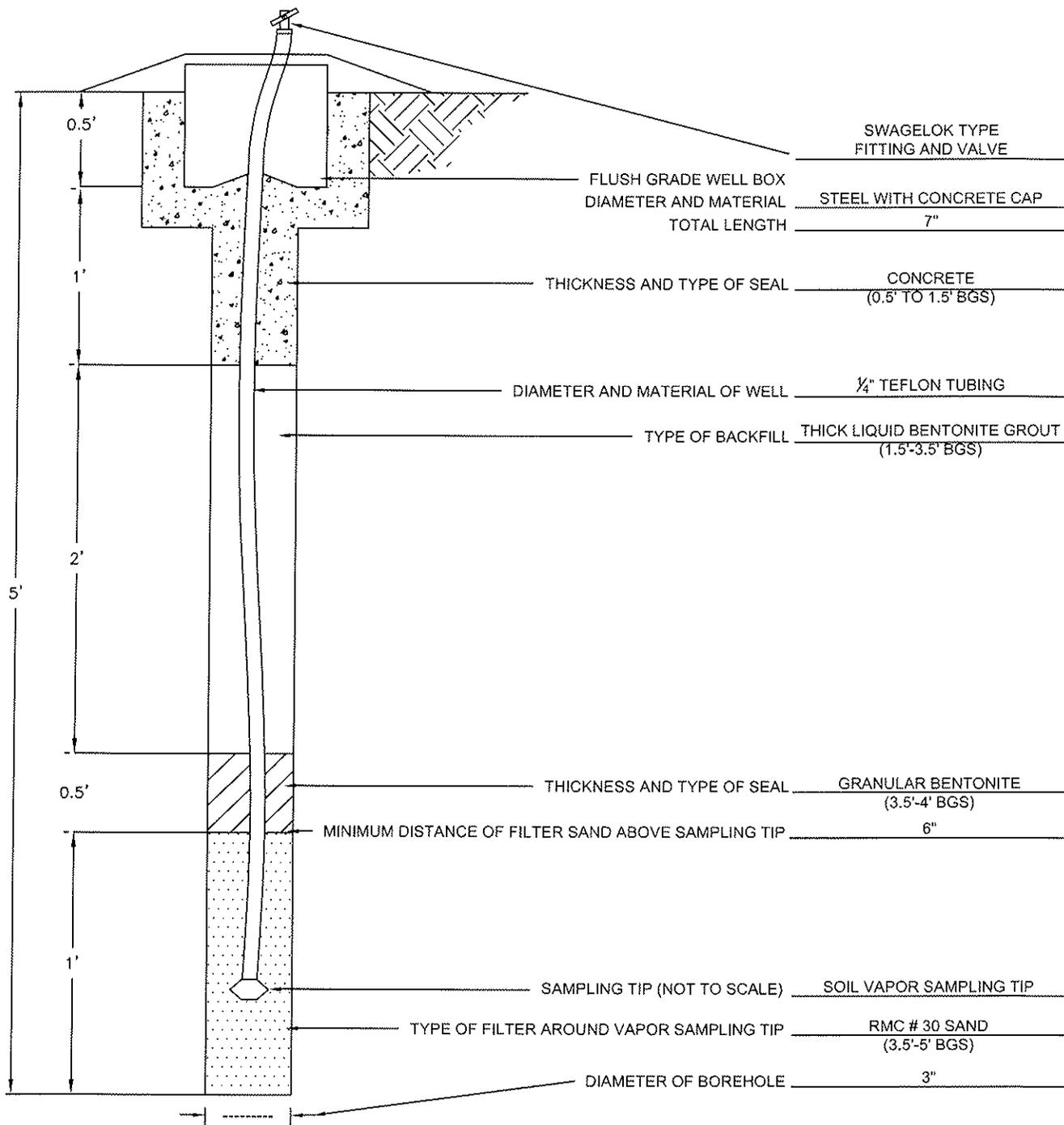


FIGURE 5
SOIL GAS WELL
CONSTRUCTION DETAIL
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30 First Water Depth:
 Static Water Depth:

Boring/Well No: **SVW-5**

Page 1 of 2

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION			
See Construction Detail					1		CL	Green/gray/black lean clay with sand, some gravel, wood debris, strong odor			
					2						
					3						
					4		CH	Greenish gray clay, strong odor			
					5						
					6			Total Depth = 5'			
					7						
					8						
					9						
					10						
					11						
					12						
					13						
					14						
					15						
					16						
					17						
					18						
					19						
					20						
					21						
					22						

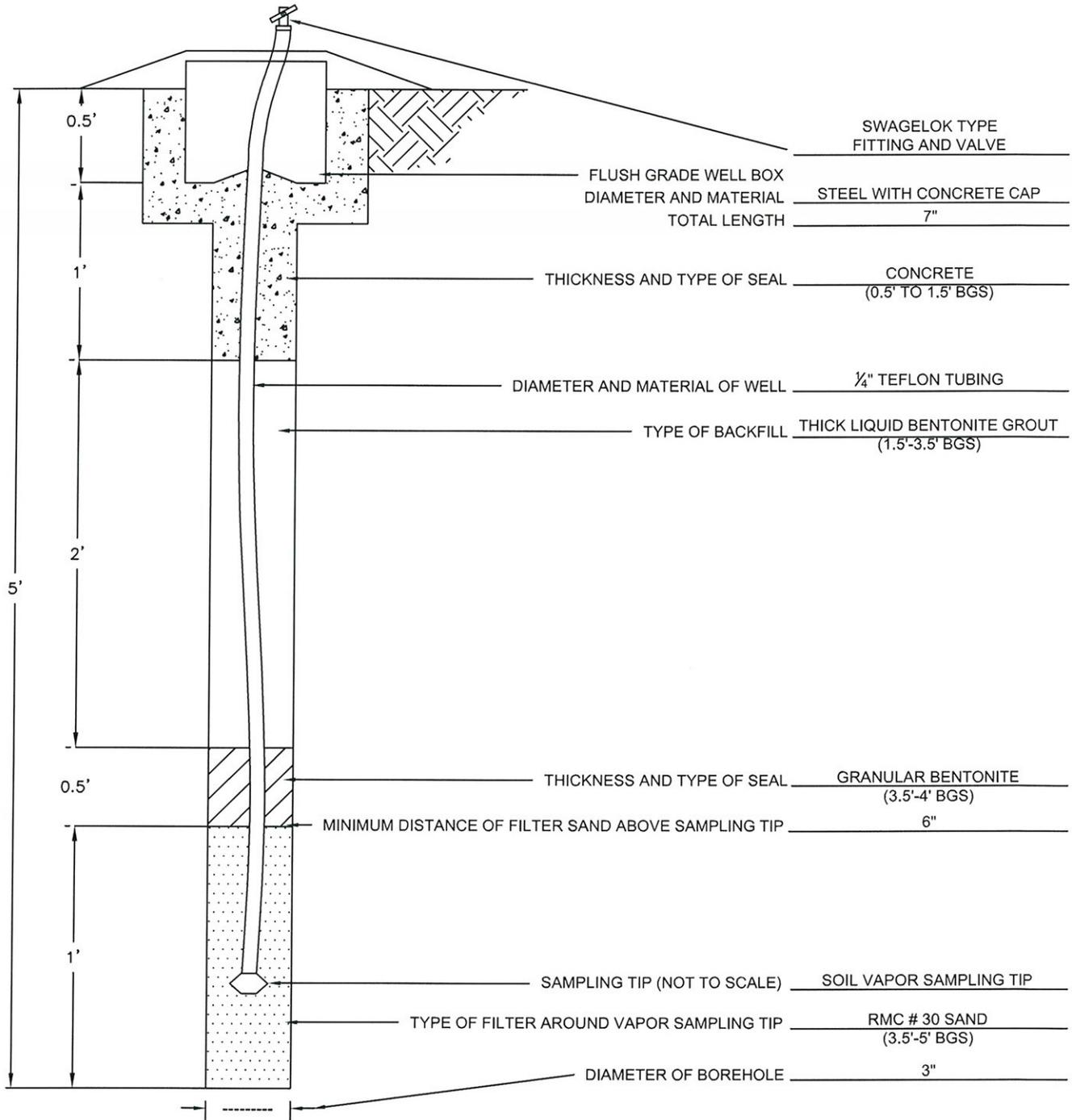


FIGURE 5
SOIL GAS WELL
CONSTRUCTION DETAIL
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/10/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: #30 Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-4**
 Page 1 of 2

▼ First Water Depth:
 ▽ Static Water Depth:

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
See Construction Detail					1		CL	Dark brown/greenish lean clay with sand, strong odor
					2			
					3		CH	Green/brown clay, strong odor
					4			
					5		Total Depth = 5'	
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

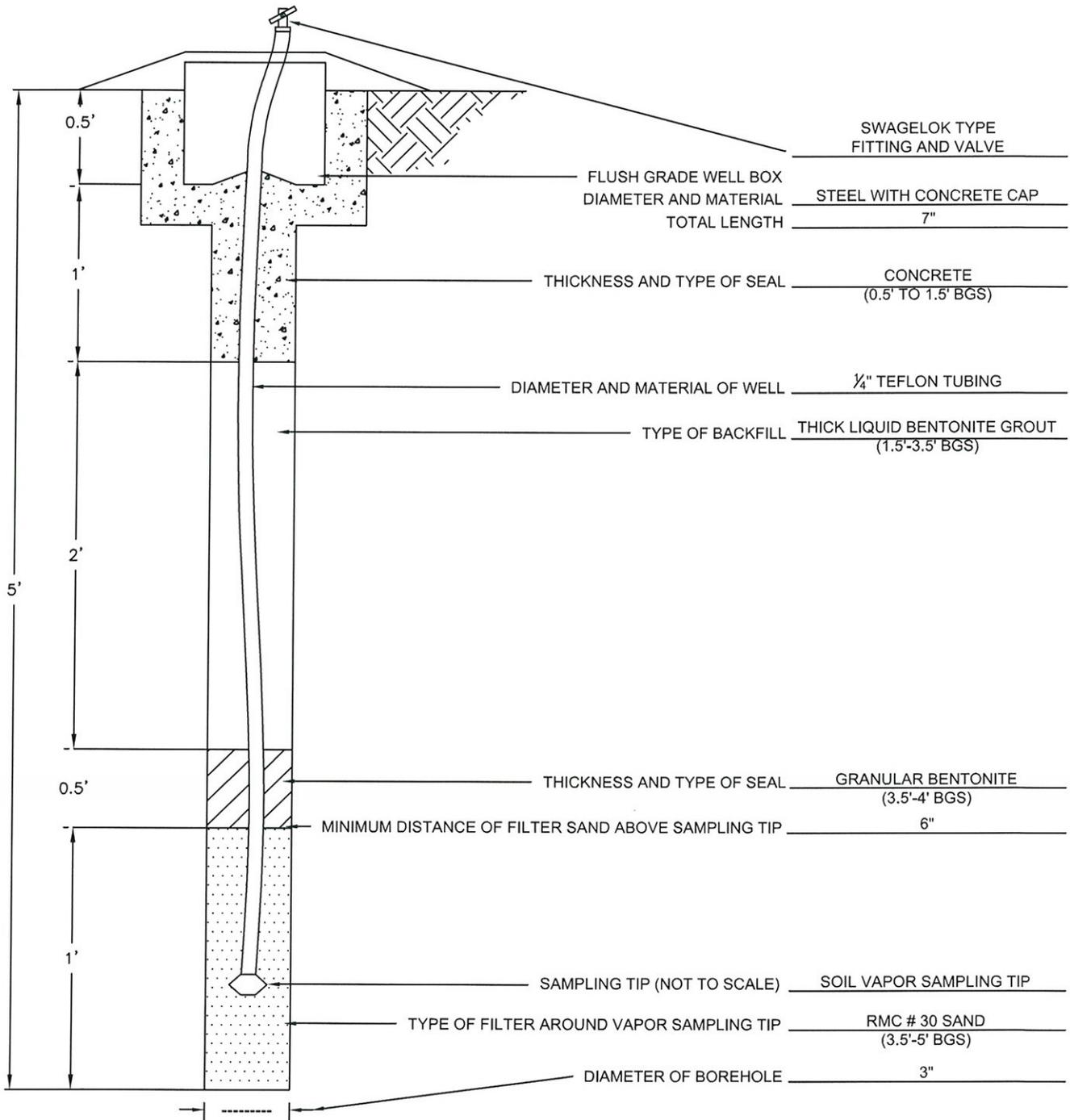


FIGURE 5
SOIL GAS WELL
CONSTRUCTION DETAIL
76 SERVICE STATION NO. 1156
4276 MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

PROJECT NO. C101-156	DRAWN BY JH 12/31/09
FILE NO. 76-1156	PREPARED BY AB
REVISION NO. 0	REVIEWED BY JB



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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Project No.: 2235 Boring: B4/MW4 Plate: APPENDIX
 Site: Tosco 76 Service Station 1156 Date: 7/16/99
 Drill Contractor: Woodward Drilling
 Sample Method: Split Spoon Geologist: MARK S. DOCKUM
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: *[Handwritten Signature]*
 Location: 18 Feet North of Southernmost Dispenser Registration: R.G. 4412
Island Parallel High Street Logged by: Dylan Crouse

DEPTH (ft)	BLDG. CODES	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						4 1/2" asphalt	
5-17	309					Clay, greenish gray, mottled, orange slightly damp, high plasticity	
10-22	253			CH		trace of medium-grained sand, slightly moist	
15-19	4					moist	
20-28	4					brownish yellow, black staining, 20% gravel, 20% medium-grained sand, moist	
25-36	0					brown, mottled, olive yellow, moist, black staining	
						Total depth at 26.5 feet. Groundwater encountered at 23.6 feet.	

Casing Diameter: 2" Slot Size: 010, Sand Size: 2/12, Grout: Portland I.II

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Project No.: 2235 Boring: B3/MW3 Plate: APPENDIX

Site: Tosco 76 Service Station 1156 Date: 7/16/99

Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: MARK S. DOCKUM

Drill Rig: B57 Bore Hole Diameter: 8" Signature: *Mark S. Dockum*

Location: Approximately 15' South West of Southern-- Registration: R.G. 4412

most Dispenser Island Parallel to High Street Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PD/OVM (ppm)	SAMPLE COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					4 1/2" asphalt	
					Clay, dark yellowish brown, mottled, trace of medium-grained sand, slightly damp, high plasticity, (15% sand, 85% clay)	
5-18	235			CH	brown, mottled gray, dry	
10-33	265				staining, trace of coarse gravel and rootlets (15% gravel, 85% clay), slightly damp	
15-25	81			CL	Sandy clay, greenish gray, mottled orange, some medium-grained sand, slight plasticity, caliche present, (35% sand, 65% clay)	
20-36	9			CH	Clay, strong brown, slight mottling, trace of medium-grained sand, 20% sand, high plasticity, black staining, 80% clay	
					Gravel, yellowish brown, wet	
25-25	0			GW		
				CH	Clay, trace of medium-grained sand, yellowish brown, very moist, high plasticity, (15% sand)	
				GW	Gravel, orange, slight plasticity, wet	
					Clay, yellowish brown, moist, high plasticity	
30-22	0			CH		
					Total depth at 31.5 feet. Groundwater encountered at 23.3 feet. Static groundwater at 12 feet.	

Casing Diameter: 2" Slot Size: .010" Sand Size: 2/12" Grout: Portland I.II

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Project No.: 2235 Boring: B2/MW2 Plate: APPENDIX

Site: Tosco 76 Service Station 1156 Date: 7/16/99

Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: MARK S. DOCKUM

Drill Rig: B57 Bore Hole Diameter: 8" Signature: *Mark S. Dockum*

Location: 2 Feet East of Southernmost Driveway Registration: R.G. 4412

Along MacArthur Boulevard Logged by: Dylan Crouse

DEPTH (ft)	BLOCK COUNTS	POD/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
0-5	11	20			CH	4" asphalt Clay, dark greenish gray, mottled reddish orange, some coarse-grained sand, slightly damp, high plasticity, (35% sand, 65% clay)	
5-10	18	0				15% fine gravels up to 0.5", 20% sand, medium-grained, damp	
10-15	21	130			CL	Silty clay, orange brown, mottled green gray, (35% silt, 65% clay), moist, medium plasticity	
15-20	29	20				gravelly clay, light yellowish brown, (40% fine gravel, 60% clay), medium plasticity, very moist, black staining	
20-25	45	18			ML	Sandy clay, trace of silt, yellowish brown, wet, medium plasticity, (35% sand, 15% silt, 50% clay)	
						Total depth at 26.5 feet. Groundwater encountered at 23' 6".	

Casing Diameter: 2" Slot Size: D10, Sand Size: 2/12, Grout: Portland III

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Project No.: 2235 Boring: P* / MW1 Plate: APPENDIX
 Site: Tosco 76 Service Station 11. Date: 7/16/99
 Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: MARK S. DOCKUM
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: *[Signature]*
 Location: 10 Feet North of Northwestern Corner Registration: R.G. 4412
 of Station Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					2 1/2" asphalt	
				CH	Clay, grayish green, very moist, high plasticity	
5	39	253		SP	Sand, fine-grained, grayish green, moist, no plasticity, black staining	
				CH	Clay, grayish green, very moist, high plasticity	
10	27	87		ML	Silty sand, fine-grained sand, black, very moist, no plasticity, (65% silt, 35% sand)	
				CL	Clay, with some sand, medium-grained, light olive brown, medium plasticity, wet	
15	36	222				
				CL	sandy clay, strong brown, (40% sand, 60% clay)	
20	37	22				
					yellow orange, high plasticity, very moist	
25	33	9				
					Total depth at 26.5 feet. Groundwater encountered at 23'7".	

Casing Diameter: 2" Slot Size: 010, Sand Size: 2/12, Grout: Portland I.II

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Delta Consultants

Project No: **C101156151**
 Logged By: **Tabbitha Croy**
 Driller: **Gregg Drilling & Testing**
 Drilling Method: **HSA**
 Sampling Method: **Split Spoon**
 Casing Type: **Schedule 40 PVC**
 Slot Size: **0.010"**
 Gravel Pack: **#2/12**

Client: **ConocoPhillips**
 Location: **4276 MacArthur Boulevard**
Oakland, CA
 Hole Diameter: **8"**
 Hole Depth: **25'**
 Well Diameter: **2"**
 Well Depth: **25'**
 First Water Depth: **23'**

Well No: **MW-8**
 Date Drilled: **10/30/07**
 Page 1 of 2

- ▽ = First Water
- ▼ = Static Groundwater
- * = Selected for lab analysis

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
		▼							Concrete = 6"
					Air-Knife	1			CL Silty clay; black and brown; medium soft; medium to high plasticity; low toughness; trace orange mottling; moist; (0,0,100)
						2			
						3			
						4			
			moist	0.1	@ 5 9:46	5	↑		CL Lean clay; black; medium stiff; medium plasticity and toughness; some fine sand; some fine to medium sub round gravel; moist; no odor; (15,20,65)
						6	↓		
						7			
						8			
						9			
			moist	0.2	@ 10* 9:51	10	↑		Tan; some orange mottling; trace roots; some black staining; slight odor; (5,15,80)
						11	↓		
						12			
						13			
						14			
			moist	0.2	@ 15* 9:56	15	↑		CL Sandy clay; tan; orange mottling; trace roots; trace black staining; medium stiff; medium plasticity and toughness; sand fine grain; moist; no odor; (0,40,60)
						16	↓		
						17			
						18			
			moist	0.2	@ 20* 10:P37	19	↑		Soft; medium to high plasticity; low toughness; (0,30,70)
						20	↓		
						21			
						22			SC

Delta Consultants

Project No: **C101156151**
 Logged By: **Tabbitha Croy**
 Driller: **Gregg Drilling & Testing**
 Drilling Method: **HSA**
 Sampling Method: **Split Spoon**
 Casing Type: **Schedule 40 PVC**
 Slot Size: **0.010"**
 Gravel Pack: **#2/12**

Client: **ConocoPhillips**
 Location: **4276 MacArthur Boulevard**
Oakland, CA
 Hole Diameter: **8"**
 Hole Depth: **25'**
 Well Diameter: **2"**
 Well Depth: **25'**
 First Water Depth: **23'**

Well No: **MW-8**
 Date Drilled: **10/30/07**
 Page 2 of 2

- ▽ = First Water
- ▼ = Static Groundwater
- * = Selected for lab analysis

Elevation Northing Easting

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
		▽				23			
						24	↑ ↓		SC Clayey sand; tan; orange mottling; medium grain; poorly graded; loose; wet; no odor (0,65,35)
						25			
						26			Total Depth = 25 feet bgs
						27			
						28			
						29			
						30			
						31			
						32			
						33			
						34			
						35			
						36			
						37			
						38			
						39			
						40			
						41			
						42			
						43			
						44			

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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

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Project No.: 2235 Boring: MW6 Plate: Attachment
 Site: Tosco 76 Service Station 1156 Date: 8/29/01
 Drill Contractor: Woodward Drilling Company, Inc.

Sample Method: Split Spoon Geologist: JOHN B. ROBBITT
 Drill Rig: BK-81 Bore Hole Diameter: 8" Signature: *[Signature]*
 Location: Western side of MacArthur Boulevard Registration: R.G. 4313
 approx. 30 feet north of Shell station Logged by: Rob Saur

DEPTH (ft)	BLF COUNTS	PD/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						6" Concrete	
5	24	10.6				CLAYEY SILT: greenish gray, very moist, medium plasticity.	
10	19	10.0			ML	light brown, trace of fine-grained sub-angular sand (approx. 5%).	
15	24	6.0				CLAYEY SILT WITH SAND: light brown, fine-grained sub-angular sand (approx. 15%).	
20	48	7.7			SM	SAND WITH SILT: orange brown, wet, medium-grained well-sorted well-rounded sand.	
25	50 5"					Boring terminated at 25 feet. Boring converted to groundwater monitoring well. Groundwater encountered at 5.5 feet.	

Casing Diameter: 2" Slot Size: 0.020" Sand Size: #3 Grout: Portland Cement

APPENDIX E
Boring Logs for Sonic Borings, Replacement
Monitoring Wells, and Soil Vapor Wells

Delta Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/17/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12 ▼ First Water Depth:
 ∇ Static Water Depth:

Boring/Well No: **MW-1B**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill Casing	Water Level		299	MW-1B -5	1				Airknife to 5'	
					2				Brown and grayish-sgrren clay	
					3					
					4					
					5					
					MW-1B -10	6			CL	Greenish-gray sandy lean clay with gravel, 15% sand, 15%, gravel, strong odor, damp
				7						
				8						
				9						
				10						
					MW-1B -15	11			CL	Black lean clay with sand, mottled with granular black organic material, 20% sand, strong odor, moist
				12						
				13						
				14						
				15						
					MW-1B -20	16			CL	Brown sandy clay, fine-course sand, 35% sand, strong odor, damp
				17						
				18						
				19						
				20						
					MW-1B -20	21			CL	Black sandy lean clay with gravel, 30% sand, 10% gravel, strong odor, wet
				22					CL	Brn lean clay with sand, 25% sand, some odor, damp

Delta

Environmental Consultants, Inc.

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/17/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12

Boring/Well No: **MW-1B**

Page 2 of 2

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
	▼		44	MW-1B -25	23		CL	Brown sandy gravelly clay, 25% sand, 10% gravel, saturated, mild odor
					24		CL	Brown sandy clay, 15% samp, mild odor, damp
					25			Total Depth = 25'
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Delta Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12 ▼ First Water Depth:
 ∇ Static Water Depth:

Boring/Well No: **MW-2B**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION	
Backfill Casing	Water Level		181	MW-2B-5	1		CL	Airknife to 5'	
					2			Brown and greenish lean clay with sand	
					3				
					4				
					5				
			0	MW-2B-10	6		CL	Light brown/green mottled lean clay with sand, 15% sand, strong odor, damp	
					7				
					8				
					9				
					10			CH	Greenish fat clay, dense, damp, odor
					11				
			120	MW-2B-15	12		CL		
					13				
					14				
					15			Green lean clay with sand, 15% med-course sand, damp, odor	
					16				
			8	MW-2B-20	17		CL		
					18				
					19				
					20			Dark borwn lean clay with sand, 15% sand, fine-med sand, damp, odor	
					21				
					22				

Delta

Environmental Consultants, Inc.

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12

Boring/Well No: **MW-2B**

Page 2 of 2

▼ First Water Depth: 23.5'
 ▽ Static Water Depth:

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing			190	MW-2B-25	23			Brown lean clay with sand, 25% sand, some gravel, mild odor
					24		CL	Black/brown mottled clay, damp, mild odor
					25			Total Depth = 25'
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Delta Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12 ▼ First Water Depth:
 ∇ Static Water Depth:

Boring/Well No: **MW-3B**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION			
Backfill Casing	Water Level		6	MW-3B -5	1			CL	Airknife to 5' Brown lean clay with sand, some gravel, no odor			
					2							
					3							
					4							
					5							
							36	MW-3B -10	6		CL	Light brown/greenish mottled clay, moist, slight odor
				7								
				8								
				9								
				10								
							790	MW-3B -15	11		CH	Light brown/green/black mottled lean clay with sand, 15% fine sand, damp, mild odor
				12								
				13								
				14								
				15								
							9	MW-3B -20	16		CL	Light brown/green mottled lean clay with sand, 20% fine-med sand, damp, strong odor
				17								
				18								
				19								
				20								
								MW-3B -20	21		CH	Light brown fat clay, damp, mild odor
				22								
							CL	Dark brown lean clay with sand, 15% fine sand, damp, mild odor				

Delta

Environmental Consultants, Inc.

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12

Boring/Well No: **MW-3B**
 Page 2 of 2

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
			15	MW-3B -25	23		CL	
					24			
					25			Light brown lean clay with sand, 30% fine-med sand, moist, very slight odor Total Depth = 25'
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Delta Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/13/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12 ▼ First Water Depth:
 ∇ Static Water Depth:

Boring/Well No: **MW-4B**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing	Water Level		2.1	MW-4B-5	1			GC	Airknife to 5' Brown clayey gravel with sand,
					2				
					3				
					4				
					5			GW	Well graded gravel with sand, cobbles up to 4"
				MW-4B-10	6			SW-SM	Greenish gray well graded sand with silt and gravel, 60% sand, 20% gravel, no odor
					7				
					8				
					9				
					10			SW-SM	Black well graded sand with silt, 60% fine sand, strong odor
					11				
				MW-4B-15	12				
					13				
					14				
					15			CL	Brown/green mottled lean clay with sand, 15% fine sand, some odor
					16				
				MW-4B-20	17				
					18				
					19				
					20			CL	Brown/black mottled sandy lean clay, 30% fine-med sand, some odor
					21				
					22				

Delta

Environmental Consultants, Inc.

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/16/2010
 Drilling Method: HAS Hole Diameter: 8"
 Sampling Method: Split Spoon Hole Depth: 25'
 Casing Type: Sch 40 Well Diameter: 2"
 Slot Size: 0.02 Well Depth: 25'
 Gravel Pack: 2/12

Boring/Well No: **MW-4B**
 Page 2 of 2

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
			19	MW-4B -25	23		CL	
					24			
					25			Brown lean clay, 10% fine-med sand, some odor Total Depth = 25'
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Delta

Consultants

Project No: C101156
 Logged By: C. Morgan
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
Oakland, California
 Hole Diameter: 3"
 Hole Depth: 20'
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-19
 Date Drilled: 06/15/10
 Page 1 of 1

▽ = First Water

▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION	
										Backfill
Neat Cement				Hand Augered	1					
					2					
					3					
					4					
					5					
					33.7	SB-19 @ 7.5 2:30	7		CL	Clay; gray with visible green contamination; some gravel.
					26.9	SB-19 @ 10 2:30	10		CL	Same as above.
							11			
							12			
							13			
					55.3	SB-19 @ 15 2:30	14		CL-ML	Sandy clay; light brown to tan; some green contamination present; very firm; moist.
							15			
							16			
							17			
							18			
					58.4	SB-19 @ 20 2:52	19		CH-ML	Silty clay with gravel; gray and some orange increased moisture; slight odor.
							20			Boring terminated at 20 feet bgs.
							21			
							22			

Delta

Consultants

Project No: C101156
 Logged By: A.Buehler
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
 Oakland, CA

Boring No: SB-12
 Date Drilled: 06/14/10
 Page 1 of 3

▽ = First Water

▼ = Static Groundwater

Elevation

Northing

Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION	
										Backfill
Neat Cement				Hand Augered	1					
					2					
					3					
					4					
					5					
				5.2	SB-12 @ 12 9:44	6			CL	Sandy lean clay with gravel; brown with visible green contamination; moist.
						7				
						8				
						9				
				30.1	SB-12 @ 10 9:58	10			CL	Sandy lean clay clay; light brown; wet.
						11				
						12				
						13				
						14				
				NA	SB-12 @ 15 10:25	15			CL	Same as above. Saturated.
						16				
						17				
						18				
						19				
				64.7	SB-12 @ 20 10:36	20			CL	Sandy lean clay; brown; moist.
						21				
						22				

Delta Consultants

Project No: C101156
 Logged By: A. Buehler
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
 Oakland, CA
 Hole Diameter:
 Hole Depth:
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-12
 Date Drilled:
 Page 3 of 3

▽ = First Water
 ▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement			NA	SB-12 @ 45 11:45	45			CL	Same as above with 20% gravel; 10% sand; damp.
					46				Sandy clay; light brown; 20% sand, no odor.
					47				
					48				
					49				
					50			CL	Same as above, with 15% gravel and 15% sand.
			3.3		SB-12 @ 50 11:54	50			Boring terminated at 50 feet bgs.
						51			
						52			
						53			
						54			
						55			
						56			
						57			
						58			
						59			
						60			
						61			
						62			
						63			
						64			
						65			
					66				

Delta

Consultants

Project No: C101156
 Logged By: A.Buehler
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
 Oakland, CA
 Hole Diameter:
 Hole Depth:
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: **SB-13**
 Date Drilled: 06/18/10
 Page 1 of 1

▽ = First Water

▼ = Static Groundwater

Elevation Northing Easting

Boring Completion Backfill	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Analyzed		
Neat Cement				Hand Augered SB-13 @ 6 8:45	1				
					2				
					3				
					4				
					5				
					6				Black, sandy, granular, tar-like material, very strong odor
					7				Boring terminated at 6 feet bgs due to refusal.
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

Delta

Consultants

Project No: C101156
 Logged By: C. Morgan
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
Oakland, CA
 Hole Diameter: 3"
 Hole Depth:
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-14
 Date Drilled: 06/17/10
 Page 1 of 3

▽ = First Water

▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION				
										Backfill			
Neat Cement	▽			Hand Augered	1			CL	Clay; green, visible contamination; with some tan, black and white gravel.				
					2								
					3								
					4								
					5								
							3335	SB-14 @ 8 11:50	8			CL	Lean Clay with sand; gray with visible green contamination, strong odor; moist.
							5553	SB-14 @ 10 11:50	9				
							107.5	SB-14 @ 15 11:54	10			CL	Same as above, with small coarse grained white and tan gravel at 16.5 to 18 feet bgs; moist.
									11				
									12				
									13				
									14				
									15			CL	Same as above, with increased fines at 21 feet bgs.
									16				
									17				
									18				
									19				
							11.2	SB-14 @ 20 12:01	20			CL	Same as above, with continued increased fines; gravel also present.
									21				
									22			GC	Clayey Gravel with sand, thumb-sized white

Delta

Consultants

Project No: C101156
 Logged By: C.Morgan
 Driller: **Gregg Drilling**
 Drilling Method:
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
Oakland, CA

Boring No: SB-14
 Date Drilled: 06/17/10
 Page 2 of 3

▽ = First Water
 ▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION		
										Backfill	
Neat Cement			11.9	SB-14 @ 26 12:07	23			CH	rock present; less odor than at previous depths.		
					24						
					25						
					26						
					27						
					28						
			NA	SB-14 @ 30 12:07	NA	NA	29			CH	Same as above.
							30				
							31				
							32				
							33				
							34				
			10.5	SB-14 @ 35 12:16		10.5	35			CL	Lean clay; light brown to tan; some small grained gravel; firm; slight odor; moist.
							36				
							37				
							38				
							39				
							40				
			18.5	SB-14 @ 40 12:22		18.5	40			CL	Same as above, with increased moisture and softness.
							41				
							42				
							43				
			44								

Delta

Consultants

Project No: C101156
 Logged By: C.Morgan
 Driller: **Gregg Drilling**
 Drilling Method:
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
Oakland, CA
 Hole Diameter:
 Hole Depth:
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-14
 Date Drilled: 06/17/10
 Page 3 of 3

▽ = First Water
 ▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION	
										Backfill
Neat Cement	▽		14.5	SB-14 @45 12:28	45			CL	<i>Possible second water bearing zone.</i> Sandy lean clay with silt to 48 feet bgs, then clay with sand and gravel to bottom of boring. <hr style="border-top: 1px dashed black;"/> Boring terminated at 50.5 feet bgs.	
			10.6	SB-14 @ 50 12:28	50					
						51				
						52				
						53				
						54				
						55				
						56				
						57				
						58				
						59				
						60				
						61				
						62				
						63				
						64				
						65				
						66				

Delta

Consultants

Project No: C101156
 Logged By: C. Morgan
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: 4276 MacArthur Blvd.
 Oakland, CA
 Hole Diameter: 3"
 Hole Depth:
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-15
 Date Drilled: 06/17/10
 Page 1 of 2

▽ = First Water

▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION					
										Backfill				
Neat Cement	▽		14.8	Hand Augered	1				Sandy gravel; brown.					
					2									
					3									
					4									
					5									
							24.4	SB-15 @ 5 2:01	5			CH	Tight fat clay, with fine grained sand; at approx 8 feet bgs, color had orange mottling, otherwise constant lithology to 11.5 feet.	
								6						
									7					
									8					
									9					
									10					
									11					
									12					
									13					
									14					
									15					
							6.3	SB-15 @ 15 2:04	15				CH	Same as above to 16 feet bgs.
									16				CL	Sandy lean clay; fine grained; increased moisture.
									17					
									18				GC	Sandy gravel with clay from 17.5 to 18 feet; moist-saturated.
									19					
									20					
			12.3	SB-15 @ 21 2:10	21				GC	Same as above, with thumb-sized, angular to subangular gravel.				
					22									

Delta Consultants

Project No: C101156
 Logged By: C.Morgan
 Driller: **Gregg Drilling**
 Drilling Method:
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
Oakland, CA

Boring No: SB-15
 Date Drilled: 06/17/10
 Page 2 of 2

Hole Diameter:
 Hole Depth:
 First Water Depth:
 Static Water Depth:
 Well Depth:

▽ = First Water

▼ = Static Groundwater

Elevation Northing Easting

Boring Completion Backfill	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement			10.9	SB-15 @ 26.5 2:18	23	█		GC	Same as above.
					24	█			
					25	█			
					26	█			
					27	█			
					28	█			
					29	█			
					30	█			
					31	█			
					32	█			
					33	█			
					34	█			
					35	█			
					36	█			
					37	█			
					38	█			
					39	█			
					40	█			
					41	█			
			10.7	SB-15 @ 35 2:24	35	█		CL	Same as above, moist.
			2.6	SB-15 @ 40 2:40	40	█		CL	Same as above.
					41	█			Boring terminated at 41 ft due to refusal.
					42				
					43				
					44				

Delta

Consultants

Project No: C101156
 Logged By: A. Buehler
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method: Direct Push
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 Mac Arthur Blvd.**
Oakland, CA
 Hole Diameter: 3"
 Hole Depth: 5.5'
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-16
 Date Drilled: 6/17/10
 Page 1 of

▽ = First Water

▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION	
Neat Cement				Air-Knife	1					
					2					
					3					
					4					
				53.4		5				
						6				
						7				
			moist		SB-16 @ 8'	8			CL	Lean clay; brown with green mottling, 5% sand, moist, strong odor.
						9				
			moist	90.1	SB-16 @ 10'	10				
						11				
			moist		SB-16 @ 10:49	12			CL	Lean clay; light brown, <5% fine grained sand, very dense/firm, moist, strong odor.
						13				
						14				
				13.7	SB-16 @ 15'	15			CL	Same as above, with light brown and orange mottling to 16 feet bgs.
					12:55	16				
						17				
						18			CL	Same as above to 21 feet bgs.
						19				
				12.0	SB-16 @ 20'	20			GC	Clayey gravel with sand, bown, wet
					1:00	21				
						22				

Delta

Consultants

Project No: C101156
 Logged By: A. Buehler
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method: Direct Push
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 Mac Arthur Blvd.**
Oakland, CA
 Hole Diameter: 3"
 Hole Depth: 5.5'
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-16
 Date Drilled: 6/17/10
 Page 3 of 3

 = First Water

 = Static Groundwater

		Elevation			Northing			Easting			
Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION		
Neat Cement			11.5	SB-16 @ 46' 1:46	45			CL	Clay; brown with <5% coarse grained sand very dense; moist.		
			8.3	SB-16 @ 50' 1:48	46			CL	Clay; tan with orange mottling <10% sand with some gravel; moist; very dense/firm.		
					47						
					48						
					49						
					50				Boring Terminated @ 50' bgs.		
					51						
					52						
					53						
					54						
					55						
					56						
					57						
					58						
					59						
					60						
					61						
					62						
					63						
					64						
					65						
					66						

Delta Consultants

Project No: C101156
 Logged By: C. Morgan
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method: Direct Push
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 Mac Arthur Blvd.**
Oakland, California
 Hole Diameter: 3"
 Hole Depth:
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-17
 Date Drilled: 06/16/10
 Page 1 of 3

▽ = First Water

▼ = Static Groundwater

Elevation

Northing

Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION					
										Backfill				
Neat Cement	▽		259.0	Hand Augered SB-17 @ 5 10:25	1									
					2									
					3									
					4									
					5									
							239.0	SB-17 @ 10 10:28	6			CL	Sandy lean clay; gray with visible green contamination; trace amount of wood chips and coarse grained sand, pea to thumb sized gravel from 6-8 feet bgs.	
									8			CL	Same as above, however sand becomes fine grained. Clay has more tan and orange coloring with hints of green contamination. Strong petroleum hydrocarbon odor.	
									10					
									11					
									12					
									13					
									14					
							19.4	SB-17 @ 15 10:30	15				CL	Sandy lean clay with gravel, pea to thumb sized gravel, green and gray, moist, strong hydrocarbon odor.
									16				CL	Lean Clay with sand; tan, orange and some white and red mottling; more firm, and more coarse grained sand; moist.
									17					
									18					
							79.4	SB-17 @ 20 10:11	19				CL	Sandy lean clay with gravel, green, and white trace roots; rounded to subrounded, thumb sized gravel, very moist.
									20					
									21					
					22				CL	Same as above, however sandy clay becomes orange to tan; still very moist.				

Delta Consultants

Project No: C101156 Client: **ConocoPhillips**
 Logged By: C. Morgan Location: **4276 Mac Arthur Blvd.**
 Driller: **Gregg Drilling** **Oakland, California**
 Drilling Method: Sonic Hole Diameter: 3"
 Sampling Method: Direct Push Hole Depth:
 Casing Type: First Water Depth:
 Slot Size: Static Water Depth:
 Gravel Pack: Well Depth:

Boring No: SB-17
 Date Drilled: 06/16/10
 Page 2 of 3

 = First Water

 = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION
Neat Cement			NA	SB-17 @ 25 10:17	23			CL	Same as above, with increased firmness.
					24				
					25				
					26				
					27				
					28				
					29				
					30				
					31				
					32				
					33				
					34				
					35				
					36				
					37				
					38				
					39				
					40				
					41				
					42				
					43				
					44				
			12.5	SB-17 @ 30 10:20	30			CL	Same as above.
			3.8	SB-17 @ 35 10:24	35			CL	Same as above.
			10.5	SB-17 @ 40 10:44	40			CL	Same as above.

Delta Consultants

Project No: C101156 Client: **ConocoPhillips**
 Logged By: C. Morgan Location: **4276 Mac Arthur Blvd.**
 Driller: **Gregg Drilling** **Oakland, California**
 Drilling Method: Sonic Hole Diameter: 3"
 Sampling Method: Direct Push Hole Depth:
 Casing Type: First Water Depth:
 Slot Size: Static Water Depth:
 Gravel Pack: Well Depth:

Boring No: SB-17
 Date Drilled: 06/16/10
 Page 3 of 3

 = First Water
 = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Analyzed		
Neat Cement					45			CL	same as above.
					46				
					47				
					48				
					49				
					50				
					51				
					52				
					53				
					54				
					55				
					56				
					57				
					58				
					59				
					60				
					61				
					62				
					63				
					64				
					65				
					66				

36 SB-17 @ 47 11:02

9.2 SB-17 @ 50 11:03

Boring terminated at 50.5 feet bgs.

Delta

Consultants

Project No: C101156
 Logged By: C. Morgan
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
Oakland, California
 Hole Diameter:
 Hole Depth:
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-18
 Date Drilled: 06/14/10
 Page 1 of 1

▽ = First Water

▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION			
										Backfill		
Neat Cement			12.5	Hand Augered	1							
					2							
					3							
					4							
					5							
				SB-18 @ 7.5 3:05	CL	6						
						7						
						8					Fat clay, gray and green, some thumb sized white gravel/rock, moist.	
						9						
						10						
						11						
						12						
						13						
						14						
						15					Fine grained silty sand; black, saturated, very strong odor	
						16					Fat clay with sand, tan and gray, visible contamination.	
						17						
						18						
						19					Clay with silt and sand; tan to gray; increased moisture; fine grained sand more abundant in bottom of sample with tan and orange coloring.	
						20					Boring terminated at 20 feet bgs.	
				21								
				22								

Delta Consultants

Project No: C101156
 Logged By: C. Morgan
 Driller: **Gregg Drilling**
 Drilling Method: Sonic
 Sampling Method:
 Casing Type:
 Slot Size:
 Gravel Pack:

Client: **ConocoPhillips**
 Location: **4276 MacArthur Blvd.**
Oakland, California
 Hole Diameter: 3"
 Hole Depth: 20'
 First Water Depth:
 Static Water Depth:
 Well Depth:

Boring No: SB-19
 Date Drilled: 06/15/10
 Page 1 of 1

▽ = First Water

▼ = Static Groundwater

Elevation Northing Easting

Boring Completion	Static Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery	Sample Analyzed	Soil Type	LITHOLOGY / DESCRIPTION				
										Backfill			
Neat Cement			33.7	Hand Augered	1								
					2								
					3								
					4								
					5								
							26.9	SB-19 @ 10 2:30	6				
									7				
								SB-19 @ 15 2:30	8			CL	Lean clay; gray with visible green contamination, some gravel.
							9						
								SB-19 @ 20 2:52	10			CL	Same as above.
							55.3	SB-19 @ 15 2:30	11				
									12				
								SB-19 @ 20 2:52	13				
								SB-19 @ 20 2:52	14				
							58.4	SB-19 @ 20 2:52	15			CL	Sandy lean clay; light brown to tan; some green contamination present; very firm; moist.
								SB-19 @ 20 2:52	16				
								SB-19 @ 20 2:52	17				
				SB-19 @ 20 2:52	18								
				SB-19 @ 20 2:52	19			CH	Fat clay with gravel; gray and some orange increased moisture; slight odor.				
									Boring terminated at 20 feet bgs.				
					20								
					21								
					22								

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-1**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery	Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1				Brown lean clay with sand and gravel, moist
					2			CL	
					3				
					4			CH	
					5				Green/gray fat clay
									Total Depth = 5'
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
					22				

See Construction Detail

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-2**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
See Construction Detail					1			CL	Brown/green lean clay with sand and gravel, 20% sand, some gravel, cobbles, moist
					2				
					3				
					4				
								CH	Green/gray clay
					5				Total Depth = 5'
					6				
					7				
					8				
					9				
					10				
					11				
					12				
					13				
					14				
					15				
					16				
					17				
					18				
					19				
					20				
					21				
				22					

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-3**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1		CL	Brown/green lean clay with sand and gravel, strong odor
					2			
					3			
					4		CH	Gray/green clay, strong odor
					5			Total Depth = 5'
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

See Construction Detail

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/10/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-4**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1		CL	Dark brown/greenish lean clay with sand, strong odor
					2			
					3			
					4		CH	Green/brown clay, strong odor
					5			Total Depth = 5'
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

See Construction Detail

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-5**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1		CL	Green/gray/black lean clay with sand, some gravel, wood debris, strong odor
					2			
					3			
					4		CH	Greenish gray clay, strong odor
					5			Total Depth = 5'
					6			
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

See Construction Detail

Delta

Consultants

Project No: C101156 Client: COP
 Logged By: Alan Buehler Location: Oakland
 Driller: Gregg Drilling Date Drilled: 8/9/2010
 Drilling Method: Hand Auger Hole Diameter: 36"
 Sampling Method: Hole Depth: 5'
 Casing Type: 1/4" Tubing Well Diameter: 1/4"
 Slot Size: Well Depth: 5'
 Gravel Pack: #30

Boring/Well No: **SVW-6**
 Page 1 of 2

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					1		CL	Green/gray lean clay with sand, some gravel, some odor, asphalt debris
				2				
				3				
				4				
					5		CH	Green/brown clay, strong odor
					6			Total Depth = 5'
					7			
					8			
					9			
					10			
					11			
					12			
					13			
					14			
					15			
					16			
					17			
					18			
					19			
					20			
					21			
					22			

See Construction Detail

APPENDIX F
Boring Logs for Abandoned Wells



Project No.: 2235 Boring: B1/MW1 Plate: APPENDIX
 Site: Tosco 76 Service Station 11 Date: 7/16/99
 Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: Mark S. DOCKUM
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: [Signature]
 Location: 10 Feet North of Northwestern Corner Registration: R.G. 4412
 of Station Logged by: Dylan Crouse

DEPTH (ft)	BLDN COUNTS	PD/OVM (ppm)	SAMPLE COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
					2 1/2" asphalt	
				CH	Clay, grayish green, very moist, high plasticity	
-5	39	253		SP	Sand, fine-grained, grayish green, moist, no plasticity, black staining	
				CH	Clay, grayish green, very moist, high plasticity	
-10	27	87		ML	Silty sand, fine-grained sand, black, very moist, no plasticity, (65% silt, 35% sand)	
-15	36	222		CL	Clay, with some sand, medium-grained, light olive brown, medium plasticity, wet	
-20	37	22			sandy clay, strong brown, (40% sand, 60% clay)	
-25	33	9			yellow orange, high plasticity, very moist	
					Total depth at 26.5 feet. Groundwater encountered at 23'7".	

Casing Diameter: 2" Slot Size: 0.10" Sand Size: 2/12" Grout: Portland III



Project No.: 2235 Boring: B2/MW2 Plate: APPENDIX

Site: Tosco 76 Service Station Date: 7/16/99

Drill Contractor: Woodward Drilling

Sample Method: Split Spoon

Geologist: MARK S. DOCKUM

Drill Rig: B57

Bore Hole Diameter: 8"

Signature: *Mark S. Dockum*

Location: 2 Feet East of Southernmost Driveway

Registration: R.G. 4412

Along MacArthur Boulevard

Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OVM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5	11	20			CH	4" asphalt Clay, dark greenish gray, mottled redish orange, some coarse-grained sand, slightly damp, high plasticity, (35% sand, 65% clay)	
10	18	0				15% fine gravels up to 0.5", 20% sand, medium-grained, damp	
15	21	130			CL	Silty clay, orange brown, mottled green gray, (35% silt, 65% clay), moist, medium plasticity	
20	29	20				gravelly clay, light yellowish brown, (40% fine gravel, 60% clay), medium plasticity, very moist, black staining	
25	45	18			ML	Sandy clay, trace of silt, yellowish brown, wet, medium plasticity, (35% sand, 15% silt, 50% clay)	
						Total depth at 26.5 feet. Groundwater encountered at 23' 6".	

Casing Diameter: 2" Slot Size: .010 Sand Size: 2/12 Grout: Portland I.II



Project No.: 2235 Boring: B3/MW3 Plate: APPENDIX
 Site: Tosco 76 Service Station Date: 7/16/99
 Drill Contractor: Woodward Drilling

Sample Method: Split Spoon Geologist: MARK S. DOCKUM
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: *[Handwritten Signature]*
 Location: Approximately 15' South West of Southern Registration: R.G. 4412
 most Dispenser Island Parallel to High Street Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	POD/OVM (ppp)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
						4 1/2" asphalt	
						Clay, dark yellowish brown, mottled, trace of medium-grained sand, slightly damp, high plasticity, (15% sand, 85% clay)	
5	18	235			CH	brown, mottled gray, dry	
10	33	265				staining, trace of coarse gravel and rootlets (15% gravel, 85% clay), slightly damp	
15	25	81			CL	Sandy clay, greenish gray, mottled, orange, some medium-grained sand, slight plasticity, caliche present, (35% sand, 65% clay)	
20	36	9			CH	Clay, strong brown, slight mottling, trace of medium-grained sand, 20% sand, high plasticity, black staining, 80% clay	
25	25	0			GW	Gravel, yellowish brown, wet	
					CH	Clay, trace of medium-grained sand, yellowish brown, very moist, high plasticity, (15% sand)	
					GW	Gravel, orange, slight plasticity, wet	
30	22	0			CH	Clay, yellowish brown, moist, high plasticity	
						Total depth at 31.5 feet. Groundwater encountered at 23.3 feet. Static groundwater at 12 feet.	

Casing Diameter: 2" Slot Size: .010" Sand Size: 2/12, Grout: Portland I.II



Project No.: 2235 Boring: B4/MW4 Plate: APPENDIX
 Site: Tosco 76 Service Station 11 Date: 7/16/99
 Drill Contractor: Woodward Drilling
 Sample Method: Split Spoon Geologist: MARK S. DOCKLIM
 Drill Rig: B57 Bore Hole Diameter: 8" Signature: *[Handwritten Signature]*
 Location: 18 Feet North of Southernmost Dispenser Registration: R.G. 4412
Island Parallel High Street Logged by: Dylan Crouse

DEPTH (ft)	BLOW COUNTS	PID/OTM (ppm)	SAMPLE	COLUMN	USCS	GEOLOGIC DESCRIPTION	WELL DESIGN
5	17	309				4 1/2" asphalt	
10	22	253		CH		Clay, greenish gray, mottled, orange slightly damp, high plasticity	
15	19	4				trace of medium-grained sand, slightly moist	
20	28	4				moist	
25	36	0				brownish yellow, black staining, 20% gravel, 20% medium-grained sand, moist	
						brown, mottled, olive yellow, moist, black staining	
						Total depth at 26.5 feet. Groundwater encountered at 23.6 feet.	

Casing Diameter: 2" Slot Size: .010, Sand Size: 2/12, Grout: Portland I.II

APPENDIX G
Certified Laboratory Analytical Reports



Date of Report: 07/09/2010

Jim Barnard

Delta Environmental Consultants, Inc.

11050 White Rock Rd, Suite 110

Rancho Cordova, CA 95670

RE: 1156

BC Work Order: 1008393

Invoice ID: B083168

Enclosed are the results of analyses for samples received by the laboratory on 6/23/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008393 Page 1 of 8

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Regulation / Line Number
DATE: _____
PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: SSW 1156	GLOBAL ID NO.:
ADDRESS: 11060 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 4276 MacArthur Blvd, Oakland, CA		CONOCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (Handcopy or PDF Report to): James Barnard		ECP DELIVERABLE TO (R# or Design): James Barnard (Delta)		PHONE NO.: 916-503-1279
TELEPHONE: (916) 503-1279	FAX: (916) 638-8385	E-MAIL: jbarnard@deltaenv.com	E-MAIL: Terry.L.Grayson@conocoPhillips.com	
SAMPLER NAME(S) (Print): Alan Buehler/Caitlin Morgan		CONSULTANT PROJECT NUMBER: C101156		LAB USE ONLY: 10-08393

REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
****8 Day Turn**

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NEEDED
Hold all samples until further notice
Please CC Alan Buehler (abuehler@deltaenv.com) and Caitlin Morgan (cmorgan@deltaenv.com) on reports

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

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MTRX	NO. CP COVT.	8015M - TPHd	8250B - BTEX 8 Days	8016M - TPHdmg	1664 - TOC	TEMPERATURE ON RECEIPT °C
		DATE	TIME							
1	SB-12-10	6/15/10	9:14	Soil	1	X	X	X		Various Preservatives Not Field Filtered
2	SB-12-10		9:58	Soil	1	X	X	X		Various Preservatives Not Field Filtered
3	SB-12-15		10:25	Soil	1	X	X	X		Various Preservatives Not Field Filtered
4	SB-12-20		10:30	Soil	1	X	X	X		Various Preservatives Not Field Filtered
5	SB-12-20		10:45	Soil	1	X	X	X		Various Preservatives Not Field Filtered
6	SB-12-30		10:47	Soil	1	X	X	X		Various Preservatives Not Field Filtered
7	SB-12-35		10:58	Soil	1	X	X	X		Various Preservatives Not Field Filtered
8	SB-12-41		11:42	Soil	1	X	X	X		Various Preservatives Not Field Filtered
9	SB-12-45		11:45	Soil	1	X	X	X		Various Preservatives Not Field Filtered
10	SB-12-50		11:54	Soil	1	X	X	X		Various Preservatives Not Field Filtered

Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>Ross Dickey</i>	Date: <i>6/16/10</i>	Time: <i>1440</i>
Requested by (Signature): <i>Ross Dickey</i>	Received by (Signature): <i>[Signature]</i>	Date: <i>6-16-10</i>	Time: <i>1825</i>
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: <i>6/16/10</i>	Time: <i>2140</i>

CHK BY: *CLV*

MA
 RA
 JWA
 SUM
 SUB-OUT

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Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008393 Page 2 of 8

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Requisition / Line Number
DATE: _____
PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants		Valid Value ID:	CONCOPHILLIPS SITE NUMBER SS# 1156	GLOBAL ID NO.:
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 4276 MacArthur Blvd, Oakland, CA		CONCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to): James Barnard		EDP DELIVERABLE TO (RFI or Design): James Barnard (Delta)		PHONE NO.: 916-503-1279
TELEPHONE: (916) 503-1279	FAX: (916) 635-8385	E-MAIL: jbarnard@deltaenv.com	E-MAIL: Terry.L.Grayson@conco phillips.com	
SAMPLER NAME(S) (Print): Alan Buehler/Caitlin Morgan		CONSULTANT PROJECT NUMBER: C101156		LAB USE ONLY 10-08393

REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
****8 Day Turn**

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NEEDED
Please CC Alan Buehler (abuehler@deltaenv.com) and Caitlin Morgan (cmorgan@deltaenv.com) on reports

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHd	8250B - BTEX 8 Olys	8015M - TPHmo	1664 - TOC	TEMPERATURE ON RECEIPT C°	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
		DATE	TIME								
11	SB-16-4	6/16/10	12:46	Soil	1	X	X	X			Various Preservatives Not Field Filtered
12	SB-16-10		12:48	Soil	1	X	X	X			Various Preservatives Not Field Filtered
13	SB-16-15		12:55	Soil	1	X	X	X			Various Preservatives Not Field Filtered
14	SB-16-20		1:00	Soil	1	X	X	X			Various Preservatives Not Field Filtered
15	SB-16-25		1:10	Soil	1	X	X	X			Various Preservatives Not Field Filtered
16	SB-16-30		1:10	Soil	1	X	X	X			Various Preservatives Not Field Filtered
17	SB-16-35		1:25	Soil	1	X	X	X			
18	SB-16-40		1:37	Soil	1	X	X	X			
19	SB-16-45		1:46	Soil	1	X	X	X			
20	SB-16-50		1:48	Soil	1	X	X	X			

Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>Ross Dickey</i>	Date: <i>6/16/10</i>	Time: <i>1440</i>
Requested by (Signature): <i>Ross Dickey</i>	Received by (Signature): <i>R. Grayson</i>	Date: <i>6-16-10</i>	Time: <i>1825</i>
Requested by (Signature): <i>R. Grayson</i>	Received by (Signature): <i>[Signature]</i>	Date: <i>6/16/10</i>	Time: <i>2140</i>

2140

01503 Revision

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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008393 Page 4 of 8

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Requisition / Line Number

DATE: _____
PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants		FIELD VALUE ID:	CONOCOPHILLIPS SITE NUMBER: SSW 1156	GLOBAL ID NO.:
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 4276 MacArthur Blvd, Oakland, CA		CONOCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (hardcopy or PDF Report to): James Barnard		EDF DELIVERABLE TO (RF or Designer): James Barnard (Delta)		PHONE NO.: 916-503-1279
TELEPHONE: (916) 503-1279	FAX: (916) 638-6365	E-MAIL: jbarnard@deltanv.com	EMAIL: Terry.L.Grayson@conocoPhillips.com	
SAMPLER NAME(S) (P/N): Alan Buehler/Caitlin Morgan		CONSULTANT PROJECT NUMBER: C101156	LAS USE ONLY 1008393	

REQUESTED ANALYSES

TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
****8 Day Turn**

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NEEDED
Hold all samples until further notice
Please CC Alan Buehler (abuehler@deltanv.com) and Caitlin Morgan (cmorgan@deltanv.com) on reports

* Field Point name only required if different from Sample ID

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

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHg	8260B - BTEX, 8 Oxyg	8015M - TPHmo	1664 - TOG	FFP	TEMPERATURE ON RECEIPT °C
		DATE	TIME								
-31	SB-18-75	6/15/10	3:05	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-32	SB-18-10		3:13	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-343	SB-18-15		3:19	Soil	1	X	X	X	X	X	Various Preservatives Not Field Filtered
-354	SB-18-20		3:26	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-365	SB-19-75		2:30	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-374	SB-19-10		2:30	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-387	SB-19-15		2:42	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-396	SB-19-20		2:52	Soil	1	X	X	X			Various Preservatives Not Field Filtered

Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6/16/10	Time: 1940
Requested by (Signature): <i>R. Wickes</i>	Received by (Signature): <i>[Signature]</i>	Date: 6-16-10	Time: 1825
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6/16/10	Time: 2140

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BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 1 of 4

Submission #: 10-08393

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 Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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: S. Seale Thermometer ID: #117
 Temperature: A 41 °C / C 41 °C
 Date/Time: 10/10/10 2:10 PM Analyst Init: [Signature]

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										
PaA 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 503/605/8080										
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 plastic	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: CAM Date/Time: 10/10/10 10:30
 A = Actual / C = Corrected



BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 2 of 4

Submission #: 10-08393

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 Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO
 Emissivity: 0.98 Container: SS Sleeve Thermometer ID: #177
 Temperature: A 3.0 °C / C 3.1 °C
 Date/Time 6/17/10
 Analyst Init S-250

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										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 413.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/9080										
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 plastic	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: UAm Date/Time: 6/17/10 1030
 A = Actual / C = Corrected



BCLABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 3 of 4

Submission #: 10-08393

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 Containers None Intact? Yes No Intact? Yes No 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: S. Seale #177 Thermometer ID: #102 6/16 Date/Time: 6/16/10 2:10
 Temperature: A 4.1 °C / C 4.2 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	2 ₁	2 ₂	2 ₃	2 ₄	2 ₅	2 ₆	2 ₇	2 ₈	2 ₉	3 ₀
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2ml NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PT 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 508/608/6080										
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 <u>plastic</u>	<u>A</u>									
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: CAH Date/Time: 6/16/10 10:30
 A = Actual | C = Corrected



BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/08 Page 4 of 4

Submission #: 10-08393

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

SHIPPING CONTAINER: Ice Chest Box None Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers 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: 5.5 liter Thermometer ID: #117 Date/Time: 6/16/10 2:10 PM Analyst Init: [Signature]

Temperature: A 4.1 °C / C 41 °C

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	31	32	33	34	35	36	37	38	39	40
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT FE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
1st. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PT 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 508.608/508B										
QT EPA 515.1/515D										
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										
1 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE plastic	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: Sample Numbering Completed By: Alan Date/Time: 6/16/10 10:30 AM (H:\DOCS\WP8\LAB_DOCS\FORMS\SARREC1.WPD) (-3)

A = Actual / C = Corrected

- 37 (SB-19-15) sleeve labeled SB-12-15 @ 10:45... 2 sleeves received with same ID+time. OK to give one BCL#10-08393-37, per Alan. MM 6/17



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1008393-01	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-12-6 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 09:44 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1008393-02	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-12-10 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 09:58 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1008393-03	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-12-15 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 10:25 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1008393-04	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-12-20 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 10:30 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1008393-05	COC Number: ---	Receive Date: 06/23/2010 13:42
	Project Number: 1156	Sampling Date: 06/15/2010 10:45
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-12-26	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-12
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1008393-06	COC Number: ---	Receive Date: 06/23/2010 13:42
	Project Number: 1156	Sampling Date: 06/15/2010 10:47
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-12-30	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-12
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1008393-07	COC Number: ---	Receive Date: 06/23/2010 13:42
	Project Number: 1156	Sampling Date: 06/15/2010 10:58
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-12-35	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-12
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1008393-08	COC Number: ---	Receive Date: 06/23/2010 13:42
	Project Number: 1156	Sampling Date: 06/15/2010 11:42
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-12-41	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-12
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	



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Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1008393-09	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-12-45 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 11:45 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-10	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-12-50 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 11:54 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-11	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-8 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 12:46 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-12	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-10 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 12:49 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Project Number: 4513569998
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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1008393-13	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-15 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 12:55 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-14	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-20 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 13:00 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-15	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-25 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 13:10 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-16	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-30 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 13:10 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1008393-17	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-35 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 13:25 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-18	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-40 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 13:37 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-19	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-46 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 13:46 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-20	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-16-50 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 13:48 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-16 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1008393-21	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-17-5 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 10:25 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-17 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-22	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-17-10 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 10:28 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-17 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-23	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-17-15 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 10:30 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-17 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-24	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-17-20 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/16/2010 10:11 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-17 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1008393-25	COC Number: ---	Receive Date: 06/23/2010 13:42
	Project Number: 1156	Sampling Date: 06/16/2010 10:17
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-17-25	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-17
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1008393-26	COC Number: ---	Receive Date: 06/23/2010 13:42
	Project Number: 1156	Sampling Date: 06/16/2010 10:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-17-30	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-17
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1008393-27	COC Number: ---	Receive Date: 06/23/2010 13:42
	Project Number: 1156	Sampling Date: 06/16/2010 10:24
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-17-35	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-17
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1008393-28	COC Number: ---	Receive Date: 06/23/2010 13:42
	Project Number: 1156	Sampling Date: 06/16/2010 10:44
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-17-40	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-17
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	



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Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1008393-29	COC Number:	---	Receive Date: 06/23/2010 13:42
	Project Number:	1156	Sampling Date: 06/16/2010 11:02
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-17-47	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-17
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1008393-30	COC Number:	---	Receive Date: 06/23/2010 13:42
	Project Number:	1156	Sampling Date: 06/16/2010 11:03
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-17-50	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-17
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1008393-31	COC Number:	---	Receive Date: 06/23/2010 13:42
	Project Number:	1156	Sampling Date: 06/15/2010 15:05
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-18-7.5	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-18
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1008393-32	COC Number:	---	Receive Date: 06/23/2010 13:42
	Project Number:	1156	Sampling Date: 06/15/2010 15:13
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-18-10	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-18
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1008393-33	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-18-15 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 15:19 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-18 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-34	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-18-20 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 15:26 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-18 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-35	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-19-7.5 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 14:30 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-19 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008393-36	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-19-10 Sampled By: DECR	Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 14:30 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-19 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1008393-37	COC Number:	---	Receive Date: 06/23/2010 13:42
	Project Number:	1156	Sampling Date: 06/15/2010 14:42
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-19-15	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-19
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1008393-38	COC Number:	---	Receive Date: 06/23/2010 13:42
	Project Number:	1156	Sampling Date: 06/15/2010 14:52
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-19-20	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-19
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-01	Client Sample Name: 1156, SB-12-6, 6/15/2010 9:44:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.11	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.37	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.44	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	0.11	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	113	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/23/10 20:57	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-01	Client Sample Name: 1156, SB-12-6, 6/15/2010 9:44:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	3.8	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	28	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	93.5	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	112	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/24/10 14:16	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/07/10 11:14	MWB	GC-13	0.970	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-02 **Client Sample Name:** 1156, SB-12-10, 6/15/2010 9:58:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.081	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.43	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.50	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	0.091	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	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	06/23/10	06/23/10 21:22	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-02	Client Sample Name: 1156, SB-12-10, 6/15/2010 9:58:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	5.0	Luft	ND	A10,Z1	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	89.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	97.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/28/10 15:15	JJH	GC-V8	5	BTF1614
2	Luft/FFP	06/24/10	07/07/10 10:51	MWB	GC-13	0.983	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-03	Client Sample Name: 1156, SB-12-15, 6/15/2010 10:25:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.29	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.45	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.58	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	0.062	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	91.3	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	88.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 21:07	ADC	MS-V2	1	BTF1700

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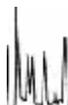
Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-03	Client Sample Name: 1156, SB-12-15, 6/15/2010 10:25:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	1.7	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	100	Luft/FFP	ND	A01	2
TPH - Motor Oil	830	mg/kg	500	Luft/FFP	ND	A01	2
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	2
a,a,a-Trifluorotoluene (FID Surrogate)	92.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/24/10 16:48	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	06/30/10 16:19	MWB	GC-13	49.834	BTF1888



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-04	Client Sample Name: 1156, SB-12-20, 6/15/2010 10:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.052	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.41	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.72	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	0.050	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/23/10 22:14	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-04	Client Sample Name: 1156, SB-12-20, 6/15/2010 10:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	5.0	Luft	ND	A10,Z1	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	11	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	93.6	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	70.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/28/10 16:17	JJH	GC-V8	5	BTF1614
2	Luft/FFP	06/24/10	07/02/10 06:15	MWB	GC-13	0.977	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-05	Client Sample Name: 1156, SB-12-26, 6/15/2010 10:45:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/23/10 22:39	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-05	Client Sample Name: 1156, SB-12-26, 6/15/2010 10:45:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	5.0	Luft	ND	A10,Z1	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	87.8	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	92.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/28/10 17:18	JJH	GC-V8	5	BTF1614
2	Luft/FFP	06/24/10	07/02/10 06:38	MWB	GC-13	0.990	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-06	Client Sample Name: 1156, SB-12-30, 6/15/2010 10:47:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.9	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 21:32	ADC	MS-V2	1	BTF1700

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-06	Client Sample Name: 1156, SB-12-30, 6/15/2010 10:47:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	82.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	95.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/25/10 13:52	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/02/10 07:01	MWB	GC-13	0.947	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-07	Client Sample Name: 1156, SB-12-35, 6/15/2010 10:58:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.0068	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 02:06	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-07	Client Sample Name: 1156, SB-12-35, 6/15/2010 10:58:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	95.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	94.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/25/10 14:23	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/07/10 08:36	MWB	GC-13	0.990	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-08	Client Sample Name: 1156, SB-12-41, 6/15/2010 11:42:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethylbenzene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Total Xylenes	ND	mg/kg	0.050	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	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	06/24/10	06/28/10 11:24	ADC	MS-V2	5	BTF1700

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-08	Client Sample Name: 1156, SB-12-41, 6/15/2010 11:42:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	12	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	92.3	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	107	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/24/10 19:21	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/07/10 08:58	MWB	GC-13	0.984	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-09	Client Sample Name: 1156, SB-12-45, 6/15/2010 11:45:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 22:24	ADC	MS-V2	1	BTF1700

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-09	Client Sample Name: 1156, SB-12-45, 6/15/2010 11:45:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	97.6	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	91.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/24/10 19:51	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/02/10 14:44	MWB	GC-13	0.947	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-10	Client Sample Name: 1156, SB-12-50, 6/15/2010 11:54:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 03:23	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-10	Client Sample Name: 1156, SB-12-50, 6/15/2010 11:54:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	24	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	89.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	96.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/24/10 20:22	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/07/10 03:39	MWB	GC-13	0.997	BTF1888



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-11 **Client Sample Name:** 1156, SB-16-8, 6/16/2010 12:46:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.025	EPA-8260	ND	A10	1
1,2-Dibromoethane	ND	mg/kg	0.025	EPA-8260	ND	A10	1
1,2-Dichloroethane	ND	mg/kg	0.025	EPA-8260	ND	A10	1
Ethylbenzene	ND	mg/kg	0.025	EPA-8260	ND	A10	1
Methyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A10	1
Toluene	ND	mg/kg	0.025	EPA-8260	ND	A10	1
Total Xylenes	ND	mg/kg	0.050	EPA-8260	ND	A10	1
t-Amyl Methyl ether	ND	mg/kg	0.025	EPA-8260	ND	A10	1
t-Butyl alcohol	ND	mg/kg	0.25	EPA-8260	ND	A10	1
Diisopropyl ether	ND	mg/kg	0.025	EPA-8260	ND	A10	1
Ethanol	ND	mg/kg	5.0	EPA-8260	ND	A10	1
Ethyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A10	1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/28/10 11:50	ADC	MS-V2	5	BTF1728

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-11	Client Sample Name: 1156, SB-16-8, 6/16/2010 12:46:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	100	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	87.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/24/10 20:53	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/09/10 00:13	MWB	GC-13	1	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-12	Client Sample Name: 1156, SB-16-10, 6/16/2010 12:49:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	109	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 04:15	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-12	Client Sample Name: 1156, SB-16-10, 6/16/2010 12:49:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	77.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	97.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/28/10 18:20	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/02/10 15:52	MWB	GC-13	0.984	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-13	Client Sample Name: 1156, SB-16-15, 6/16/2010 12:55:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 04:41	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-13	Client Sample Name: 1156, SB-16-15, 6/16/2010 12:55:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	99	Luft/FFP	ND	A01	2
TPH - Motor Oil	ND	mg/kg	500	Luft/FFP	ND	A01	2
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	2
a,a,a-Trifluorotoluene (FID Surrogate)	95.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/24/10 23:25	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	06/30/10 16:42	MWB	GC-13	49.505	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-14	Client Sample Name: 1156, SB-16-20, 6/16/2010 1:00:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.0	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	93.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 05:06	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-14	Client Sample Name: 1156, SB-16-20, 6/16/2010 1:00:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	89.3	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	73.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/24/10 23:56	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/07/10 05:34	MWB	GC-13	1	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-15	Client Sample Name: 1156, SB-16-25, 6/16/2010 1:10:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.0061	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.6	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 23:15	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-15	Client Sample Name: 1156, SB-16-25, 6/16/2010 1:10:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	30	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	96.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	89.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/25/10 00:26	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/07/10 05:57	MWB	GC-13	0.990	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-16	Client Sample Name: 1156, SB-16-30, 6/16/2010 1:10:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.041	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 23:41	ADC	MS-V2	1	BTF1728

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-16	Client Sample Name: 1156, SB-16-30, 6/16/2010 1:10:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	93.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	92.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/25/10 00:57	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/07/10 06:19	MWB	GC-13	0.987	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-17	Client Sample Name: 1156, SB-16-35, 6/16/2010 1:25:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.9	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.6	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.0	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/25/10 00:07	ADC	MS-V2	1	BTF1728

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-17	Client Sample Name: 1156, SB-16-35, 6/16/2010 1:25:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	94.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	93.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/25/10 15:23	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/02/10 18:30	MWB	GC-13	1	BTF1888



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-18	Client Sample Name: 1156, SB-16-40, 6/16/2010 1:37:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.6	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 06:50	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-18	Client Sample Name: 1156, SB-16-40, 6/16/2010 1:37:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	84.8	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/25/10 01:58	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/02/10 18:53	MWB	GC-13	0.970	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-19	Client Sample Name: 1156, SB-16-46, 6/16/2010 1:46:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.6	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 07:16	ADC	MS-V2	1	BTF1631

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-19	Client Sample Name: 1156, SB-16-46, 6/16/2010 1:46:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	86.3	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	99.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/25/10 02:28	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/07/10 06:42	MWB	GC-13	0.960	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-20 **Client Sample Name:** 1156, SB-16-50, 6/16/2010 1:48:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 07:41	ADC	MS-V2	1	BTF1700

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-20	Client Sample Name: 1156, SB-16-50, 6/16/2010 1:48:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	86.8	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	92.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/25/10 02:59	JJH	GC-V8	1	BTF1614
2	Luft/FFP	06/24/10	07/02/10 19:38	MWB	GC-13	0.974	BTF1888



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-21	Client Sample Name: 1156, SB-17-5, 6/16/2010 10:25:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.9	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/23/10 23:25	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-21	Client Sample Name: 1156, SB-17-5, 6/16/2010 10:25:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	530	mg/kg	250	Luft	ND	A01	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.1		2
TPH - Motor Oil	40	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	77.1	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 07:57	JJH	GC-V8	250	BTF1614
2	Luft/FFP	06/24/10	07/07/10 01:44	MWB	GC-13	1	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-22	Client Sample Name: 1156, SB-17-10, 6/16/2010 10:28:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.021	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.0081	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.024	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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	0.17	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/23/10 23:51	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-22	Client Sample Name: 1156, SB-17-10, 6/16/2010 10:28:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	130	mg/kg	25	Luft	ND	A01	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.1		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	82.5	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	107	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 08:27	JJH	GC-V8	25	BTF1614
2	Luft/FFP	06/24/10	07/03/10 09:38	MWB	GC-13	0.990	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-23	Client Sample Name: 1156, SB-17-15, 6/16/2010 10:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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	0.13	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	92.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	106	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 22:29	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-23	Client Sample Name: 1156, SB-17-15, 6/16/2010 10:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.1		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	91.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	97.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/28/10 20:22	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/24/10	07/03/10 09:15	MWB	GC-13	1	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-24	Client Sample Name: 1156, SB-17-20, 6/16/2010 10:11:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.11	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.50	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.011	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.0093	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.058	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	126	%	81 - 117 (LCL - UCL)	EPA-8260		S09	1
4-Bromofluorobenzene (Surrogate)	172	%	74 - 121 (LCL - UCL)	EPA-8260		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 00:17	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-24	Client Sample Name: 1156, SB-17-20, 6/16/2010 10:11:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	9.8	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	20	Luft/FFP	31		2
TPH - Motor Oil	130	mg/kg	100	Luft/FFP	ND		2
Tetracosane (Surrogate)	896	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	110	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/28/10 20:53	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/24/10	07/03/10 08:52	MWB	GC-13	9.934	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-25	Client Sample Name: 1156, SB-17-25, 6/16/2010 10:17:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.031	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	105	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	108	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 03:19	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-25	Client Sample Name: 1156, SB-17-25, 6/16/2010 10:17:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	20	Luft/FFP	30	A01	2
TPH - Motor Oil	ND	mg/kg	100	Luft/FFP	ND	A01	2
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	2
a,a,a-Trifluorotoluene (FID Surrogate)	104	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/28/10 21:24	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/24/10	07/09/10 01:44	MWB	GC-13	9.836	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-26	Client Sample Name: 1156, SB-17-30, 6/16/2010 10:20:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.6	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 03:45	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-26	Client Sample Name: 1156, SB-17-30, 6/16/2010 10:20:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.0		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	93.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	94.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/28/10 21:55	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 06:36	MWB	GC-13	0.974	BTG0252



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Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-27	Client Sample Name: 1156, SB-17-35, 6/16/2010 10:24:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.1	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 04:11	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-27	Client Sample Name: 1156, SB-17-35, 6/16/2010 10:24:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.1		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	89.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	95.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 08:58	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 06:14	MWB	GC-13	0.993	BTG0252



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Project: 1156
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-28	Client Sample Name: 1156, SB-17-40, 6/16/2010 10:44:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.8	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 04:37	JSK	MS-V3	1	BTF1627

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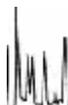
Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-28	Client Sample Name: 1156, SB-17-40, 6/16/2010 10:44:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.0		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	93.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	87.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/28/10 22:56	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 05:51	MWB	GC-13	0.984	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-29	Client Sample Name: 1156, SB-17-47, 6/16/2010 11:02:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.088	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Ethylbenzene	0.49	mg/kg	0.050	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	102	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	114	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	110	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 07:13	JSK	MS-V3	10	BTF1627



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-29	Client Sample Name: 1156, SB-17-47, 6/16/2010 11:02:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	17	mg/kg	5.0	Luft	ND	A01	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.0		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	91.8	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	76.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 10:39	JJH	GC-V8	5	BTF1620
2	Luft/FFP	06/24/10	07/03/10 05:28	MWB	GC-13	0.980	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-30	Client Sample Name: 1156, SB-17-50, 6/16/2010 11:03:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 05:03	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-30	Client Sample Name: 1156, SB-17-50, 6/16/2010 11:03:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.1		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	93.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	96.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/28/10 23:57	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 05:06	MWB	GC-13	0.997	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-31	Client Sample Name: 1156, SB-18-7.5, 6/15/2010 3:05:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	85.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 05:29	JSK	MS-V3	1	BTF1627

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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-31	Client Sample Name: 1156, SB-18-7.5, 6/15/2010 3:05:00PM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	200	Luft/FFP	300	A01	2
TPH - Motor Oil	ND	mg/kg	1000	Luft/FFP	ND	A01	2
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	2
a,a,a-Trifluorotoluene (FID Surrogate)	98.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 00:28	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/09/10 02:30	MWB	GC-13	98.361	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-32	Client Sample Name: 1156, SB-18-10, 6/15/2010 3:13:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Ethylbenzene	0.081	mg/kg	0.050	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.050	EPA-8260	ND	A01	1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.050	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 07:39	JSK	MS-V3	10	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-32	Client Sample Name: 1156, SB-18-10, 6/15/2010 3:13:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	2.6	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.1		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	95.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	115	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 00:58	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 04:20	MWB	GC-13	0.987	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-33	Client Sample Name: 1156, SB-18-15, 6/15/2010 3:19:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	5.0	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Ethylbenzene	51	mg/kg	2.5	EPA-8260	ND	A01	2
Methyl t-butyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Toluene	25	mg/kg	0.25	EPA-8260	ND	A01	1
Total Xylenes	210	mg/kg	5.0	EPA-8260	ND	A01	2
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
Ethyl t-butyl ether	ND	mg/kg	0.25	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	94.9	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	111	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.5	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	95.2	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.0	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/22/10	06/24/10 08:05	JSK	MS-V3	50	BTF1627
2	EPA-8260	06/24/10	06/25/10 14:57	JSK	MS-V3	500	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-33		Client Sample Name: 1156, SB-18-15, 6/15/2010 3:19:00PM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Light Naptha	ND	mg/kg	20	Luft/FFP	ND		1
TPH - Aviation Gas	ND	mg/kg	20	Luft/FFP	ND		1
TPH - Stoddard Solvent	ND	mg/kg	10	Luft/FFP	ND		1
TPH - Heavy Naptha	ND	mg/kg	5.0	Luft/FFP	ND		1
TPH - Gasoline	ND	mg/kg	10	Luft/FFP	ND		1
TPH - Jet Fuel (JP4)	ND	mg/kg	2.0	Luft/FFP	ND		1
TPH - Jet Fuel (JP5)	ND	mg/kg	2.0	Luft/FFP	ND		1
TPH - Jet Fuel (JP8)	ND	mg/kg	2.0	Luft/FFP	ND		1
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		2
TPH - Kerosene	ND	mg/kg	2.0	Luft/FFP	ND		1
TPH - Diesel (FFP)	6.7	mg/kg	2.0	Luft/FFP	3.1		1
TPH - Fuel Oil #6	ND	mg/kg	2.0	Luft/FFP	ND		1
TPH - Crude Oil	ND	mg/kg	10	Luft/FFP	ND		1
TPH - Hydraulic Oil / Motor Oil	ND	mg/kg	10	Luft/FFP	ND		1
TPH - WD-40	ND	mg/kg	2.0	Luft/FFP	ND		1
Tetracosane (Surrogate)	80.9	%	20 - 145 (LCL - UCL)	Luft/FFP			1
a,a,a-Trifluorotoluene (FID Surrogate)	87.5	%	70 - 130 (LCL - UCL)	Luft			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	Luft/FFP	06/24/10	07/03/10	03:57	MWB	GC-13	0.997	BTG0252
2	Luft	06/23/10	06/29/10	03:01	JJH	GC-V8	1	BTF1620

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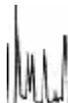
Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

BCL Sample ID: 1008393-33	Client Sample Name: 1156, SB-18-15, 6/15/2010 3:19:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/kg	50	EPA-1664HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664HEM	06/30/10	06/30/10 14:30	JAK	MAN-SV	1	BTG0073



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-34	Client Sample Name: 1156, SB-18-20, 6/15/2010 3:26:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.8	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.2	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/26/10 03:54	JSK	MS-V3	1	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-34	Client Sample Name: 1156, SB-18-20, 6/15/2010 3:26:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	2.9		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	84.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	92.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 03:31	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 03:34	MWB	GC-13	0.944	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-35 **Client Sample Name:** 1156, SB-19-7.5, 6/15/2010 2:30:00PM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethylbenzene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Total Xylenes	ND	mg/kg	0.050	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	95.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/25/10 15:49	JSK	MS-V3	5	BTF1627

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-35	Client Sample Name: 1156, SB-19-7.5, 6/15/2010 2:30:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	1.5	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.0		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	76.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	111	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 04:02	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 02:03	MWB	GC-13	0.954	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-36	Client Sample Name: 1156, SB-19-10, 6/15/2010 2:30:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethylbenzene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Total Xylenes	ND	mg/kg	0.050	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	98.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/25/10 16:15	JSK	MS-V3	5	BTF1746

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-36	Client Sample Name: 1156, SB-19-10, 6/15/2010 2:30:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	1.6	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.0		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	84.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 04:32	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 01:40	MWB	GC-13	0.960	BTG0252



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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-37	Client Sample Name: 1156, SB-19-15, 6/15/2010 2:42:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.017	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 05:55	JSK	MS-V3	1	BTF1746

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-37	Client Sample Name: 1156, SB-19-15, 6/15/2010 2:42:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.1		2
TPH - Motor Oil	39	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	87.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	74.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 05:03	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 01:17	MWB	GC-13	0.990	BTG0252



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008393-38	Client Sample Name: 1156, SB-19-20, 6/15/2010 2:52:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.013	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 06:21	JSK	MS-V3	1	BTF1746

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Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008393-38	Client Sample Name: 1156, SB-19-20, 6/15/2010 2:52:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	3.1		2
TPH - Motor Oil	11	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	80.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	94.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/23/10	06/29/10 05:34	JJH	GC-V8	1	BTF1620
2	Luft/FFP	06/24/10	07/03/10 00:54	MWB	GC-13	0.990	BTG0252



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Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BTF1627

Benzene	BTF1627-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTF1627-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTF1627-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTF1627-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTF1627-BLK1	ND	mg/kg	0.0050		
Toluene	BTF1627-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTF1627-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTF1627-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTF1627-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTF1627-BLK1	ND	mg/kg	0.0050		
Ethanol	BTF1627-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTF1627-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTF1627-BLK1	103	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1627-BLK1	101	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1627-BLK1	103	%	74 - 121 (LCL - UCL)		

QC Batch ID: BTF1631

Benzene	BTF1631-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTF1631-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTF1631-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTF1631-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTF1631-BLK1	ND	mg/kg	0.0050		
Toluene	BTF1631-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTF1631-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTF1631-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTF1631-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTF1631-BLK1	ND	mg/kg	0.0050		
Ethanol	BTF1631-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTF1631-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTF1631-BLK1	96.6	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1631-BLK1	102	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1631-BLK1	95.8	%	74 - 121 (LCL - UCL)		

QC Batch ID: BTF1700

Benzene	BTF1700-BLK1	ND	mg/kg	0.0050		
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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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: BTF1700						
1,2-Dibromoethane	BTF1700-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTF1700-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTF1700-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTF1700-BLK1	ND	mg/kg	0.0050		
Toluene	BTF1700-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTF1700-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTF1700-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTF1700-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTF1700-BLK1	ND	mg/kg	0.0050		
Ethanol	BTF1700-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTF1700-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTF1700-BLK1	95.9	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1700-BLK1	99.0	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1700-BLK1	102	%	74 - 121 (LCL - UCL)		
QC Batch ID: BTF1728						
Benzene	BTF1728-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTF1728-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTF1728-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTF1728-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTF1728-BLK1	ND	mg/kg	0.0050		
Toluene	BTF1728-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTF1728-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTF1728-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTF1728-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTF1728-BLK1	ND	mg/kg	0.0050		
Ethanol	BTF1728-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTF1728-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTF1728-BLK1	99.4	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1728-BLK1	97.2	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1728-BLK1	96.4	%	74 - 121 (LCL - UCL)		
QC Batch ID: BTF1746						
Benzene	BTF1746-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTF1746-BLK1	ND	mg/kg	0.0050		

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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: BTF1746						
1,2-Dichloroethane	BTF1746-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTF1746-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTF1746-BLK1	ND	mg/kg	0.0050		
Toluene	BTF1746-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTF1746-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTF1746-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTF1746-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTF1746-BLK1	ND	mg/kg	0.0050		
Ethanol	BTF1746-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTF1746-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTF1746-BLK1	101	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1746-BLK1	100	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1746-BLK1	106	%	74 - 121 (LCL - UCL)		



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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		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTF1627										
Benzene	BTF1627-BS1	LCS	0.12683	0.12500	mg/kg	101		70 - 130		
Toluene	BTF1627-BS1	LCS	0.12023	0.12500	mg/kg	96.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1627-BS1	LCS	0.051825	0.050000	mg/kg	104		70 - 121		
Toluene-d8 (Surrogate)	BTF1627-BS1	LCS	0.051142	0.050000	mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTF1627-BS1	LCS	0.051436	0.050000	mg/kg	103		74 - 121		
QC Batch ID: BTF1631										
Benzene	BTF1631-BS1	LCS	0.12163	0.12500	mg/kg	97.3		70 - 130		
Toluene	BTF1631-BS1	LCS	0.12472	0.12500	mg/kg	99.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1631-BS1	LCS	0.048892	0.050000	mg/kg	97.8		70 - 121		
Toluene-d8 (Surrogate)	BTF1631-BS1	LCS	0.049563	0.050000	mg/kg	99.1		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTF1631-BS1	LCS	0.049079	0.050000	mg/kg	98.2		74 - 121		
QC Batch ID: BTF1700										
Benzene	BTF1700-BS1	LCS	0.11430	0.12500	mg/kg	91.4		70 - 130		
Toluene	BTF1700-BS1	LCS	0.12357	0.12500	mg/kg	98.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1700-BS1	LCS	0.048627	0.050000	mg/kg	97.3		70 - 121		
Toluene-d8 (Surrogate)	BTF1700-BS1	LCS	0.049186	0.050000	mg/kg	98.4		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTF1700-BS1	LCS	0.051460	0.050000	mg/kg	103		74 - 121		
QC Batch ID: BTF1728										
Benzene	BTF1728-BS1	LCS	0.11364	0.12500	mg/kg	90.9		70 - 130		
Toluene	BTF1728-BS1	LCS	0.12439	0.12500	mg/kg	99.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1728-BS1	LCS	0.048429	0.050000	mg/kg	96.9		70 - 121		
Toluene-d8 (Surrogate)	BTF1728-BS1	LCS	0.049953	0.050000	mg/kg	99.9		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTF1728-BS1	LCS	0.050818	0.050000	mg/kg	102		74 - 121		
QC Batch ID: BTF1746										
Benzene	BTF1746-BS1	LCS	0.11617	0.12500	mg/kg	92.9		70 - 130		
Toluene	BTF1746-BS1	LCS	0.11198	0.12500	mg/kg	89.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1746-BS1	LCS	0.051471	0.050000	mg/kg	103		70 - 121		
Toluene-d8 (Surrogate)	BTF1746-BS1	LCS	0.051127	0.050000	mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTF1746-BS1	LCS	0.049825	0.050000	mg/kg	99.6		74 - 121		



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Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTF1627		Used client sample: N								
Benzene	MS	1007897-25	ND	0.12054	0.12500	mg/kg		96.4		70 - 130
	MSD	1007897-25	ND	0.12615	0.12500	mg/kg	4.5	101	20	70 - 130
Toluene	MS	1007897-25	ND	0.12430	0.12500	mg/kg		99.4		70 - 130
	MSD	1007897-25	ND	0.12045	0.12500	mg/kg	3.1	96.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-25	ND	0.050874	0.050000	mg/kg		102		70 - 121
	MSD	1007897-25	ND	0.051721	0.050000	mg/kg		103		70 - 121
Toluene-d8 (Surrogate)	MS	1007897-25	ND	0.052208	0.050000	mg/kg		104		81 - 117
	MSD	1007897-25	ND	0.050714	0.050000	mg/kg		101		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1007897-25	ND	0.052946	0.050000	mg/kg		106		74 - 121
	MSD	1007897-25	ND	0.052837	0.050000	mg/kg		106		74 - 121
QC Batch ID: BTF1631		Used client sample: N								
Benzene	MS	1007897-50	ND	0.12551	0.12500	mg/kg		100		70 - 130
	MSD	1007897-50	ND	0.12108	0.12500	mg/kg	3.6	96.9	20	70 - 130
Toluene	MS	1007897-50	ND	0.12579	0.12500	mg/kg		101		70 - 130
	MSD	1007897-50	ND	0.12296	0.12500	mg/kg	2.3	98.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-50	ND	0.050346	0.050000	mg/kg		101		70 - 121
	MSD	1007897-50	ND	0.050355	0.050000	mg/kg		101		70 - 121
Toluene-d8 (Surrogate)	MS	1007897-50	ND	0.050507	0.050000	mg/kg		101		81 - 117
	MSD	1007897-50	ND	0.049476	0.050000	mg/kg		99.0		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1007897-50	ND	0.050183	0.050000	mg/kg		100		74 - 121
	MSD	1007897-50	ND	0.053066	0.050000	mg/kg		106		74 - 121
QC Batch ID: BTF1700		Used client sample: N								
Benzene	MS	1007897-51	ND	0.11328	0.12500	mg/kg		90.6		70 - 130
	MSD	1007897-51	ND	0.12125	0.12500	mg/kg	6.8	97.0	20	70 - 130
Toluene	MS	1007897-51	ND	0.12050	0.12500	mg/kg		96.4		70 - 130
	MSD	1007897-51	ND	0.12572	0.12500	mg/kg	4.2	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-51	ND	0.050225	0.050000	mg/kg		100		70 - 121
	MSD	1007897-51	ND	0.048501	0.050000	mg/kg		97.0		70 - 121
Toluene-d8 (Surrogate)	MS	1007897-51	ND	0.050084	0.050000	mg/kg		100		81 - 117
	MSD	1007897-51	ND	0.048397	0.050000	mg/kg		96.8		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1007897-51	ND	0.050333	0.050000	mg/kg		101		74 - 121
	MSD	1007897-51	ND	0.050918	0.050000	mg/kg		102		74 - 121
QC Batch ID: BTF1728		Used client sample: N								
Benzene	MS	1007897-52	ND	0.11301	0.12500	mg/kg		90.4		70 - 130
	MSD	1007897-52	ND	0.11696	0.12500	mg/kg	3.4	93.6	20	70 - 130
Toluene	MS	1007897-52	ND	0.11976	0.12500	mg/kg		95.8		70 - 130
	MSD	1007897-52	ND	0.12579	0.12500	mg/kg	4.9	101	20	70 - 130

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Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BTF1728		Used client sample: N								
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-52	ND	0.051913	0.050000	mg/kg		104		70 - 121
	MSD	1007897-52	ND	0.049408	0.050000	mg/kg		98.8		70 - 121
Toluene-d8 (Surrogate)	MS	1007897-52	ND	0.048833	0.050000	mg/kg		97.7		81 - 117
	MSD	1007897-52	ND	0.048728	0.050000	mg/kg		97.5		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1007897-52	ND	0.052909	0.050000	mg/kg		106		74 - 121
	MSD	1007897-52	ND	0.052174	0.050000	mg/kg		104		74 - 121
QC Batch ID: BTF1746		Used client sample: N								
Benzene	MS	1007897-53	ND	0.11398	0.12500	mg/kg		91.2		70 - 130
	MSD	1007897-53	ND	0.12266	0.12500	mg/kg	7.3	98.1	20	70 - 130
Toluene	MS	1007897-53	ND	0.11222	0.12500	mg/kg		89.8		70 - 130
	MSD	1007897-53	ND	0.11541	0.12500	mg/kg	2.8	92.3	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-53	ND	0.052404	0.050000	mg/kg		105		70 - 121
	MSD	1007897-53	ND	0.054039	0.050000	mg/kg		108		70 - 121
Toluene-d8 (Surrogate)	MS	1007897-53	ND	0.051222	0.050000	mg/kg		102		81 - 117
	MSD	1007897-53	ND	0.051171	0.050000	mg/kg		102		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1007897-53	ND	0.051711	0.050000	mg/kg		103		74 - 121
	MSD	1007897-53	ND	0.052673	0.050000	mg/kg		105		74 - 121



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF1614						
Gasoline Range Organics (C4 - C12)	BTF1614-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF1614-BLK1	95.0	%	70 - 130 (LCL - UCL)		
QC Batch ID: BTF1620						
Gasoline Range Organics (C4 - C12)	BTF1620-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF1620-BLK1	95.5	%	70 - 130 (LCL - UCL)		
QC Batch ID: BTF1888						
TPH - Diesel (FFP)	BTF1888-BLK1	ND	mg/kg	2.0		
TPH - Motor Oil	BTF1888-BLK1	ND	mg/kg	10		
Tetracosane (Surrogate)	BTF1888-BLK1	98.6	%	20 - 145 (LCL - UCL)		
QC Batch ID: BTF2046						
Gasoline Range Organics (C4 - C12)	BTF2046-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF2046-BLK1	93.8	%	70 - 130 (LCL - UCL)		
QC Batch ID: BTG0252						
TPH - Light Naptha	BTG0252-BLK1	ND	mg/kg	20		
TPH - Aviation Gas	BTG0252-BLK1	ND	mg/kg	20		
TPH - Stoddard Solvent	BTG0252-BLK1	ND	mg/kg	10		
TPH - Heavy Naptha	BTG0252-BLK1	ND	mg/kg	5.0		
TPH - Gasoline	BTG0252-BLK1	ND	mg/kg	10		
TPH - Jet Fuel (JP4)	BTG0252-BLK1	ND	mg/kg	2.0		
TPH - Jet Fuel (JP5)	BTG0252-BLK1	ND	mg/kg	2.0		
TPH - Jet Fuel (JP8)	BTG0252-BLK1	ND	mg/kg	2.0		
TPH - Kerosene	BTG0252-BLK1	ND	mg/kg	2.0		
TPH - Diesel (FFP)	BTG0252-BLK1	3.0959	mg/kg	2.0		M01
TPH - Fuel Oil #6	BTG0252-BLK1	ND	mg/kg	2.0		
TPH - Crude Oil	BTG0252-BLK1	ND	mg/kg	10		
TPH - Hydraulic Oil / Motor Oil	BTG0252-BLK1	ND	mg/kg	10		
TPH - WD-40	BTG0252-BLK1	ND	mg/kg	2.0		
TPH - Motor Oil	BTG0252-BLK1	ND	mg/kg	10		
Tetracosane (Surrogate)	BTG0252-BLK1	107	%	20 - 145 (LCL - UCL)		

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTF1614										
Gasoline Range Organics (C4 - C12)	BTF1614-BS1	LCS	4.8021	5.0000	mg/kg	96.0		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF1614-BS1	LCS	0.038100	0.040000	mg/kg	95.2		70 - 130		
QC Batch ID: BTF1620										
Gasoline Range Organics (C4 - C12)	BTF1620-BS1	LCS	4.8308	5.0000	mg/kg	96.6		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF1620-BS1	LCS	0.037900	0.040000	mg/kg	94.8		70 - 130		
QC Batch ID: BTF1888										
TPH - Diesel (FFP)	BTF1888-BS1	LCS	12.535	16.393	mg/kg	76.5		50 - 136		
Tetracosane (Surrogate)	BTF1888-BS1	LCS	0.61851	0.65574	mg/kg	94.3		20 - 145		
QC Batch ID: BTF2046										
Gasoline Range Organics (C4 - C12)	BTF2046-BS1	LCS	4.5478	5.0000	mg/kg	91.0		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF2046-BS1	LCS	0.038100	0.040000	mg/kg	95.2		70 - 130		
QC Batch ID: BTG0252										
TPH - Diesel (FFP)	BTG0252-BS1	LCS	12.421	16.393	mg/kg	75.8		50 - 136		
Tetracosane (Surrogate)	BTG0252-BS1	LCS	0.60747	0.65574	mg/kg	92.6		20 - 145		



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTF1614		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1007897-15	ND	4.8176	5.0000	mg/kg		96.4		70 - 130
	MSD	1007897-15	ND	4.7710	5.0000	mg/kg	1.0	95.4	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-15	ND	0.038200	0.040000	mg/kg		95.5		70 - 130
	MSD	1007897-15	ND	0.038200	0.040000	mg/kg		95.5		70 - 130
QC Batch ID: BTF1620		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1007897-16	ND	4.6539	5.0000	mg/kg		93.1		70 - 130
	MSD	1007897-16	ND	4.9525	5.0000	mg/kg	6.2	99.0	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-16	ND	0.038300	0.040000	mg/kg		95.8		70 - 130
	MSD	1007897-16	ND	0.037600	0.040000	mg/kg		94.0		70 - 130
QC Batch ID: BTF1888		Used client sample: Y - Description: SB-16-46, 06/16/2010 13:46								
TPH - Diesel (FFP)	MS	1008393-19	ND	11.877	16.393	mg/kg		72.5		40 - 137
	MSD	1008393-19	ND	13.112	16.556	mg/kg	8.9	79.2	30	40 - 137
Tetracosane (Surrogate)	MS	1008393-19	ND	0.66967	0.65574	mg/kg		102		20 - 145
	MSD	1008393-19	ND	0.69427	0.66225	mg/kg		105		20 - 145
QC Batch ID: BTF2046		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1007897-50	ND	4.6767	5.0000	mg/kg		93.5		70 - 130
	MSD	1007897-50	ND	4.2845	5.0000	mg/kg	8.8	85.7	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-50	ND	0.038700	0.040000	mg/kg		96.8		70 - 130
	MSD	1007897-50	ND	0.038800	0.040000	mg/kg		97.0		70 - 130
QC Batch ID: BTG0252		Used client sample: Y - Description: SB-17-50, 06/16/2010 11:03								
TPH - Diesel (FFP)	MS	1008393-30	ND	11.248	16.556	mg/kg		67.9		40 - 137
	MSD	1008393-30	ND	11.488	16.611	mg/kg	1.8	69.2	30	40 - 137
Tetracosane (Surrogate)	MS	1008393-30	ND	0.65280	0.66225	mg/kg		98.6		20 - 145
	MSD	1008393-30	ND	0.64390	0.66445	mg/kg		96.9		20 - 145

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Delta Environmental Consultants, Inc.
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Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0073						
Oil and Grease	BTG0073-BLK1	ND	mg/kg	50		



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTG0073										
Oil and Grease	BTG0073-BS1	LCS	592.00	743.00	mg/kg	79.7		59 - 117		



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BTG0073											
Used client sample: Y - Description: SB-18-15, 06/15/2010 15:19											
Oil and Grease	DUP	1008393-33	14.000	ND		mg/kg			30		
	MS	1008393-33	14.000	559.00	743.00	mg/kg		73.4		56 - 111	
	MSD	1008393-33	14.000	572.00	743.00	mg/kg	2.4	75.1	30	56 - 111	



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/09/2010 14:13
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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.
- A10 PQL's and MDL's were raised due to matrix interference.
- A17 Surrogate not reportable due to sample dilution.
- M01 Analyte detected in the Method Blank at or above the PQL.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- Z1 RAN SAMPLE SEVERAL TIMES NEEDED DILUTION DUE TO NEEDLE PLUGGING



Date of Report: 07/07/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 1156
BC Work Order: 1008640
Invoice ID: B082948

Enclosed are the results of analyses for samples received by the laboratory on 6/21/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008640 Page 1 of 6

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Requisition / Line Number
DATE: **6/17/10**
PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants		Value/Value ID:	CONOCOPHILLIPS SITE NUMBER SS# 1156	GLOBAL ID NO.:
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 4276 MacArthur Blvd, Oakland, CA		CONOCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to): James Barnard		EDF DELIVERABLE TO (RP or Designee): James Barnard (Delta)		PHONE NO.: 916-603-1279
TELEPHONE: (916) 503-1279	FAX: (916) 638-8385	E-MAIL: jbarnd@deltanv.com	E-MAIL: Terry L. Grayson@conoco phillips.com	LAB USE ONLY 1008640
SAMPLER NAME(S) (P/N/S): Alan Buehler/Caitlin Morgan		CONSULTANT PROJECT NUMBER C101156		

TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
****8 Day Turn**

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NEEDED
Please CC Alan Buehler (abuehler@deltanv.com) and Caitlin Morgan (cmorgan@deltanv.com) on reports

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHg, TPHd	8200B - BTEX, & Oxyg	8015M - TPHmo	1654 - TOG	REQUESTED ANALYSES										FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes		
		DATE	TIME																			
-1	SB-14-8 ²	6/17	11:50	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-2	SB-14-10	6/17	11:50	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-3	SB-14-15	6/17	11:54	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-4	SB-14-20	6/17	12:01	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-5	SB-14-25 ^{260'}	6/17	12:07	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-6	SB-14-30	6/17	12:07	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-7	SB-14-35	6/17	12:16	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-8	SB-14-40	6/17	12:29	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-9	SB-14-45	6/17	12:29	Soil	1	X	X	X														Various Preservatives Not Field Filtered
-10	SB-14-50	6/17	12:28	Soil	1	X	X	X														Various Preservatives Not Field Filtered

CHK BY: **CM**
 JKS
 SRS
 MVA
 PH
 SUB-OUT

Requested by (Signature): Alan Buehler 6/21/10	Received by (Signature): Kasso Decker 6/21/10	Date: 6/21/10	Time: 1305
Requested by (Signature): Kasso Decker 6/21/10	Received by (Signature): R. Grayson	Date: 6-21-10	Time: 1830
Requested by (Signature): R. Grayson 6-21-10 2200	Received by (Signature):	Date: 6/21/10	Time: 2200

01503 Revision

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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008640 Page 2 of 6

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Requisition / Line Number
DATE: 6/18/10
PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants		CONOCOPHILLIPS SITE NUMBER: SS# 1155	GLOBAL ID NO.:
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 4276 MacArthur Blvd, Oakland, CA	CONOCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (Hardcopy or PDF Report to): James Barnard		COF DELIVERABLE TO (PP or Designee): James Barnard (Delta)	PHONE NO.: 916-503-1279
TELEPHONE: (916) 503-1279	FAX: (916) 638-8385	E-MAIL: j.barnard@deltaenv.com	E-MAIL: Terry.L.Grayson@conocoPhillips.com
SAMPLER NAME(S) (P/N): Alan Buehler/Caitlin Morgan		CONSULTANT PROJECT NUMBER: C101155	LAB USE ONLY 1008640

TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
****8 Day Turn**

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NEEDED
Please CC Alan Buehler (abuehler@deltaenv.com) and Caitlin Morgan (cmorgan@deltaenv.com) on reports

* Field Point name only required if different from Sample ID

8015M - TPHd
820B - BTEX, 8 Oxy
8015M - TPHmo
1654 - TOG
FFP

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

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHd	820B - BTEX, 8 Oxy	8015M - TPHmo	1654 - TOG	FFP	TEMPERATURE ON RECEIPT OF
		DATE	TIME								
	SB-13-6	6/18/10	8:45	Soil	1	X	X	X	X	X	Various Preservatives Not Field Filtered
	SB-3-10			Soil	1	X	X	X			Various Preservatives Not Field Filtered
	SB-13-15			Soil	1	X	X	X			Various Preservatives Not Field Filtered
	SB-13-20			Soil	1	X	X	X			Various Preservatives Not Field Filtered
	SB-13-25			Soil	1	X	X	X			Various Preservatives Not Field Filtered
	SB-13-30			Soil	1	X	X	X			Various Preservatives Not Field Filtered
	SB-13-35			Soil	1	X	X	X			Various Preservatives Not Field Filtered
	SB-13-40			Soil	1	X	X	X			Various Preservatives Not Field Filtered
	SB-13-45			Soil	1	X	X	X			Various Preservatives Not Field Filtered
	SB-13-50			Soil	1	X	X	X			Various Preservatives Not Field Filtered

Received by (Signature): <i>[Signature]</i>	Date: <u>6/21/10</u>	Time: <u>1305</u>
Received by (Signature): <i>[Signature]</i>	Date: <u>6-21-10</u>	Time: <u>1830</u>
Received by (Signature): <i>[Signature]</i>	Date: <u>6/21/10</u>	Time: <u>2200</u>

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[Handwritten signature]

Chain of Custody and Cooler Receipt Form for 1008640 Page 3 of 6

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Requisition / Line Number
DATE: **6/17/10**
PAGE: _____ of _____

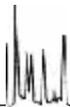
SAMPLING COMPANY: Delta Consultants		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER SS# 1155	GLOBAL ID NO.1
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 4275 MacArthur Blvd, Oakland, CA		CONOCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (Handcopy or PDF Report to): James Barnard		EDF DELIVERABLE TO (REP or Designer): James Barnard (Delta)		PHONE NO.: 916-603-1279
TELEPHONE: (916) 503-1279	FAX: (916) 638-6385	E-MAIL: jbarnard@deltaenv.com	E-MAIL: Terry.L.Grayson@conoco phillips.com	LAB USE ONLY 1008640
SAMPLER NAME(S) (NAME): Alan Buehler/Caitlin Morgan		CONSULTANT PROJECT NUMBER: C101158		

REQUESTED ANALYSES

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHg, TPHd	8260B - BTEX, 8 OxyS	8015M - TPHmo	1864 - TOG	TEMPERATURE ON RECEIPT C°	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
		DATE	TIME								
-12	SB-15-5	6/17	2:00	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-13	SB-15-10	6/17	2:00	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-14	SB-15-15	6/17	2:04	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-15	SB-15-20.5	6/17	2:10	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-16	SB-15-26.5	6/17	2:18	Soil	1	X	X	X			Various Preservatives Not Field Filtered
-17	SB-15-30	6/17	2:18	Soil	1	X	X	X			
-18	SB-15-35	6/17	2:2A	Soil	1	X	X	X			
-19	SB-15-40	6/17	2:40	Soil	1	X	X	X			
-20	SB-15-45	6/17	2:45	Soil	1	X	X	X			
-21	SB-15-50	6/17	2:50	Soil	1	X	X	X			

Released by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6/21/10	Time: 1305
Requisitioned by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6-21-10	Time: 1830
Released by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6/21/10	Time: 2200

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BC LABORATORIES INC. **SAMPLE RECEIPT FORM** Rev. No. 12 06/24/08 Page 1 of 3

Submission #: 1008640

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 Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO
 Emissivity: 0.98 Container: Soil Thermometer ID: 103 Date/Time 6-21-10 2:11
 Temperature: A 4.1 °C / C 4.3 °C 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										
PIA 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 508/608/808										
QT EPA 515.1/815										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 551.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE	A	A	A	A	A	A	A	A		A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JNW Date/Time: 6-23-10
 A = Actual / C = Corrected

[H:\DOCS\SWP\LAB_DOCS\FORMS\ISARREC2.WPD]



BC LABORATORIES INC. SAMPLE RECEIPT FORM Rev. No. 12 06/24/06 Page 2 Of 3

Submission #: 1008640

SHIPPING INFORMATION: Federal Express UPS Hand Delivery BCLab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest Box None Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

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

COC Received YES NO

Emissivity: 0.98 Container: SOIL Thermometer ID: 1103 Date/Time: 10-21-10 2211

Temperature: A 4.1 °C / C 4.3 °C Analyst Init: JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
DT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2cc 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 ODOB										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808										
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	A	A	A	A	A	A	A	A		
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____ Date/Time: 10-23-10

Sample Numbering Completed By: JNW

A = Actual / C = Corrected

[H:\DOCS\INPE\LAB_DOC5\FDRM\SAMREC2.WPD]



BC LABORATORIES INC. SAMPLE RECEIPT Form Rev. No. 12 06/24/08 Page 3 of 3

Submission #: 1008640

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 Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO
 Emissivity: 0.98 Container: SOIL Sleeve Thermometer ID: 1103 Date/Time 10-21-10 2:21
 Temperature: A 3.9 °C / C 4.1 °C Analyst Init JKW

SAMPLE CONTAINERS	SAMPLE NUMBERS								
	1	2	3	4	5	6	7	8	9
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									
PT PHENOLICS									
40ml VOA VIAL TRAVEL BLANK									
40ml VOA VIAL									
QT EPA 413.1, 413.2, 413.1									
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 545									
QT EPA 549									
QT EPA 632									
QT EPA 8015M									
QT AMBER									
8 OZ. JAR									
32 OZ. JAR									
SOIL SLEEVE							A	A	A
PCB VIAL									
PLASTIC BAG									
FERRUGS IRON									
ENCORE									

Comments: _____
 Sample Numbering Completed By: JKW Date/Time: 10-23-10 1310
 A = Actual / C = Corrected [H:\DOCS\WPB\LAB_DOCS\FORMS\SAMREC2.WPD]



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1008640-01	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-14-8 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 11:50 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1008640-02	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-14-10 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 11:50 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1008640-03	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-14-15 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 11:54 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1008640-04	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-14-20 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 12:01 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1008640-05	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-14-26 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 12:07 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008640-06	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-14-30 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 12:07 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008640-07	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-14-35 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 12:16 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1008640-08	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-14-40 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 12:22 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1008640-09	COC Number:	---	Receive Date: 06/21/2010 22:00
	Project Number:	1156	Sampling Date: 06/17/2010 12:28
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-14-45	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-14
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1008640-10	COC Number:	---	Receive Date: 06/21/2010 22:00
	Project Number:	1156	Sampling Date: 06/17/2010 12:28
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-14-50	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-14
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1008640-11	COC Number:	---	Receive Date: 06/21/2010 22:00
	Project Number:	1156	Sampling Date: 06/18/2010 08:45
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-13-6	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-13
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:
1008640-12	COC Number:	---	Receive Date: 06/21/2010 22:00
	Project Number:	1156	Sampling Date: 06/17/2010 02:01
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-15-5	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-15
			Matrix: SO
			Sample QC Type (SACode): CS
			Cooler ID:

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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1008640-13	COC Number: ---	Receive Date: 06/21/2010 22:00
	Project Number: 1156	Sampling Date: 06/17/2010 02:01
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-15-10	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-15
		Matrix: SO
		Sample QC Type (SACode): CS
		Cooler ID:

1008640-14	COC Number: ---	Receive Date: 06/21/2010 22:00
	Project Number: 1156	Sampling Date: 06/17/2010 02:04
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-15-15	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-15
		Matrix: SO
		Sample QC Type (SACode): CS
		Cooler ID:

1008640-15	COC Number: ---	Receive Date: 06/21/2010 22:00
	Project Number: 1156	Sampling Date: 06/17/2010 02:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-15-21.5	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-15
		Matrix: SO
		Sample QC Type (SACode): CS
		Cooler ID:

1008640-16	COC Number: ---	Receive Date: 06/21/2010 22:00
	Project Number: 1156	Sampling Date: 06/17/2010 02:18
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-15-26.5	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-15
		Matrix: SO
		Sample QC Type (SACode): CS
		Cooler ID:



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1008640-17	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-15-30 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 02:18 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-15 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1008640-18	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-15-35 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 02:24 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-15 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1008640-19	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: SB-15-40 Sampled By: DECR	Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 02:40 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): SB-15 Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-01	Client Sample Name: 1156, SB-14-8, 6/17/2010 11:50:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.073	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	1.7	mg/kg	0.25	EPA-8260	ND	A01	2
Methyl t-butyl ether	0.0088	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.26	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	8.0	mg/kg	0.50	EPA-8260	ND	A01	2
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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	97.9	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	147	%	81 - 117 (LCL - UCL)	EPA-8260		S09	1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	106	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 08:53	ADC	MS-V2	1	BTF1700
2	EPA-8260	06/24/10	06/25/10 00:32	ADC	MS-V2	50	BTF1700

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-01	Client Sample Name: 1156, SB-14-8, 6/17/2010 11:50:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	9.9	mg/kg	5.0	Luft	ND	A01	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	91.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	112	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/30/10 17:35	JJH	GC-V8	5	BTF2046
2	Luft/FFP	06/28/10	06/29/10 12:11	MWB	GC-13	0.990	BTF1981



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-02	Client Sample Name: 1156, SB-14-10, 6/17/2010 11:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.28	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	1.7	mg/kg	0.25	EPA-8260	ND	A01	2
Methyl t-butyl ether	0.033	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.21	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	7.9	mg/kg	0.50	EPA-8260	ND	A01	2
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	0.093	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	102	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	108	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.9	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	99.2	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 09:19	ADC	MS-V2	1	BTF1700
2	EPA-8260	06/24/10	06/25/10 06:34	ADC	MS-V2	50	BTF1700



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-02	Client Sample Name: 1156, SB-14-10, 6/17/2010 11:50:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	35	mg/kg	10	Luft	ND	A01	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	83.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	109	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	07/01/10 20:55	JJH	GC-V8	10	BTF2046
2	Luft/FFP	06/28/10	06/29/10 12:34	MWB	GC-13	0.960	BTF1981



Delta Environmental Consultants, Inc.
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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-03	Client Sample Name: 1156, SB-14-15, 6/17/2010 11:54:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.097	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.031	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.031	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.051	mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	0.081	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 09:45	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-03	Client Sample Name: 1156, SB-14-15, 6/17/2010 11:54:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	10	Luft/FFP	ND	A01	2
TPH - Motor Oil	100	mg/kg	50	Luft/FFP	ND	A01	2
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	2
a,a,a-Trifluorotoluene (FID Surrogate)	88.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/29/10 15:48	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/30/10 15:11	MWB	GC-13	4.983	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-04	Client Sample Name: 1156, SB-14-20, 6/17/2010 12:01:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.0064	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.050	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.0099	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.24	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.8	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 10:11	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-04	Client Sample Name: 1156, SB-14-20, 6/17/2010 12:01:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	17	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	89.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	95.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/29/10 16:50	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 13:19	MWB	GC-13	0.990	BTF1981



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Project: 1156
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-05	Client Sample Name: 1156, SB-14-26, 6/17/2010 12:07:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.0076	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.085	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.012	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.36	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	90.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.1	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.2	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 10:37	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-05	Client Sample Name: 1156, SB-14-26, 6/17/2010 12:07:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	31	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	87.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	96.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/29/10 17:51	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 13:42	MWB	GC-13	1.003	BTF1981



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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-06	Client Sample Name: 1156, SB-14-30, 6/17/2010 12:07:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.1	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.8	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/25/10 06:07	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-06	Client Sample Name: 1156, SB-14-30, 6/17/2010 12:07:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	83.3	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	96.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/29/10 18:52	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 14:07	MWB	GC-13	1.007	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-07	Client Sample Name: 1156, SB-14-35, 6/17/2010 12:16:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 11:28	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-07	Client Sample Name: 1156, SB-14-35, 6/17/2010 12:16:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	84.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	96.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/29/10 19:54	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 15:37	MWB	GC-13	0.987	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-08	Client Sample Name: 1156, SB-14-40, 6/17/2010 12:22:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.014	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.079	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	92.6	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	95.8	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 11:54	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-08	Client Sample Name: 1156, SB-14-40, 6/17/2010 12:22:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	19	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	86.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	90.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/29/10 20:55	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 16:00	MWB	GC-13	0.980	BTF1981

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-09	Client Sample Name: 1156, SB-14-45, 6/17/2010 12:28:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.018	mg/kg	0.010	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.010	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.010	EPA-8260	ND	A01	1
Ethylbenzene	0.27	mg/kg	0.010	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.010	EPA-8260	ND	A01	1
Toluene	0.012	mg/kg	0.010	EPA-8260	ND	A01	1
Total Xylenes	1.0	mg/kg	0.020	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.010	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	0.10	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.010	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	2.0	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.010	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	94.9	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.8	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/25/10 16:41	JSK	MS-V3	2	BTF1746

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-09	Client Sample Name: 1156, SB-14-45, 6/17/2010 12:28:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	6.8	mg/kg	5.0	Luft	ND	A01	1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	20	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	86.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/30/10 18:05	JJH	GC-V8	5	BTF2046
2	Luft/FFP	06/28/10	06/29/10 16:22	MWB	GC-13	0.966	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-10	Client Sample Name: 1156, SB-14-50, 6/17/2010 12:28:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 11:07	JSK	MS-V3	1	BTF1746

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-10	Client Sample Name: 1156, SB-14-50, 6/17/2010 12:28:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	92.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	77.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/30/10 16:03	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 16:45	MWB	GC-13	0.990	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-11	Client Sample Name: 1156, SB-13-6, 6/18/2010 8:45:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethylbenzene	4.4	mg/kg	2.5	EPA-8260	ND	A01	2
Methyl t-butyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Total Xylenes	ND	mg/kg	1.0	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	100	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	111	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.7	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	114	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	108	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	07/02/10 09:02	ADC	MS-V2	100	BTF1700
2	EPA-8260	06/24/10	06/28/10 10:59	ADC	MS-V2	500	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-11		Client Sample Name: 1156, SB-13-6, 6/18/2010 8:45:00AM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
TPH - Light Naptha	ND	mg/kg	200	Luft/FFP	ND	A01	1
TPH - Aviation Gas	ND	mg/kg	200	Luft/FFP	ND	A01	1
TPH - Stoddard Solvent	ND	mg/kg	100	Luft/FFP	ND	A01	1
TPH - Heavy Naptha	ND	mg/kg	50	Luft/FFP	ND	A01	1
TPH - Gasoline	ND	mg/kg	100	Luft/FFP	ND	A01	1
TPH - Jet Fuel (JP4)	ND	mg/kg	20	Luft/FFP	ND	A01	1
TPH - Jet Fuel (JP5)	ND	mg/kg	20	Luft/FFP	ND	A01	1
TPH - Jet Fuel (JP8)	ND	mg/kg	20	Luft/FFP	ND	A01	1
Gasoline Range Organics (C4 - C12)	680	mg/kg	100	Luft	ND	A01	2
TPH - Kerosene	ND	mg/kg	20	Luft/FFP	ND	A01	1
TPH - Diesel (FFP)	76	mg/kg	20	Luft/FFP	ND	A01	1
TPH - Fuel Oil #6	ND	mg/kg	20	Luft/FFP	ND	A01	1
TPH - Crude Oil	ND	mg/kg	100	Luft/FFP	ND	A01	1
TPH - Hydraulic Oil / Motor Oil	ND	mg/kg	100	Luft/FFP	ND	A01	1
TPH - WD-40	ND	mg/kg	20	Luft/FFP	ND	A01	1
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	1
a,a,a-Trifluorotoluene (FID Surrogate)	98.0	%	70 - 130 (LCL - UCL)	Luft			2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	Luft/FFP	06/28/10	07/02/10	05:30	MWB	GC-13	10.169	BTF1981
2	Luft	06/28/10	06/30/10	10:38	JJH	GC-V8	100	BTF2046

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

BCL Sample ID: 1008640-11	Client Sample Name: 1156, SB-13-6, 6/18/2010 8:45:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	140	mg/kg	100	EPA-1664HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664HEM	06/30/10	06/30/10 14:30	JAK	MAN-SV	2	BTG0073



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-12	Client Sample Name: 1156, SB-15-5, 6/17/2010 2:01:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 11:33	JSK	MS-V3	1	BTF1746

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-12	Client Sample Name: 1156, SB-15-5, 6/17/2010 2:01:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	81.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	93.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/30/10 01:01	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 17:30	MWB	GC-13	1.007	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-13	Client Sample Name: 1156, SB-15-10, 6/17/2010 2:01:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 11:59	JSK	MS-V3	1	BTF1746

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-13	Client Sample Name: 1156, SB-15-10, 6/17/2010 2:01:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	82.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	97.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/30/10 02:03	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 17:52	MWB	GC-13	0.993	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-14	Client Sample Name: 1156, SB-15-15, 6/17/2010 2:04:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.010	EPA-8260	ND	A10	1
1,2-Dibromoethane	ND	mg/kg	0.010	EPA-8260	ND	A10	1
1,2-Dichloroethane	ND	mg/kg	0.010	EPA-8260	ND	A10	1
Ethylbenzene	ND	mg/kg	0.010	EPA-8260	ND	A10	1
Methyl t-butyl ether	ND	mg/kg	0.010	EPA-8260	ND	A10	1
Toluene	ND	mg/kg	0.010	EPA-8260	ND	A10	1
Total Xylenes	ND	mg/kg	0.020	EPA-8260	ND	A10	1
t-Amyl Methyl ether	ND	mg/kg	0.010	EPA-8260	ND	A10	1
t-Butyl alcohol	ND	mg/kg	0.10	EPA-8260	ND	A10	1
Diisopropyl ether	ND	mg/kg	0.010	EPA-8260	ND	A10	1
Ethanol	ND	mg/kg	2.0	EPA-8260	ND	A10	1
Ethyl t-butyl ether	ND	mg/kg	0.010	EPA-8260	ND	A10	1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/25/10 17:07	JSK	MS-V3	2	BTF1746

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-14	Client Sample Name: 1156, SB-15-15, 6/17/2010 2:04:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	75.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	92.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/30/10 03:04	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 18:15	MWB	GC-13	1.007	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-15	Client Sample Name: 1156, SB-15-21.5, 6/17/2010 2:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 18:07	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-15	Client Sample Name: 1156, SB-15-21.5, 6/17/2010 2:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	84.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/30/10 04:05	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/29/10 18:37	MWB	GC-13	1.003	BTF1981

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-16	Client Sample Name: 1156, SB-15-26.5, 6/17/2010 2:18:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.6	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	97.4	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 18:33	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-16	Client Sample Name: 1156, SB-15-26.5, 6/17/2010 2:18:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	74.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	92.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/30/10	06/30/10 16:33	JJH	GC-V8	1	BTG0015
2	Luft/FFP	06/28/10	06/29/10 19:00	MWB	GC-13	0.987	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-17	Client Sample Name: 1156, SB-15-30, 6/17/2010 2:18:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.0	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.2	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 18:58	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-17	Client Sample Name: 1156, SB-15-30, 6/17/2010 2:18:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	98.5	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	93.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/29/10	06/30/10 06:07	JJH	GC-V8	1	BTG0015
2	Luft/FFP	06/28/10	06/29/10 20:53	MWB	GC-13	1.017	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-18	Client Sample Name: 1156, SB-15-35, 6/17/2010 2:24:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.0	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 19:24	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-18	Client Sample Name: 1156, SB-15-35, 6/17/2010 2:24:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	84.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	91.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/29/10	06/30/10 07:08	JJH	GC-V8	1	BTG0015
2	Luft/FFP	06/28/10	06/29/10 21:15	MWB	GC-13	1.003	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008640-19	Client Sample Name: 1156, SB-15-40, 6/17/2010 2:40:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/24/10 19:50	ADC	MS-V2	1	BTF1700

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008640-19	Client Sample Name: 1156, SB-15-40, 6/17/2010 2:40:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	97.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	91.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/29/10	06/30/10 08:09	JJH	GC-V8	1	BTG0015
2	Luft/FFP	06/28/10	06/29/10 21:38	MWB	GC-13	1	BTF1981



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BTF1700

Benzene	BTF1700-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTF1700-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTF1700-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTF1700-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTF1700-BLK1	ND	mg/kg	0.0050		
Toluene	BTF1700-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTF1700-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTF1700-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTF1700-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTF1700-BLK1	ND	mg/kg	0.0050		
Ethanol	BTF1700-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTF1700-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTF1700-BLK1	95.9	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1700-BLK1	99.0	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1700-BLK1	102	%	74 - 121 (LCL - UCL)		

QC Batch ID: BTF1746

Benzene	BTF1746-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTF1746-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTF1746-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTF1746-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTF1746-BLK1	ND	mg/kg	0.0050		
Toluene	BTF1746-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTF1746-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTF1746-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTF1746-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTF1746-BLK1	ND	mg/kg	0.0050		
Ethanol	BTF1746-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTF1746-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTF1746-BLK1	101	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1746-BLK1	100	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1746-BLK1	106	%	74 - 121 (LCL - UCL)		

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTF1700										
Benzene	BTF1700-BS1	LCS	0.11430	0.12500	mg/kg	91.4		70 - 130		
Toluene	BTF1700-BS1	LCS	0.12357	0.12500	mg/kg	98.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1700-BS1	LCS	0.048627	0.050000	mg/kg	97.3		70 - 121		
Toluene-d8 (Surrogate)	BTF1700-BS1	LCS	0.049186	0.050000	mg/kg	98.4		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTF1700-BS1	LCS	0.051460	0.050000	mg/kg	103		74 - 121		
QC Batch ID: BTF1746										
Benzene	BTF1746-BS1	LCS	0.11617	0.12500	mg/kg	92.9		70 - 130		
Toluene	BTF1746-BS1	LCS	0.11198	0.12500	mg/kg	89.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1746-BS1	LCS	0.051471	0.050000	mg/kg	103		70 - 121		
Toluene-d8 (Surrogate)	BTF1746-BS1	LCS	0.051127	0.050000	mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTF1746-BS1	LCS	0.049825	0.050000	mg/kg	99.6		74 - 121		



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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		Lab Qualls
									RPD	Percent Recovery	
QC Batch ID: BTF1700		Used client sample: N									
Benzene	MS	1007897-51	ND	0.11328	0.12500	mg/kg		90.6		70 - 130	
	MSD	1007897-51	ND	0.12125	0.12500	mg/kg	6.8	97.0	20	70 - 130	
Toluene	MS	1007897-51	ND	0.12050	0.12500	mg/kg		96.4		70 - 130	
	MSD	1007897-51	ND	0.12572	0.12500	mg/kg	4.2	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-51	ND	0.050225	0.050000	mg/kg		100		70 - 121	
	MSD	1007897-51	ND	0.048501	0.050000	mg/kg		97.0		70 - 121	
Toluene-d8 (Surrogate)	MS	1007897-51	ND	0.050084	0.050000	mg/kg		100		81 - 117	
	MSD	1007897-51	ND	0.048397	0.050000	mg/kg		96.8		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1007897-51	ND	0.050333	0.050000	mg/kg		101		74 - 121	
	MSD	1007897-51	ND	0.050918	0.050000	mg/kg		102		74 - 121	
QC Batch ID: BTF1746		Used client sample: N									
Benzene	MS	1007897-53	ND	0.11398	0.12500	mg/kg		91.2		70 - 130	
	MSD	1007897-53	ND	0.12266	0.12500	mg/kg	7.3	98.1	20	70 - 130	
Toluene	MS	1007897-53	ND	0.11222	0.12500	mg/kg		89.8		70 - 130	
	MSD	1007897-53	ND	0.11541	0.12500	mg/kg	2.8	92.3	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-53	ND	0.052404	0.050000	mg/kg		105		70 - 121	
	MSD	1007897-53	ND	0.054039	0.050000	mg/kg		108		70 - 121	
Toluene-d8 (Surrogate)	MS	1007897-53	ND	0.051222	0.050000	mg/kg		102		81 - 117	
	MSD	1007897-53	ND	0.051171	0.050000	mg/kg		102		81 - 117	
4-Bromofluorobenzene (Surrogate)	MS	1007897-53	ND	0.051711	0.050000	mg/kg		103		74 - 121	
	MSD	1007897-53	ND	0.052673	0.050000	mg/kg		105		74 - 121	

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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BTF1981

TPH - Light Naptha	BTF1981-BLK1	ND	mg/kg	20		
TPH - Aviation Gas	BTF1981-BLK1	ND	mg/kg	20		
TPH - Stoddard Solvent	BTF1981-BLK1	ND	mg/kg	10		
TPH - Heavy Naptha	BTF1981-BLK1	ND	mg/kg	5.0		
TPH - Gasoline	BTF1981-BLK1	ND	mg/kg	10		
TPH - Jet Fuel (JP4)	BTF1981-BLK1	ND	mg/kg	2.0		
TPH - Jet Fuel (JP5)	BTF1981-BLK1	ND	mg/kg	2.0		
TPH - Jet Fuel (JP8)	BTF1981-BLK1	ND	mg/kg	2.0		
TPH - Kerosene	BTF1981-BLK1	ND	mg/kg	2.0		
TPH - Diesel (FFP)	BTF1981-BLK1	ND	mg/kg	2.0		
TPH - Fuel Oil #6	BTF1981-BLK1	ND	mg/kg	2.0		
TPH - Crude Oil	BTF1981-BLK1	ND	mg/kg	10		
TPH - Hydraulic Oil / Motor Oil	BTF1981-BLK1	ND	mg/kg	10		
TPH - WD-40	BTF1981-BLK1	ND	mg/kg	2.0		
TPH - Motor Oil	BTF1981-BLK1	ND	mg/kg	10		
Tetracosane (Surrogate)	BTF1981-BLK1	95.1	%	20 - 145 (LCL - UCL)		

QC Batch ID: BTF2046

Gasoline Range Organics (C4 - C12)	BTF2046-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF2046-BLK1	93.8	%	70 - 130 (LCL - UCL)		

QC Batch ID: BTG0015

Gasoline Range Organics (C4 - C12)	BTG0015-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTG0015-BLK1	96.5	%	70 - 130 (LCL - UCL)		



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTF1981										
TPH - Diesel (FFP)	BTF1981-BS1	LCS	13.660	16.949	mg/kg	80.6		50 - 136		
Tetracosane (Surrogate)	BTF1981-BS1	LCS	0.71214	0.67797	mg/kg	105		20 - 145		
QC Batch ID: BTF2046										
Gasoline Range Organics (C4 - C12)	BTF2046-BS1	LCS	4.5478	5.0000	mg/kg	91.0		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF2046-BS1	LCS	0.038100	0.040000	mg/kg	95.2		70 - 130		
QC Batch ID: BTG0015										
Gasoline Range Organics (C4 - C12)	BTG0015-BS1	LCS	4.8689	5.0000	mg/kg	97.4		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTG0015-BS1	LCS	0.037800	0.040000	mg/kg	94.5		70 - 130		



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BTF1981		Used client sample: Y - Description: SB-14-8, 06/17/2010 11:50									
TPH - Diesel (FFP)	MS	1008640-01	1.8810	14.615	16.949	mg/kg		75.1		40 - 137	
	MSD	1008640-01	1.8810	15.913	16.447	mg/kg	12.7	85.3	30	40 - 137	
Tetracosane (Surrogate)	MS	1008640-01	ND	0.63142	0.67797	mg/kg		93.1		20 - 145	
	MSD	1008640-01	ND	0.59490	0.65789	mg/kg		90.4		20 - 145	
QC Batch ID: BTF2046		Used client sample: N									
Gasoline Range Organics (C4 - C12)	MS	1007897-50	ND	4.6767	5.0000	mg/kg		93.5		70 - 130	
	MSD	1007897-50	ND	4.2845	5.0000	mg/kg	8.8	85.7	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-50	ND	0.038700	0.040000	mg/kg		96.8		70 - 130	
	MSD	1007897-50	ND	0.038800	0.040000	mg/kg		97.0		70 - 130	
QC Batch ID: BTG0015		Used client sample: N									
Gasoline Range Organics (C4 - C12)	MS	1007897-51	ND	5.2400	5.0000	mg/kg		105		70 - 130	
	MSD	1007897-51	ND	4.9429	5.0000	mg/kg	5.8	98.9	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-51	ND	0.038100	0.040000	mg/kg		95.2		70 - 130	
	MSD	1007897-51	ND	0.038200	0.040000	mg/kg		95.5		70 - 130	



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTG0073						
Oil and Grease	BTG0073-BLK1	ND	mg/kg	50		



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Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTG0073										
Oil and Grease	BTG0073-BS1	LCS	592.00	743.00	mg/kg	79.7		59 - 117		



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTG0073		Used client sample: Y - Description: SB-18-15, 06/15/2010 15:19								
Oil and Grease	DUP	1008393-33	14.000	ND		mg/kg			30	
	MS	1008393-33	14.000	559.00	743.00	mg/kg		73.4		56 - 111
	MSD	1008393-33	14.000	572.00	743.00	mg/kg	2.4	75.1	30	56 - 111



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Reported: 07/07/2010 15:49
Project: 1156
Project Number: 4513569998
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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.
- A10 PQL's and MDL's were raised due to matrix interference.
- A17 Surrogate not reportable due to sample dilution.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.



Date of Report: 07/02/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 1156
BC Work Order: 1008625
Invoice ID: B082848

Enclosed are the results of analyses for samples received by the laboratory on 6/21/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008625 Page 1 of 2

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3511 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Requisition / Line Number

DATE: 6/18/10
PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants		Valid Value ID:	CONOCOPHILLIPS SITE NUMBER SS# 1156		GLOBAL ID NO:	
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Sheet and City): 4276 MacArthur Blvd, Oakland, CA		CONOCOPHILLIPS SITE MANAGER: Terry Grayson		
PROJECT CONTACT (Hardcopy or PDF Report to): James Barnard		COF DELIVERABLE TO (RP or Designee): James Barnard (Delta)		PHONE NO: 916-503-1279	E-MAIL: Terry.G.Grayson@conocoPhillips.com	LAB USE ONLY 1008625
TELEPHONE: (916) 503-1279	FAX: (916) 636-8385	E-MAIL: jbarnard@deltaenv.com				
SAMPLER NAME(S) (Print): Alan Buehler/Caitlin Morgan		CONSULTANT PROJECT NUMBER: C101156		REQUESTED ANALYSES		

TURNAROUND TIME (CALENDAR DAYS):
 24 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
****8 Day Turn**

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED
Please CC Alan Buehler (abuehler@deltaenv.com) and Caitlin Morgan (cmorgan@deltaenv.com) on reports

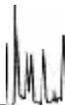
* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point		SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHg, TPHd	8092B - STEK, 8 OxyS	8016M - TPHmo	8664 - TOG	TEMPERATURE ON RECEIPT °C	
	DATE	TIME	DATE	TIME							CONTAINER PRESERVATIVE	PID READINGS OR LABORATORY NOTES
-1	SB-15-24	6/18/10	8:15	H2O	7	X	X	X			Various Preservatives Not Field Filtered	
	SB-15			H2O	7	X	X	X			Various Preservatives Not Field Filtered	
	SB-15			H2O	7	X	X	X			Various Preservatives Not Field Filtered	
-2	SB-16-25	6/17/10	8:00	H2O	7	X	X	X			Various Preservatives Not Field Filtered	
	SB-16			H2O	7	X	X	X			Various Preservatives Not Field Filtered	
	SB-16			H2O	7	X	X	X			Various Preservatives Not Field Filtered	
-3	SB-17-19	6/17/10	8:15	H2O	7	X	X	X			Various Preservatives Not Field Filtered	
	SB-17			H2O	7	X	X	X			Various Preservatives Not Field Filtered	
	SB-17			H2O	7	X	X	X			Various Preservatives Not Field Filtered	
-4	Composite	6/16/10	10:00	Soil		X	X	X				

CFIK BY: [Signature]
DISTRIBUTION: [Signature]
SUB-OUT:

Received by (Signature): <u>[Signature]</u>	Date: <u>6/21/10</u>	Time: <u>1305</u>
Received by (Signature): <u>[Signature]</u>	Date: <u>6-21-10</u>	Time: <u>1830</u>
Received by (Signature): <u>[Signature]</u>	Date: <u>6/21/10</u>	Time: <u>2200</u>

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

Submission #: 1008625

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 Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO
 Emissivity: 0.98 Container: 5211 Sleeve Thermometer ID: 103 Date/Time 6-21-10 2211
 Temperature: A 3.9 °C / C 4.1 °C Analyst Init JWW

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										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A	A	A							
QT EPA 413.1, 413.2, 413.3										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/6080										
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	B	B							
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE				A						
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JWW Date/Time: 6-23-10 10:38
 A = Actual / C = Corrected (H:\DOC\SWP\M0LAB_OOCS\FORMS\SAMREC2.WPD)

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1008625-01	COC Number:	---	Receive Date: 06/21/2010 22:00
	Project Number:	1156	Sampling Date: 06/18/2010 08:15
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-15-24	Sample Matrix: Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-15
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008625-02	COC Number:	---	Receive Date: 06/21/2010 22:00
	Project Number:	1156	Sampling Date: 06/17/2010 08:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-16-25	Sample Matrix: Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-16
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008625-03	COC Number:	---	Receive Date: 06/21/2010 22:00
	Project Number:	1156	Sampling Date: 06/17/2010 08:15
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	SB-17-19	Sample Matrix: Water
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): SB-17
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1008625-04	COC Number:	---	Receive Date: 06/21/2010 22:00
	Project Number:	1156	Sampling Date: 06/18/2010 10:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	Composite	Sample Matrix: Solids
	Sampled By:	DECR	Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): COMP
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008625-01	Client Sample Name: 1156, SB-15-24, 6/18/2010 8:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	EPA-8260	ND	Z1	1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND	Z1	1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND	Z1	1
Ethylbenzene	ND	ug/L	0.50	EPA-8260	ND	Z1	1
Methyl t-butyl ether	29	ug/L	0.50	EPA-8260	ND	Z1	1
Toluene	ND	ug/L	0.50	EPA-8260	ND	Z1	1
Total Xylenes	ND	ug/L	1.0	EPA-8260	ND	Z1	1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND	Z1	1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND	Z1	1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND	Z1	1
Ethanol	ND	ug/L	250	EPA-8260	ND	Z1	1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND	Z1	1
1,2-Dichloroethane-d4 (Surrogate)	101	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.2	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.0	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 10:11	KEA	MS-V10	1	BTF1624



Delta Environmental Consultants, Inc.
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Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008625-01	Client Sample Name: 1156, SB-15-24, 6/18/2010 8:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	ND		1
TPH - Diesel (FFP)	54	ug/L	50	Luft/FFP	ND		2
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		2
Tetracosane (Surrogate)	81.7	%	37 - 134 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	89.4	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/25/10	06/25/10 14:59	jjh	GC-V4	1	BTF1961
2	Luft/FFP	06/25/10	06/29/10 23:30	MWB	GC-13	0.960	BTF1876



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008625-02	Client Sample Name: 1156, SB-16-25, 6/17/2010 8:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	140	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane	23	ug/L	0.50	EPA-8260	ND		2
Ethylbenzene	14	ug/L	0.50	EPA-8260	ND		2
Methyl t-butyl ether	460	ug/L	2.5	EPA-8260	ND	A01	1
Toluene	7.5	ug/L	0.50	EPA-8260	ND		2
Total Xylenes	7.8	ug/L	1.0	EPA-8260	ND		2
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		2
t-Butyl alcohol	730	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
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	96.7	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	97.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	98.8	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.9	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 20:25	KEA	MS-V10	5	BTF1624
2	EPA-8260	06/23/10	06/24/10 09:54	KEA	MS-V10	1	BTF1624

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008625-02	Client Sample Name: 1156, SB-16-25, 6/17/2010 8:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	ug/L	50	Luft	ND		1
TPH - Diesel (FFP)	150	ug/L	50	Luft/FFP	ND		2
TPH - Motor Oil	ND	ug/L	200	Luft/FFP	ND		2
Tetracosane (Surrogate)	76.2	%	37 - 134 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/25/10	06/25/10 15:21	jjh	GC-V4	1	BTF1961
2	Luft/FFP	06/25/10	06/30/10 15:34	MWB	GC-13	0.990	BTF1876



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008625-03	Client Sample Name: 1156, SB-17-19, 6/17/2010 8:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	8.7	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	14	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	6.6	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	82	ug/L	0.50	EPA-8260	ND		1
Toluene	0.51	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	1.6	ug/L	1.0	EPA-8260	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		1
t-Butyl alcohol	640	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
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.2	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/23/10	06/24/10 09:36	KEA	MS-V10	1	BTF1624

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008625-03	Client Sample Name: 1156, SB-17-19, 6/17/2010 8:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	260	ug/L	50	Luft	ND		1
TPH - Diesel (FFP)	260	ug/L	72	Luft/FFP	ND		2
TPH - Motor Oil	ND	ug/L	290	Luft/FFP	ND		2
Tetracosane (Surrogate)	80.3	%	37 - 134 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/25/10	06/25/10 15:43	jjh	GC-V4	1	BTF1961
2	Luft/FFP	06/25/10	06/30/10 15:56	MWB	GC-13	1.449	BTF1876

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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008625-04 **Client Sample Name:** 1156, Composite, 6/18/2010 10:00:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	94.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/24/10	06/25/10 19:28	ADC	MS-V2	1	BTF1728

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Rancho Cordova, CA 95670

Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008625-04	Client Sample Name: 1156, Composite, 6/18/2010 10:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
TPH - Diesel (FFP)	ND	mg/kg	100	Luft/FFP	ND	A01	2
TPH - Motor Oil	2500	mg/kg	510	Luft/FFP	ND	A01	2
Tetracosane (Surrogate)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	2
a,a,a-Trifluorotoluene (FID Surrogate)	73.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/28/10	06/30/10 09:10	JJH	GC-V8	1	BTF2046
2	Luft/FFP	06/28/10	06/30/10 18:12	MWB	GC-13	50.505	BTF1981



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Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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: BTF1624						
Benzene	BTF1624-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BTF1624-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BTF1624-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTF1624-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTF1624-BLK1	ND	ug/L	0.50		
Toluene	BTF1624-BLK1	ND	ug/L	0.50		
Total Xylenes	BTF1624-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BTF1624-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BTF1624-BLK1	ND	ug/L	10		
Diisopropyl ether	BTF1624-BLK1	ND	ug/L	0.50		
Ethanol	BTF1624-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BTF1624-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BTF1624-BLK1	105	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1624-BLK1	98.5	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1624-BLK1	103	%	86 - 115 (LCL - UCL)		

QC Batch ID: BTF1728						
Benzene	BTF1728-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTF1728-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTF1728-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTF1728-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTF1728-BLK1	ND	mg/kg	0.0050		
Toluene	BTF1728-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTF1728-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTF1728-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTF1728-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTF1728-BLK1	ND	mg/kg	0.0050		
Ethanol	BTF1728-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTF1728-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTF1728-BLK1	99.4	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTF1728-BLK1	97.2	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTF1728-BLK1	96.4	%	74 - 121 (LCL - UCL)		



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Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTF1624										
Benzene	BTF1624-BS1	LCS	23.570	25.000	ug/L	94.3		70 - 130		
Toluene	BTF1624-BS1	LCS	26.760	25.000	ug/L	107		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1624-BS1	LCS	10.250	10.000	ug/L	102		76 - 114		
Toluene-d8 (Surrogate)	BTF1624-BS1	LCS	10.150	10.000	ug/L	102		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTF1624-BS1	LCS	9.8100	10.000	ug/L	98.1		86 - 115		
QC Batch ID: BTF1728										
Benzene	BTF1728-BS1	LCS	0.11364	0.12500	mg/kg	90.9		70 - 130		
Toluene	BTF1728-BS1	LCS	0.12439	0.12500	mg/kg	99.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1728-BS1	LCS	0.048429	0.050000	mg/kg	96.9		70 - 121		
Toluene-d8 (Surrogate)	BTF1728-BS1	LCS	0.049953	0.050000	mg/kg	99.9		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTF1728-BS1	LCS	0.050818	0.050000	mg/kg	102		74 - 121		



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Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Qualls
								Percent Recovery	Percent Recovery	
QC Batch ID: BTF1624		Used client sample: N								
Benzene	MS	1007897-43	ND	24.230	25.000	ug/L		96.9		70 - 130
	MSD	1007897-43	ND	23.700	25.000	ug/L	2.2	94.8	20	70 - 130
Toluene	MS	1007897-43	ND	27.290	25.000	ug/L		109		70 - 130
	MSD	1007897-43	ND	26.680	25.000	ug/L	2.3	107	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-43	ND	10.130	10.000	ug/L		101		76 - 114
	MSD	1007897-43	ND	10.040	10.000	ug/L		100		76 - 114
Toluene-d8 (Surrogate)	MS	1007897-43	ND	10.210	10.000	ug/L		102		88 - 110
	MSD	1007897-43	ND	10.260	10.000	ug/L		103		88 - 110
4-Bromofluorobenzene (Surrogate)	MS	1007897-43	ND	10.160	10.000	ug/L		102		86 - 115
	MSD	1007897-43	ND	10.000	10.000	ug/L		100		86 - 115
QC Batch ID: BTF1728		Used client sample: N								
Benzene	MS	1007897-52	ND	0.11301	0.12500	mg/kg		90.4		70 - 130
	MSD	1007897-52	ND	0.11696	0.12500	mg/kg	3.4	93.6	20	70 - 130
Toluene	MS	1007897-52	ND	0.11976	0.12500	mg/kg		95.8		70 - 130
	MSD	1007897-52	ND	0.12579	0.12500	mg/kg	4.9	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-52	ND	0.051913	0.050000	mg/kg		104		70 - 121
	MSD	1007897-52	ND	0.049408	0.050000	mg/kg		98.8		70 - 121
Toluene-d8 (Surrogate)	MS	1007897-52	ND	0.048833	0.050000	mg/kg		97.7		81 - 117
	MSD	1007897-52	ND	0.048728	0.050000	mg/kg		97.5		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1007897-52	ND	0.052909	0.050000	mg/kg		106		74 - 121
	MSD	1007897-52	ND	0.052174	0.050000	mg/kg		104		74 - 121

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Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF1876						
TPH - Diesel (FFP)	BTF1876-BLK1	ND	ug/L	50		
TPH - Motor Oil	BTF1876-BLK1	ND	ug/L	200		
Tetracosane (Surrogate)	BTF1876-BLK1	96.1	%		37 - 134 (LCL - UCL)	
QC Batch ID: BTF1961						
Gasoline Range Organics (C4 - C12)	BTF1961-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF1961-BLK1	83.8	%		70 - 130 (LCL - UCL)	
QC Batch ID: BTF1981						
TPH - Diesel (FFP)	BTF1981-BLK1	ND	mg/kg	2.0		
TPH - Motor Oil	BTF1981-BLK1	ND	mg/kg	10		
Tetracosane (Surrogate)	BTF1981-BLK1	95.1	%		20 - 145 (LCL - UCL)	
QC Batch ID: BTF2046						
Gasoline Range Organics (C4 - C12)	BTF2046-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF2046-BLK1	93.8	%		70 - 130 (LCL - UCL)	



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Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTF1876										
TPH - Diesel (FFP)	BTF1876-BS1	LCS	416.81	500.00	ug/L	83.4		52 - 128		
Tetracosane (Surrogate)	BTF1876-BS1	LCS	20.594	20.000	ug/L	103		37 - 134		
QC Batch ID: BTF1961										
Gasoline Range Organics (C4 - C12)	BTF1961-BS1	LCS	925.33	1000.0	ug/L	92.5		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF1961-BS1	LCS	36.104	40.000	ug/L	90.3		70 - 130		
QC Batch ID: BTF1981										
TPH - Diesel (FFP)	BTF1981-BS1	LCS	13.660	16.949	mg/kg	80.6		50 - 136		
Tetracosane (Surrogate)	BTF1981-BS1	LCS	0.71214	0.67797	mg/kg	105		20 - 145		
QC Batch ID: BTF2046										
Gasoline Range Organics (C4 - C12)	BTF2046-BS1	LCS	4.5478	5.0000	mg/kg	91.0		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF2046-BS1	LCS	0.038100	0.040000	mg/kg	95.2		70 - 130		



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Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quads
									RPD	Percent Recovery	
QC Batch ID: BTF1876		Used client sample: N									
TPH - Diesel (FFP)	MS	1007897-59	ND	413.24	500.00	ug/L		82.6		50 - 127	
	MSD	1007897-59	ND	417.62	500.00	ug/L	1.1	83.5	24	50 - 127	
Tetracosane (Surrogate)	MS	1007897-59	ND	20.980	20.000	ug/L		105		37 - 134	
	MSD	1007897-59	ND	20.136	20.000	ug/L		101		37 - 134	
QC Batch ID: BTF1961		Used client sample: N									
Gasoline Range Organics (C4 - C12)	MS	1007897-41	ND	911.70	1000.0	ug/L		91.2		70 - 130	
	MSD	1007897-41	ND	959.15	1000.0	ug/L	5.1	95.9	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-41	ND	36.555	40.000	ug/L		91.4		70 - 130	
	MSD	1007897-41	ND	36.515	40.000	ug/L		91.3		70 - 130	
QC Batch ID: BTF1981		Used client sample: Y - Description: SB-14-8, 06/17/2010 11:50									
TPH - Diesel (FFP)	MS	1008640-01	1.8810	14.615	16.949	mg/kg		75.1		40 - 137	
	MSD	1008640-01	1.8810	15.913	16.447	mg/kg	12.7	85.3	30	40 - 137	
Tetracosane (Surrogate)	MS	1008640-01	ND	0.63142	0.67797	mg/kg		93.1		20 - 145	
	MSD	1008640-01	ND	0.59490	0.65789	mg/kg		90.4		20 - 145	
QC Batch ID: BTF2046		Used client sample: N									
Gasoline Range Organics (C4 - C12)	MS	1007897-50	ND	4.6767	5.0000	mg/kg		93.5		70 - 130	
	MSD	1007897-50	ND	4.2845	5.0000	mg/kg	8.8	85.7	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-50	ND	0.038700	0.040000	mg/kg		96.8		70 - 130	
	MSD	1007897-50	ND	0.038800	0.040000	mg/kg		97.0		70 - 130	



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Reported: 07/02/2010 14:28
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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.
- Z1 Combined two VOAs for a complete sample.



Date of Report: 08/31/2010

Jim Barnard

Delta Environmental Consultants, Inc.

11050 White Rock Rd, Suite 110

Rancho Cordova, CA 95670

RE: 1156

BC Work Order: 1008625

Invoice ID: B082848

Enclosed are the results of analyses for samples received by the laboratory on 6/21/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/31/2010 13:23
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1008625-04

COC Number: ---
Project Number: 1156
Sampling Location: ---
Sampling Point: Composite
Sampled By: DECR

Receive Date: 06/21/2010 22:00
Sampling Date: 06/18/2010 10:00
Sample Depth: ---
Sample Matrix: Solids
Delivery Work Order:
Global ID:
Location ID (FieldPoint): COMP
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/31/2010 13:23
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

BCL Sample ID: 1008625-04	Client Sample Name: 1156, Composite, 6/18/2010 10:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	EPA-6010B	ND		1
Arsenic	3.1	mg/kg	1.0	EPA-6010B	ND		1
Barium	100	mg/kg	0.50	EPA-6010B	ND		1
Beryllium	ND	mg/kg	0.50	EPA-6010B	ND		1
Cadmium	ND	mg/kg	0.50	EPA-6010B	ND		1
Chromium	31	mg/kg	0.50	EPA-6010B	ND		1
Cobalt	13	mg/kg	2.5	EPA-6010B	ND		1
Copper	50	mg/kg	1.0	EPA-6010B	ND		1
Lead	3.3	mg/kg	2.5	EPA-6010B	ND		1
Mercury	ND	mg/kg	0.16	EPA-7471A	ND	S05	2
Molybdenum	ND	mg/kg	2.5	EPA-6010B	ND		1
Nickel	29	mg/kg	0.50	EPA-6010B	ND		1
Selenium	ND	mg/kg	1.0	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	EPA-6010B	ND		1
Vanadium	80	mg/kg	0.50	EPA-6010B	ND		1
Zinc	45	mg/kg	2.5	EPA-6010B	ND		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-6010B	08/25/10	08/26/10	08:54	ARD	PE-OP2	1	BTH1746
2	EPA-7471A	08/25/10	08/25/10	16:55	MEV	CETAC1	1.008	BTH1757



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/31/2010 13:23
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH1746						
Antimony	BTH1746-BLK1	ND	mg/kg	5.0		
Arsenic	BTH1746-BLK1	ND	mg/kg	1.0		
Barium	BTH1746-BLK1	ND	mg/kg	0.50		
Beryllium	BTH1746-BLK1	ND	mg/kg	0.50		
Cadmium	BTH1746-BLK1	ND	mg/kg	0.50		
Chromium	BTH1746-BLK1	ND	mg/kg	0.50		
Cobalt	BTH1746-BLK1	ND	mg/kg	2.5		
Copper	BTH1746-BLK1	ND	mg/kg	1.0		
Lead	BTH1746-BLK1	ND	mg/kg	2.5		
Molybdenum	BTH1746-BLK1	ND	mg/kg	2.5		
Nickel	BTH1746-BLK1	ND	mg/kg	0.50		
Selenium	BTH1746-BLK1	ND	mg/kg	1.0		
Silver	BTH1746-BLK1	ND	mg/kg	0.50		
Thallium	BTH1746-BLK1	ND	mg/kg	5.0		
Vanadium	BTH1746-BLK1	ND	mg/kg	0.50		
Zinc	BTH1746-BLK1	ND	mg/kg	2.5		
QC Batch ID: BTH1757						
Mercury	BTH1757-BLK1	ND	mg/kg	0.16		



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/31/2010 13:23
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1746										
Antimony	BTH1746-BS1	LCS	103.18	100.00	mg/kg	103		75 - 125		
Arsenic	BTH1746-BS1	LCS	10.208	10.000	mg/kg	102		75 - 125		
Barium	BTH1746-BS1	LCS	104.30	100.00	mg/kg	104		75 - 125		
Beryllium	BTH1746-BS1	LCS	10.858	10.000	mg/kg	109		75 - 125		
Cadmium	BTH1746-BS1	LCS	10.543	10.000	mg/kg	105		75 - 125		
Chromium	BTH1746-BS1	LCS	106.23	100.00	mg/kg	106		75 - 125		
Cobalt	BTH1746-BS1	LCS	108.17	100.00	mg/kg	108		75 - 125		
Copper	BTH1746-BS1	LCS	103.58	100.00	mg/kg	104		75 - 125		
Lead	BTH1746-BS1	LCS	111.58	100.00	mg/kg	112		75 - 125		
Molybdenum	BTH1746-BS1	LCS	104.39	100.00	mg/kg	104		75 - 125		
Nickel	BTH1746-BS1	LCS	110.08	100.00	mg/kg	110		75 - 125		
Selenium	BTH1746-BS1	LCS	9.8405	10.000	mg/kg	98.4		75 - 125		
Silver	BTH1746-BS1	LCS	8.9002	10.000	mg/kg	89.0		75 - 125		
Thallium	BTH1746-BS1	LCS	107.06	100.00	mg/kg	107		75 - 125		
Vanadium	BTH1746-BS1	LCS	110.90	100.00	mg/kg	111		75 - 125		
Zinc	BTH1746-BS1	LCS	108.34	100.00	mg/kg	108		75 - 125		
QC Batch ID: BTH1757										
Mercury	BTH1757-BS1	LCS	1.5761	1.5000	mg/kg	105		75 - 125		



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/31/2010 13:23
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTH1746		Used client sample: N								
Antimony	DUP	1011722-03	0.83759	ND		mg/kg			20	A02
	MS	1011722-03	0.83759	51.569	100.00	mg/kg		50.7		16 - 119
	MSD	1011722-03	0.83759	51.311	100.00	mg/kg	0.5	50.5	20	16 - 119
Arsenic	DUP	1011722-03	6.0338	6.3427		mg/kg	5.0		20	
	MS	1011722-03	6.0338	15.003	10.000	mg/kg		89.7		75 - 125
	MSD	1011722-03	6.0338	14.689	10.000	mg/kg	3.6	86.6	20	75 - 125
Barium	DUP	1011722-03	141.16	142.77		mg/kg	1.1		20	
	MS	1011722-03	141.16	215.61	100.00	mg/kg		74.4		75 - 125
	MSD	1011722-03	141.16	216.47	100.00	mg/kg	1.2	75.3	20	75 - 125
Beryllium	DUP	1011722-03	0.21233	ND		mg/kg			20	
	MS	1011722-03	0.21233	10.134	10.000	mg/kg		99.2		75 - 125
	MSD	1011722-03	0.21233	10.135	10.000	mg/kg	0.0	99.2	20	75 - 125
Cadmium	DUP	1011722-03	0.88715	0.86013		mg/kg	3.1		20	
	MS	1011722-03	0.88715	10.441	10.000	mg/kg		95.5		75 - 125
	MSD	1011722-03	0.88715	10.165	10.000	mg/kg	2.9	92.8	20	75 - 125
Chromium	DUP	1011722-03	67.384	67.495		mg/kg	0.2		20	
	MS	1011722-03	67.384	158.11	100.00	mg/kg		90.7		75 - 125
	MSD	1011722-03	67.384	157.85	100.00	mg/kg	0.3	90.5	20	75 - 125
Cobalt	DUP	1011722-03	1.4365	ND		mg/kg			20	
	MS	1011722-03	1.4365	94.366	100.00	mg/kg		92.9		75 - 125
	MSD	1011722-03	1.4365	94.357	100.00	mg/kg	0.0	92.9	20	75 - 125
Copper	DUP	1011722-03	246.35	245.61		mg/kg	0.3		20	
	MS	1011722-03	246.35	337.91	100.00	mg/kg		91.6		75 - 125
	MSD	1011722-03	246.35	338.34	100.00	mg/kg	0.5	92.0	20	75 - 125
Lead	DUP	1011722-03	11.176	11.433		mg/kg	2.3		20	
	MS	1011722-03	11.176	103.26	100.00	mg/kg		92.1		75 - 125
	MSD	1011722-03	11.176	99.978	100.00	mg/kg	3.6	88.8	20	75 - 125
Molybdenum	DUP	1011722-03	61.853	61.756		mg/kg	0.2		20	
	MS	1011722-03	61.853	152.73	100.00	mg/kg		90.9		75 - 125
	MSD	1011722-03	61.853	149.58	100.00	mg/kg	3.5	87.7	20	75 - 125
Nickel	DUP	1011722-03	10.526	10.408		mg/kg	1.1		20	
	MS	1011722-03	10.526	101.07	100.00	mg/kg		90.5		75 - 125
	MSD	1011722-03	10.526	100.89	100.00	mg/kg	0.2	90.4	20	75 - 125
Selenium	DUP	1011722-03	3.4842	3.5276		mg/kg	1.2		20	
	MS	1011722-03	3.4842	14.942	10.000	mg/kg		115		75 - 125
	MSD	1011722-03	3.4842	14.003	10.000	mg/kg	8.5	105	20	75 - 125
Silver	DUP	1011722-03	2.2547	2.2504		mg/kg	0.2		20	
	MS	1011722-03	2.2547	10.429	10.000	mg/kg		81.7		75 - 125
	MSD	1011722-03	2.2547	10.431	10.000	mg/kg	0.0	81.8	20	75 - 125

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/31/2010 13:23
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quads
									RPD	Percent Recovery	
QC Batch ID: BTH1746		Used client sample: N									
Thallium	DUP	1011722-03	ND	ND		mg/kg			20		
	MS	1011722-03	ND	87.869	100.00	mg/kg		87.9		75 - 125	
	MSD	1011722-03	ND	85.853	100.00	mg/kg	2.3	85.9	20	75 - 125	
Vanadium	DUP	1011722-03	32.341	32.391		mg/kg	0.2		20		
	MS	1011722-03	32.341	131.94	100.00	mg/kg		99.6		75 - 125	
	MSD	1011722-03	32.341	131.83	100.00	mg/kg	0.1	99.5	20	75 - 125	
Zinc	DUP	1011722-03	564.18	564.97		mg/kg	0.1		20		
	MS	1011722-03	564.18	642.85	100.00	mg/kg		78.7		75 - 125	
	MSD	1011722-03	564.18	643.11	100.00	mg/kg	0.3	78.9	20	75 - 125	
QC Batch ID: BTH1757		Used client sample: N									
Mercury	DUP	1011722-03	0.74969	0.78154		mg/kg	4.2		20		
	MS	1011722-03	0.74969	1.4683	0.76923	mg/kg		93.4		85 - 115	
	MSD	1011722-03	0.74969	1.5143	0.76923	mg/kg	6.2	99.4	20	85 - 115	



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 08/31/2010 13:23
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

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
- A02 The difference between duplicate readings is less than the PQL.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S05 The sample holding time was exceeded.



Date of Report: 07/08/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 1156
BC Work Order: 1008371
Invoice ID: B082540

Enclosed are the results of analyses for samples received by the laboratory on 6/16/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008371 Page 1 of 2

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Regulation / Line Number
DATE: _____
PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants		FIELD VALUE ID:	CONOCOPHILLIPS SITE NUMBER: SS# 1156	GLOBAL ID NO.:
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670		SITE ADDRESS (Street and City): 4276 MacArthur Blvd, Oakland, CA		CONOCOPHILLIPS SITE MANAGER: Terry Grayson
PROJECT CONTACT (hardcopy or PDF Report to): James Barnard		EDF DELIVERABLE TO (RP or Designee): James Barnard (Delta)		PHONE NO.: 916-503-1279
TELEPHONE: (916) 503-1279	FAX: (916) 638-8385	E-MAIL: j.barnard@deltaenv.com	E-MMR: Terry L. Grayson@conocophillips.com	
SAMPLER NAME(S) (Print): Alan Buehler/Caitlin Morgan		CONSULTANT PROJECT NUMBER: C101156	LAB USE ONLY 1008371	

REQUESTED ANALYSES

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

****8 Day Turn**

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED
Hoffball samples until further notice
 Please CC Alan Buehler (abuehler@deltaenv.com) and Caitlin Morgan (cmorgan@deltaenv.com) on reports

* Field Point name only required if different from Sample ID

LAB USE ONLY	Sample Identification/Field Point		SAMPLING		MATRIX	NO. OF CONT.	8015M - TPHg, TPHid	8260B - BTEX, 8 Oxyg	8015M - TPHmo	1664 - TOG	OTHER	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	Name*	DATE	TIME	TEMPERATURE ON RECEIPT C*								
1	SB-18-	6/16/10	8:00	H2O	7	X	X	X				Various Preservatives Not Field Filtered
	SB-18-		8:00	H2O	7	X	X	X				Various Preservatives Not Field Filtered
2	SB-19-	6/16/10	8:15	H2O	7	X	X	X				Various Preservatives Not Field Filtered
	SB-19-			H2O	7	X	X	X				Various Preservatives Not Field Filtered

Received by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6/16/10	Time: 1840
Received by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6-16-10	Time: 1825
Received by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6/16/10	Time: 2140

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

Submission #: 1008371

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 Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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: WTA Thermometer ID: #106 30/16
 Temperature: A 1.3 °C / C 1.3 °C #177 Date/Time: 10/16/10 2:50
 Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT FE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2or. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A	A								
QT EPA 413.1, 413.2, 413.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/08/0180										
QT EPA 515.1/8159										
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	B	B								
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JRW Date/Time: 10-16-10 2:26
 A = Actual / C = Corrected [H:\DOCS\WP8\LAB_DOCS\FORMS\SAHREC2.WPD]



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1008371-01	COC Number: ---	Receive Date: 06/16/2010 21:40
	Project Number: 1156	Sampling Date: 06/16/2010 08:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-18	Sample Matrix: Water
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-18
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1008371-02	COC Number: ---	Receive Date: 06/16/2010 21:40
	Project Number: 1156	Sampling Date: 06/16/2010 08:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-19	Sample Matrix: Water
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): SB-19
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008371-01	Client Sample Name: 1156, SB-18, 6/16/2010 8:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	94	ug/L	2.5	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		2
Ethylbenzene	4.8	ug/L	0.50	EPA-8260	ND		2
Methyl t-butyl ether	180	ug/L	2.5	EPA-8260	ND	A01	1
Toluene	4.1	ug/L	0.50	EPA-8260	ND		2
Total Xylenes	12	ug/L	1.0	EPA-8260	ND		2
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND		2
t-Butyl alcohol	ND	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
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		2
1,2-Dichloroethane-d4 (Surrogate)	99.4	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.9	%	88 - 110 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	107	%	86 - 115 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/18/10	06/22/10 19:57	KEA	MS-V12	5	BTF1283
2	EPA-8260	06/18/10	06/18/10 12:54	KEA	MS-V12	1	BTF1283

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008371-01	Client Sample Name: 1156, SB-18, 6/16/2010 8:00:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	1900	ug/L	50	Luft	ND		1
TPH - Diesel (FFP)	720	ug/L	50	Luft/FFP	ND		2
TPH - Motor Oil	480	ug/L	200	Luft/FFP	ND		2
Tetracosane (Surrogate)	102	%	37 - 134 (LCL - UCL)	Luft/FFP		V11	2
a,a,a-Trifluorotoluene (FID Surrogate)	86.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/16/10	06/18/10 16:45	jjh	GC-V4	1	BTF1131
2	Luft/FFP	06/22/10	06/25/10 01:37	MWB	GC-13	0.960	BTF1735



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1008371-02	Client Sample Name: 1156, SB-19, 6/16/2010 8:15:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	8.6	ug/L	0.50	EPA-8260	ND	Z1	1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND	Z1	1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND	Z1	1
Ethylbenzene	4.3	ug/L	0.50	EPA-8260	ND	Z1	1
Methyl t-butyl ether	93	ug/L	0.50	EPA-8260	ND	Z1	1
Toluene	1.2	ug/L	0.50	EPA-8260	ND	Z1	1
Total Xylenes	9.5	ug/L	1.0	EPA-8260	ND	Z1	1
t-Amyl Methyl ether	ND	ug/L	0.50	EPA-8260	ND	Z1	1
t-Butyl alcohol	ND	ug/L	10	EPA-8260	ND	Z1	1
Diisopropyl ether	ND	ug/L	0.50	EPA-8260	ND	Z1	1
Ethanol	ND	ug/L	250	EPA-8260	ND	Z1	1
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND	Z1	1
1,2-Dichloroethane-d4 (Surrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	06/18/10	06/18/10 12:36	KEA	MS-V12	1	BTF1283



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1008371-02	Client Sample Name: 1156, SB-19, 6/16/2010 8:15:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	1100	ug/L	50	Luft	ND		1
TPH - Diesel (FFP)	230	ug/L	50	Luft/FFP	ND		2
TPH - Motor Oil	230	ug/L	200	Luft/FFP	ND		2
Tetracosane (Surrogate)	76.5	%	37 - 134 (LCL - UCL)	Luft/FFP		V11	2
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	06/16/10	06/18/10 17:07	jjh	GC-V4	1	BTF1131
2	Luft/FFP	06/22/10	06/25/10 02:00	MWB	GC-13	1	BTF1735



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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: BTF1283						
Benzene	BTF1283-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BTF1283-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BTF1283-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTF1283-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTF1283-BLK1	ND	ug/L	0.50		
Toluene	BTF1283-BLK1	ND	ug/L	0.50		
Total Xylenes	BTF1283-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BTF1283-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BTF1283-BLK1	ND	ug/L	10		
Diisopropyl ether	BTF1283-BLK1	ND	ug/L	0.50		
Ethanol	BTF1283-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BTF1283-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BTF1283-BLK1	104	%		76 - 114 (LCL - UCL)	
Toluene-d8 (Surrogate)	BTF1283-BLK1	105	%		88 - 110 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BTF1283-BLK1	94.6	%		86 - 115 (LCL - UCL)	



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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTF1283										
Benzene	BTF1283-BS1	LCS	21.450	25.000	ug/L	85.8		70 - 130		
Toluene	BTF1283-BS1	LCS	23.580	25.000	ug/L	94.3		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTF1283-BS1	LCS	9.9000	10.000	ug/L	99.0		76 - 114		
Toluene-d8 (Surrogate)	BTF1283-BS1	LCS	9.6600	10.000	ug/L	96.6		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTF1283-BS1	LCS	10.240	10.000	ug/L	102		86 - 115		



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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quas
								Percent Recovery	Percent Recovery	
QC Batch ID: BTF1283		Used client sample: N								
Benzene	MS	1007897-34	ND	25.550	25.000	ug/L		102		70 - 130
	MSD	1007897-34	ND	26.670	25.000	ug/L	4.3	107	20	70 - 130
Toluene	MS	1007897-34	ND	27.650	25.000	ug/L		111		70 - 130
	MSD	1007897-34	ND	28.390	25.000	ug/L	2.6	114	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-34	ND	9.6600	10.000	ug/L		96.6		76 - 114
	MSD	1007897-34	ND	9.9500	10.000	ug/L		99.5		76 - 114
Toluene-d8 (Surrogate)	MS	1007897-34	ND	10.410	10.000	ug/L		104		88 - 110
	MSD	1007897-34	ND	10.410	10.000	ug/L		104		88 - 110
4-Bromofluorobenzene (Surrogate)	MS	1007897-34	ND	10.160	10.000	ug/L		102		86 - 115
	MSD	1007897-34	ND	10.420	10.000	ug/L		104		86 - 115



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTF1131						
Gasoline Range Organics (C4 - C12)	BTF1131-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF1131-BLK1	86.0	%		70 - 130 (LCL - UCL)	
QC Batch ID: BTF1735						
TPH - Diesel (FFP)	BTF1735-BLK1	ND	ug/L	50		
TPH - Motor Oil	BTF1735-BLK1	ND	ug/L	200		
Tetracosane (Surrogate)	BTF1735-BLK1	98.7	%		37 - 134 (LCL - UCL)	



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTF1131										
Gasoline Range Organics (C4 - C12)	BTF1131-BS1	LCS	1077.1	1000.0	ug/L	108		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTF1131-BS1	LCS	37.697	40.000	ug/L	94.2		70 - 130		
QC Batch ID: BTF1735										
TPH - Diesel (FFP)	BTF1735-BS1	LCS	368.79	500.00	ug/L	73.8		52 - 128		
Tetracosane (Surrogate)	BTF1735-BS1	LCS	20.142	20.000	ug/L	101		37 - 134		



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTF1131		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1007897-03	ND	911.35	1000.0	ug/L		91.1		70 - 130
	MSD	1007897-03	ND	999.70	1000.0	ug/L	9.2	100	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1007897-03	ND	37.840	40.000	ug/L		94.6		70 - 130
	MSD	1007897-03	ND	37.486	40.000	ug/L		93.7		70 - 130
QC Batch ID: BTF1735		Used client sample: N								
TPH - Diesel (FFP)	MS	1007897-60	ND	356.80	500.00	ug/L		71.4		50 - 127
	MSD	1007897-60	ND	325.27	500.00	ug/L	9.2	65.1	24	50 - 127
Tetracosane (Surrogate)	MS	1007897-60	ND	18.570	20.000	ug/L		92.8		37 - 134
	MSD	1007897-60	ND	18.874	20.000	ug/L		94.4		37 - 134



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 07/08/2010 14:36
Project: 1156
Project Number: 4513569998
Project Manager: Jim Barnard

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.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.
- Z1 Combined two VOAs for a complete sample.



Date of Report: 09/01/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 1156
BC Work Order: 1011659
Invoice ID: B086141

Enclosed are the results of analyses for samples received by the laboratory on 8/18/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Environmental Testing Laboratory Since 1949

[Handwritten signature]

Chain of Custody and Cooler Receipt Form for 1011659 Page 1 of 4

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.

4100 Atlas Court
Bakersfield, CA 93308

(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager:

Shebly Lathrop

INVOICE REMITTANCE ADDRESS:

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

ConocoPhillips SAP Project Number

ConocoPhillips Requisition / Line Number

DATE: 8/16/10

PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: 401159	GLOBAL ID NO.:
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670	SITE ADDRESS (Street and City): 4706 MacArthur Blvd, Oakland, CA	CONOCOPHILLIPS SITE MANAGER: Terry Grayson	
PROJECT CONTACT (Name and/or PDF Report to): James Bernard	ESP DELIVERABLE TO (SP or Designee):	PHONE NO.:	LAB USE ONLY: 10-11659
TELEPHONE: 916-503-0000	FAX:	EMAIL:	
SAMPLER NAME(S) (Print):	CONSULTANT PROJECT NUMBER:		

REQUESTED ANALYSES

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

****8 Day Turn** to deliver**

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NEEDED

Please CC Alan Buehler (abuehler@deltaenv.com) on reports

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

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015B - THPq, TPHd	8260B - BTEX, 8 Onys	8015M - TPHano	1664 - TOG	TEMPERATURE ON RECEIPT C*
		DATE	TIME							
1	MW-3B-5	8/16/10	9:56	soil	1	X				Various Preservatives Not Field Filtered
1	MW-3B-10		9:07							Various Preservatives Not Field Filtered
3	MW-3B-15		9:15							Various Preservatives Not Field Filtered
2	MW-3B-20		9:20							Various Preservatives Not Field Filtered
5	MW-3B-25		9:25							Various Preservatives Not Field Filtered
20	MW-2B-5		12:19							Various Preservatives Not Field Filtered
3	MW-2B-10		12:54							Various Preservatives Not Field Filtered
20	MW-2B-15		1:00							Various Preservatives Not Field Filtered
9	MW-2B-20		1:10							Various Preservatives Not Field Filtered
20	MW-2B-25		1:15							Various Preservatives Not Field Filtered

CHIEF BY: *[Signature]*
DISTRIBUTION: *[Signature]*
SUB-OUT: *[Signature]*

Authorized by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 8/18/10	Time: 1434
Authorized by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 8-18-10	Time: 1810
Authorized by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 8-18-10	Time: 2130

2130

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation. 4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com



BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1011659 Page 2 of 4

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: **Shelby Lathrop**
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Requisition / Line Number

DATE: **8/16/10**
PAGE: _____ of _____

SAMPLING COMPANY: Delta Consultants	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER: C101156	GLOBAL ID NO.:
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670	SITE ADDRESS (Street and City): 4276 MacArthur Oakland, CA	CONOCOPHILLIPS SITE MANAGER: Terry Sawyer Bill Song	
PROJECT CONTACT (Name/Title or PEP Report ID): James Sawyer Barnard	PEP DELIVERABLE TO (RP or Designator):	PHONE NO.:	EMAIL: 10-11659
TELEPHONE: 916-503-1279	FAX:	E-MAIL: sbarnard@deltaenv.com	LAB USE ONLY
SAMPLER REFERENCE(S) (P/N#)	CONSULTANT PROJECT NUMBER	REQUESTED ANALYSES	

TURNDOWN TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
10 day turn

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NEEDED
Please CC Alan Buehler (abuehler@deltaenv.com) on reports

* Field Point name only required if different from Sample ID

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

LAP USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - THPq, TPHd	8260B - BTEX, 8 Oxyg	8015M - TPHano	1664 - TOG	11425	TEMPERATURE ON RECEIPT °C
		DATE	TIME								
	Comp soil	8/16/10	1:20	soil	3	X	X			X	Various Preservatives Not Field Filtered
	MW-1B-5	8/17/10	9:00		1						Various Preservatives Not Field Filtered
	MW-1B-10		9:10								Various Preservatives Not Field Filtered
	MW-1B-15		9:20								Various Preservatives Not Field Filtered
	MW-1B-20		9:25								Various Preservatives Not Field Filtered
	MW-1B-25		9:30								Various Preservatives Not Field Filtered

Requested by (Signature): [Signature]	Received by (Signature): [Signature]	Date: 8/18/10	Time: 1434
Requested by (Signature): Kos Dickey	Received by (Signature): [Signature]	Date: 8-18-10	Time: 1810
Requested by (Signature): R. Ruy	Received by (Signature): [Signature]	Date: 8-18-10	Time: 2130

2130

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

Submission #: 10-11659

SHIPPING INFORMATION
Federal Express [] UPS [] Hand Delivery []
BC Lab Field Service [X] Other [] (Specify) _____

SHIPPING CONTAINER
Ice Chest [X] None []
Box [] Other [] (Specify) _____

Refrigerant: Ice [X] Blue Ice [] None [] Other [] Comments: _____

Custody Seals Ice Chest [] Containers [] None [X] Comments: _____
Intact? Yes [] No [X] Intact? Yes [] No [X]

All samples received? Yes [X] No [] All samples containers intact? Yes [X] No [] Description(s) match COC? Yes [X] No []

COC Received YES [X] NO []
Emissivity: 0.96 @ 16 Container: S. Seal Thermometer ID: 11638715 Date/Time: 8/18/10 2150
Temperature: A 5.2 °C / C 5.2 °C Analyst Init: [Signature]

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. Handwritten 'A' marks are present in the bottom rows.

Comments: _____ Date/Time: 8/19/10 1729
Sample Numbering Completed By: [Signature]
A = Actual / C = Corrected



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

Submission #: 10-11659

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

SHIPPING CONTAINER: Ice Chest Box None Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received: YES NO

Emissivity: 0.9690 Container: 3 Seal Thermometer: 101163915 Date/Time: 8/18/10 2150
 Temperature: A 5.2 °C C 5.2 °C Analyst Init: [Signature]

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										
PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	C	C	C	C	C	C	C	C	C	C
QT EPA 413.1, 413.2, 413.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 503/608/8180										
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 612										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____

Sample Numbering Completed By: [Signature] Date/Time: 8/19/10 1729

A = Actual J = Corrected



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1011659-01	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/16/2010 08:56
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3B-5	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): MW-3B
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1011659-02	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/16/2010 09:07
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3B-10	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): MW-3B
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1011659-03	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/16/2010 09:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3B-15	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): MW-3B
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	

1011659-04	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/16/2010 09:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3B-20	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
		Global ID:
		Location ID (FieldPoint): MW-3B
		Matrix: SO
	Sample QC Type (SACode): CS	
	Cooler ID:	



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Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1011659-05	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: MW-3B-25 Sampled By: DECR	Receive Date: 08/18/2010 21:30 Sampling Date: 08/16/2010 09:25 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): MW-3B Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1011659-06	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: MW-2B-5 Sampled By: DECR	Receive Date: 08/18/2010 21:30 Sampling Date: 08/16/2010 12:19 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): MW-2B Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1011659-07	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: MW-2B-10 Sampled By: DECR	Receive Date: 08/18/2010 21:30 Sampling Date: 08/16/2010 12:54 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): MW-2B Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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1011659-08	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: MW-2B-15 Sampled By: DECR	Receive Date: 08/18/2010 21:30 Sampling Date: 08/16/2010 01:00 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): MW-2B Matrix: SO Sample QC Type (SACode): CS Cooler ID:
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Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1011659-09	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/16/2010 01:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-2B-20	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
	Global ID:	
	Location ID (FieldPoint): MW-2B	
	Matrix: SO	
	Sample QC Type (SACode): CS	
	Cooler ID:	

1011659-10	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/16/2010 01:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-2B-25	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
	Global ID:	
	Location ID (FieldPoint): MW-2B	
	Matrix: SO	
	Sample QC Type (SACode): CS	
	Cooler ID:	

1011659-11	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/16/2010 01:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Comp Soil	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
	Global ID:	
	Location ID (FieldPoint): Comp Soil	
	Matrix: SO	
	Sample QC Type (SACode): CS	
	Cooler ID:	

1011659-12	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/17/2010 09:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-1B-5	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:
	Global ID:	
	Location ID (FieldPoint): MW-1B	
	Matrix: SO	
	Sample QC Type (SACode): CS	
	Cooler ID:	



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Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1011659-13	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/17/2010 09:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-1B-10	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:

Global ID:
Location ID (FieldPoint): MW-1B
Matrix: SO
Sample QC Type (SACode): CS
Cooler ID:

1011659-14	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/17/2010 09:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-1B-15	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:

Global ID:
Location ID (FieldPoint): MW-1B
Matrix: SO
Sample QC Type (SACode): CS
Cooler ID:

1011659-15	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/17/2010 09:25
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-1B-20	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:

Global ID:
Location ID (FieldPoint): MW-1B
Matrix: SO
Sample QC Type (SACode): CS
Cooler ID:

1011659-16	COC Number: ---	Receive Date: 08/18/2010 21:30
	Project Number: 1156	Sampling Date: 08/17/2010 09:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-1B-25	Sample Matrix: Solids
	Sampled By: DECR	Delivery Work Order:

Global ID:
Location ID (FieldPoint): MW-1B
Matrix: SO
Sample QC Type (SACode): CS
Cooler ID:



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-01	Client Sample Name: 1156, MW-3B-5, 8/16/2010 8:56:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.8	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.4	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/25/10 20:02	MCQ	MS-V3	1	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-01	Client Sample Name: 1156, MW-3B-5, 8/16/2010 8:56:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	81.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/25/10	08/25/10 23:18	JJH	GC-V8	1	BTH1748



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Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-01	Client Sample Name: 1156, MW-3B-5, 8/16/2010 8:56:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	20	Luft/TPHd	ND	A01,Z1b	1
Tetracosane (Surrogate)	66.7	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1b	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 13:58	MWB	GC-5	9.901	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-02	Client Sample Name: 1156, MW-3B-10, 8/16/2010 9:07:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.018	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.10	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.075	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.54	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	90.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/25/10 20:28	MCQ	MS-V3	1	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-02	Client Sample Name: 1156, MW-3B-10, 8/16/2010 9:07:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	1.3	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/24/10	08/24/10 16:54	JJH	GC-V8	1	BTH1336



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-02	Client Sample Name: 1156, MW-3B-10, 8/16/2010 9:07:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	20	Luft/TPHd	ND	A01,Z1b	1
Tetracosane (Surrogate)	82.2	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1b	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 14:11	MWB	GC-5	9.901	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-03	Client Sample Name: 1156, MW-3B-15, 8/16/2010 9:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	5.0	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	5.0	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Ethylbenzene	33	mg/kg	5.0	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Toluene	20	mg/kg	5.0	EPA-8260	ND	A01	1
Total Xylenes	180	mg/kg	10	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	5.0	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	50	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	1000	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	5.0	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	92.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 05:05	MCQ	MS-V3	1000	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-03	Client Sample Name: 1156, MW-3B-15, 8/16/2010 9:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	310	mg/kg	100	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/24/10	08/24/10 17:24	JJH	GC-V8	100	BTH1336

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-03	Client Sample Name: 1156, MW-3B-15, 8/16/2010 9:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	150	mg/kg	20	Luft/TPHd	ND	A01,Z1b	1
Tetracosane (Surrogate)	80.2	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1b	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 14:25	MWB	GC-5	9.443	BTH2056

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-04	Client Sample Name: 1156, MW-3B-20, 8/16/2010 9:20:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Ethylbenzene	0.38	mg/kg	0.12	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Toluene	0.46	mg/kg	0.12	EPA-8260	ND	A01	1
Total Xylenes	2.0	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
Ethyl t-butyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	84.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 14:43	MCQ	MS-V3	25	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-04	Client Sample Name: 1156, MW-3B-20, 8/16/2010 9:20:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	76.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/27/10	08/30/10 11:12	JJH	GC-V8	1	BTH1748



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-04	Client Sample Name: 1156, MW-3B-20, 8/16/2010 9:20:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	20	Luft/TPHd	ND	A01,Z1b	1
Tetracosane (Surrogate)	92.8	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1b	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 14:39	MWB	GC-5	10	BTH2056

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-05	Client Sample Name: 1156, MW-3B-25, 8/16/2010 9:25:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.061	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.042	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.37	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	89.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 15:35	MCQ	MS-V3	1	BTH1752

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-05	Client Sample Name: 1156, MW-3B-25, 8/16/2010 9:25:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	4.6	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	80.0	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/24/10	08/24/10 18:25	JJH	GC-V8	1	BTH1336



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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-05	Client Sample Name: 1156, MW-3B-25, 8/16/2010 9:25:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	78.7	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 14:53	MWB	GC-5	0.950	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-06	Client Sample Name: 1156, MW-2B-5, 8/16/2010 12:19:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.0090	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.011	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.030	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.12	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	81.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	79.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 02:30	MCQ	MS-V3	1	BTH1752



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-06	Client Sample Name: 1156, MW-2B-5, 8/16/2010 12:19:00PM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/24/10	08/25/10 12:32	JJH	GC-V8	1	BTH1336



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-06	Client Sample Name: 1156, MW-2B-5, 8/16/2010 12:19:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	200	Luft/TPHd	ND	A01,Z1a	1
Tetracosane (Surrogate)	0	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1a	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 15:35	MWB	GC-5	98.361	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-07	Client Sample Name: 1156, MW-2B-10, 8/16/2010 12:54:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.28	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.0085	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.020	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.84	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	107	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.4	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 02:56	MCQ	MS-V3	1	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-07	Client Sample Name: 1156, MW-2B-10, 8/16/2010 12:54:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	54	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	108	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/24/10	08/28/10 11:58	JJH	GC-V8	25	BTH1336



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-07	Client Sample Name: 1156, MW-2B-10, 8/16/2010 12:54:00PM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	73.4	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 15:49	MWB	GC-5	1	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-08	Client Sample Name: 1156, MW-2B-15, 8/16/2010 1:00:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.32	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	0.25	mg/kg	0.0050	EPA-8260	ND		1
Toluene	ND	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.69	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	108	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	99.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 03:21	MCQ	MS-V3	1	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-08	Client Sample Name: 1156, MW-2B-15, 8/16/2010 1:00:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	55	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/26/10	08/28/10 12:29	JJH	GC-V8	25	BTH1748



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-08	Client Sample Name: 1156, MW-2B-15, 8/16/2010 1:00:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	200	Luft/TPHd	ND	A01,Z1	1
Tetracosane (Surrogate)	544	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 16:03	MWB	GC-5	100	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-09 **Client Sample Name:** 1156, MW-2B-20, 8/16/2010 1:10:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.076	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethylbenzene	1.1	mg/kg	0.025	EPA-8260	ND	A01	1
Methyl t-butyl ether	0.099	mg/kg	0.025	EPA-8260	ND	A01	1
Toluene	0.18	mg/kg	0.025	EPA-8260	ND	A01	1
Total Xylenes	3.3	mg/kg	0.050	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	89.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	79.0	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 07:14	MCQ	MS-V3	5	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-09	Client Sample Name: 1156, MW-2B-20, 8/16/2010 1:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	4.4	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	83.5	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/24/10	08/24/10 23:00	JJH	GC-V8	1	BTH1336

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-09	Client Sample Name: 1156, MW-2B-20, 8/16/2010 1:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	1200	Luft/TPHd	ND	A01,Z1	1
Tetracosane (Surrogate)	0	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 16:17	MWB	GC-5	600	BTH2056



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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-10	Client Sample Name: 1156, MW-2B-25, 8/16/2010 1:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	ND	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 03:47	MCQ	MS-V3	1	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-10	Client Sample Name: 1156, MW-2B-25, 8/16/2010 1:15:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	95.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/24/10	08/24/10 23:31	JJH	GC-V8	1	BTH1336



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-10	Client Sample Name: 1156, MW-2B-25, 8/16/2010 1:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	2.0	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	68.2	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 16:31	MWB	GC-5	0.967	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-11	Client Sample Name: 1156, Comp Soil, 8/16/2010 1:20:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Ethylbenzene	19	mg/kg	2.5	EPA-8260	ND	A01	2
Methyl t-butyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Toluene	0.24	mg/kg	0.12	EPA-8260	ND	A01	1
Total Xylenes	110	mg/kg	5.0	EPA-8260	ND	A01	2
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
Ethyl t-butyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	91.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	92.8	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	108	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.4	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 15:09	MCQ	MS-V3	25	BTH1752
2	EPA-8260	08/25/10	08/26/10 05:57	MCQ	MS-V3	500	BTH1752

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-11	Client Sample Name: 1156, Comp Soil, 8/16/2010 1:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	130	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	114	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/25/10	08/28/10 13:00	JJH	GC-V8	25	BTH1748

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-11	Client Sample Name: 1156, Comp Soil, 8/16/2010 1:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	2.5	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	78.8	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 16:46	MWB	GC-5	0.977	BTH2056

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

BCL Sample ID: 1011659-11	Client Sample Name: 1156, Comp Soil, 8/16/2010 1:20:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Antimony	ND	mg/kg	5.0	EPA-6010B	ND		1
Arsenic	3.8	mg/kg	1.0	EPA-6010B	ND		1
Barium	67	mg/kg	0.50	EPA-6010B	ND		1
Beryllium	ND	mg/kg	0.50	EPA-6010B	ND		1
Cadmium	ND	mg/kg	0.50	EPA-6010B	ND		1
Chromium	29	mg/kg	0.50	EPA-6010B	ND		1
Cobalt	8.4	mg/kg	2.5	EPA-6010B	ND		1
Copper	27	mg/kg	1.0	EPA-6010B	ND		1
Lead	11	mg/kg	2.5	EPA-6010B	ND		1
Mercury	ND	mg/kg	0.16	EPA-7471A	ND		2
Molybdenum	ND	mg/kg	2.5	EPA-6010B	ND		1
Nickel	24	mg/kg	0.50	EPA-6010B	ND		1
Selenium	ND	mg/kg	1.0	EPA-6010B	ND		1
Silver	ND	mg/kg	0.50	EPA-6010B	ND		1
Thallium	ND	mg/kg	5.0	EPA-6010B	ND		1
Vanadium	53	mg/kg	0.50	EPA-6010B	ND		1
Zinc	49	mg/kg	2.5	EPA-6010B	ND		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-6010B	08/25/10	08/26/10	09:03	ARD	PE-OP2	1	BTH1746
2	EPA-7471A	08/25/10	08/25/10	16:51	MEV	CETAC1	1.008	BTH1757

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-12	Client Sample Name: 1156, MW-1B-5, 8/17/2010 9:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	1.1	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		2
1,2-Dichloroethane	0.031	mg/kg	0.0050	EPA-8260	ND		2
Ethylbenzene	4.5	mg/kg	0.12	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		2
Toluene	0.054	mg/kg	0.0050	EPA-8260	ND		2
Total Xylenes	0.48	mg/kg	0.010	EPA-8260	ND		2
t-Amyl Methyl ether	ND	mg/kg	0.0050	EPA-8260	ND		2
t-Butyl alcohol	ND	mg/kg	0.050	EPA-8260	ND		2
Diisopropyl ether	ND	mg/kg	0.0050	EPA-8260	ND		2
Ethanol	ND	mg/kg	1.0	EPA-8260	ND		2
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		2
1,2-Dichloroethane-d4 (Surrogate)	81.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	115	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	116	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	123	%	81 - 117 (LCL - UCL)	EPA-8260		S09	2
4-Bromofluorobenzene (Surrogate)	107	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	253	%	74 - 121 (LCL - UCL)	EPA-8260		S09	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/27/10 15:45	MCQ	MS-V3	25	BTH1752
2	EPA-8260	08/25/10	08/26/10 16:01	MCQ	MS-V3	1	BTH1752

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11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-12	Client Sample Name: 1156, MW-1B-5, 8/17/2010 9:00:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	210	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/25/10	08/25/10 00:33	JJH	GC-V8	25	BTH1748

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-12	Client Sample Name: 1156, MW-1B-5, 8/17/2010 9:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	31	mg/kg	20	Luft/TPHd	ND	A01,Z1a	1
Tetracosane (Surrogate)	78.2	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1a	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 17:00	MWB	GC-5	9.836	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-13	Client Sample Name: 1156, MW-1B-10, 8/17/2010 9:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	3.0	mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Ethylbenzene	57	mg/kg	2.5	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Toluene	9.8	mg/kg	2.5	EPA-8260	ND	A01	1
Total Xylenes	220	mg/kg	5.0	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	2.5	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	25	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	500	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	94.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 06:48	MCQ	MS-V3	500	BTH1752



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11050 White Rock Rd, Suite 110
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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-13	Client Sample Name: 1156, MW-1B-10, 8/17/2010 9:10:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	113	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/24/10	08/25/10 01:03	JJH	GC-V8	1	BTH1336

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-13	Client Sample Name: 1156, MW-1B-10, 8/17/2010 9:10:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	2.7	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	67.4	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 17:14	MWB	GC-5	0.990	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-14	Client Sample Name: 1156, MW-1B-15, 8/17/2010 9:20:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Ethylbenzene	38	mg/kg	2.5	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Toluene	6.2	mg/kg	2.5	EPA-8260	ND	A01	1
Total Xylenes	150	mg/kg	5.0	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	2.5	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	25	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	2.5	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	500	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	94.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	94.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 07:40	MCQ	MS-V3	500	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-14	Client Sample Name: 1156, MW-1B-15, 8/17/2010 9:20:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	270	mg/kg	50	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	112	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/25/10	08/28/10 13:30	JJH	GC-V8	50	BTH1748



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-14	Client Sample Name: 1156, MW-1B-15, 8/17/2010 9:20:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	110	mg/kg	20	Luft/TPHd	ND	A01,A52	1
Tetracosane (Surrogate)	81.2	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 17:28	MWB	GC-5	9.901	BTH2056



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-15	Client Sample Name: 1156, MW-1B-20, 8/17/2010 9:25:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.23	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.010	EPA-8260	ND	A01	2
1,2-Dichloroethane	ND	mg/kg	0.010	EPA-8260	ND	A01	2
Ethylbenzene	2.4	mg/kg	0.12	EPA-8260	ND	A01	1
Methyl t-butyl ether	0.061	mg/kg	0.010	EPA-8260	ND	A01	2
Toluene	0.15	mg/kg	0.010	EPA-8260	ND	A01	2
Total Xylenes	0.88	mg/kg	0.020	EPA-8260	ND	A01	2
t-Amyl Methyl ether	ND	mg/kg	0.010	EPA-8260	ND	A01	2
t-Butyl alcohol	ND	mg/kg	0.10	EPA-8260	ND	A01	2
Diisopropyl ether	ND	mg/kg	0.010	EPA-8260	ND	A01	2
Ethanol	ND	mg/kg	2.0	EPA-8260	ND	A01	2
Ethyl t-butyl ether	ND	mg/kg	0.010	EPA-8260	ND	A01	2
1,2-Dichloroethane-d4 (Surrogate)	80.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	114	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	109	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	126	%	81 - 117 (LCL - UCL)	EPA-8260		A19,S09	2
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	200	%	74 - 121 (LCL - UCL)	EPA-8260		A19,S09	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/27/10 16:11	MCQ	MS-V3	25	BTH1752
2	EPA-8260	08/25/10	08/26/10 16:26	MCQ	MS-V3	2	BTH1752

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-15	Client Sample Name: 1156, MW-1B-20, 8/17/2010 9:25:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	200	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	100	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/25/10	08/28/10 14:01	JJH	GC-V8	25	BTH1748



Delta Environmental Consultants, Inc.
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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-15	Client Sample Name: 1156, MW-1B-20, 8/17/2010 9:25:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	200	Luft/TPHd	ND	A01,Z1a	1
Tetracosane (Surrogate)	35.5	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1a	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 17:43	MWB	GC-5	100	BTH2056



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011659-16	Client Sample Name: 1156, MW-1B-25, 8/17/2010 9:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.012	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	0.0085	mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	0.056	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	104	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	98.2	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/25/10	08/26/10 04:13	MCQ	MS-V3	1	BTH1752

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-16	Client Sample Name: 1156, MW-1B-25, 8/17/2010 9:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	100	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/25/10	08/30/10 11:42	JJH	GC-V8	1	BTH1748



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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011659-16	Client Sample Name: 1156, MW-1B-25, 8/17/2010 9:30:00AM
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Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	74.8	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/25/10	08/31/10 19:37	MWB	GC-5	0.990	BTH2056

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

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: BTH1752						
Benzene	BTH1752-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTH1752-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTH1752-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTH1752-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTH1752-BLK1	ND	mg/kg	0.0050		
Toluene	BTH1752-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTH1752-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTH1752-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTH1752-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTH1752-BLK1	ND	mg/kg	0.0050		
Ethanol	BTH1752-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTH1752-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTH1752-BLK1	89.5	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTH1752-BLK1	102	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTH1752-BLK1	103	%	74 - 121 (LCL - UCL)		



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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		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1752										
Benzene	BTH1752-BS1	LCS	0.12425	0.12500	mg/kg	99.4		70 - 130		
Toluene	BTH1752-BS1	LCS	0.13564	0.12500	mg/kg	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTH1752-BS1	LCS	0.045213	0.050000	mg/kg	90.4		70 - 121		
Toluene-d8 (Surrogate)	BTH1752-BS1	LCS	0.050926	0.050000	mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTH1752-BS1	LCS	0.050421	0.050000	mg/kg	101		74 - 121		



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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	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BTH1752		Used client sample: N								
Benzene	MS	1011454-18	ND	0.12220	0.12500	mg/kg		97.8		70 - 130
	MSD	1011454-18	ND	0.12389	0.12500	mg/kg	1.4	99.1	20	70 - 130
Toluene	MS	1011454-18	ND	0.13014	0.12500	mg/kg		104		70 - 130
	MSD	1011454-18	ND	0.12835	0.12500	mg/kg	1.4	103	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1011454-18	ND	0.045866	0.050000	mg/kg		91.7		70 - 121
	MSD	1011454-18	ND	0.046328	0.050000	mg/kg		92.7		70 - 121
Toluene-d8 (Surrogate)	MS	1011454-18	ND	0.050673	0.050000	mg/kg		101		81 - 117
	MSD	1011454-18	ND	0.050500	0.050000	mg/kg		101		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1011454-18	ND	0.048758	0.050000	mg/kg		97.5		74 - 121
	MSD	1011454-18	ND	0.050874	0.050000	mg/kg		102		74 - 121



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH1336						
Gasoline Range Organics (C4 - C12)	BTH1336-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1336-BLK1	88.8	%		70 - 130 (LCL - UCL)	
QC Batch ID: BTH1748						
Gasoline Range Organics (C4 - C12)	BTH1748-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1748-BLK1	93.8	%		70 - 130 (LCL - UCL)	



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1336										
Gasoline Range Organics (C4 - C12)	BTH1336-BS1	LCS	5.3186	5.0000	mg/kg	106		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1336-BS1	LCS	0.041600	0.040000	mg/kg	104		70 - 130		
QC Batch ID: BTH1748										
Gasoline Range Organics (C4 - C12)	BTH1748-BS1	LCS	5.0013	5.0000	mg/kg	100		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1748-BS1	LCS	0.037100	0.040000	mg/kg	92.8		70 - 130		



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTH1336		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1009676-86	ND	5.1551	5.0000	mg/kg		103		70 - 130
	MSD	1009676-86	ND	5.2650	5.0000	mg/kg	2.1	105	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1009676-86	ND	0.036500	0.040000	mg/kg		91.2		70 - 130
	MSD	1009676-86	ND	0.036700	0.040000	mg/kg		91.8		70 - 130
QC Batch ID: BTH1748		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1011454-09	ND	4.9157	5.0000	mg/kg		98.3		70 - 130
	MSD	1011454-09	ND	5.0214	5.0000	mg/kg	2.1	100	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1011454-09	ND	0.039100	0.040000	mg/kg		97.8		70 - 130
	MSD	1011454-09	ND	0.040400	0.040000	mg/kg		101		70 - 130



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Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH2056						
Diesel Range Organics (C12 - C24)	BTH2056-BLK1	ND	mg/kg	2.0		
Tetracosane (Surrogate)	BTH2056-BLK1	67.2	%	34 - 136 (LCL - UCL)		



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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH2056										
Diesel Range Organics (C12 - C24)	BTH2056-BS1	LCS	12.323	16.611	mg/kg	74.2		50 - 136		
Tetracosane (Surrogate)	BTH2056-BS1	LCS	0.49954	0.66445	mg/kg	75.2		34 - 136		



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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH2056		Used client sample: Y - Description: MW-1B-25, 08/17/2010 09:30								
Diesel Range Organics (C12 - C24)	MS	1011659-16	1.1189	10.839	16.502	mg/kg		58.9		40 - 137
	MSD	1011659-16	1.1189	10.878	16.447	mg/kg	0.7	59.3	30	40 - 137
Tetracosane (Surrogate)	MS	1011659-16	ND	0.58634	0.66007	mg/kg		88.8		34 - 136
	MSD	1011659-16	ND	0.54704	0.65789	mg/kg		83.2		34 - 136



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Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH1746						
Antimony	BTH1746-BLK1	ND	mg/kg	5.0		
Arsenic	BTH1746-BLK1	ND	mg/kg	1.0		
Barium	BTH1746-BLK1	ND	mg/kg	0.50		
Beryllium	BTH1746-BLK1	ND	mg/kg	0.50		
Cadmium	BTH1746-BLK1	ND	mg/kg	0.50		
Chromium	BTH1746-BLK1	ND	mg/kg	0.50		
Cobalt	BTH1746-BLK1	ND	mg/kg	2.5		
Copper	BTH1746-BLK1	ND	mg/kg	1.0		
Lead	BTH1746-BLK1	ND	mg/kg	2.5		
Molybdenum	BTH1746-BLK1	ND	mg/kg	2.5		
Nickel	BTH1746-BLK1	ND	mg/kg	0.50		
Selenium	BTH1746-BLK1	ND	mg/kg	1.0		
Silver	BTH1746-BLK1	ND	mg/kg	0.50		
Thallium	BTH1746-BLK1	ND	mg/kg	5.0		
Vanadium	BTH1746-BLK1	ND	mg/kg	0.50		
Zinc	BTH1746-BLK1	ND	mg/kg	2.5		
QC Batch ID: BTH1757						
Mercury	BTH1757-BLK1	ND	mg/kg	0.16		



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Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1746										
Antimony	BTH1746-BS1	LCS	103.18	100.00	mg/kg	103		75 - 125		
Arsenic	BTH1746-BS1	LCS	10.208	10.000	mg/kg	102		75 - 125		
Barium	BTH1746-BS1	LCS	104.30	100.00	mg/kg	104		75 - 125		
Beryllium	BTH1746-BS1	LCS	10.858	10.000	mg/kg	109		75 - 125		
Cadmium	BTH1746-BS1	LCS	10.543	10.000	mg/kg	105		75 - 125		
Chromium	BTH1746-BS1	LCS	106.23	100.00	mg/kg	106		75 - 125		
Cobalt	BTH1746-BS1	LCS	108.17	100.00	mg/kg	108		75 - 125		
Copper	BTH1746-BS1	LCS	103.58	100.00	mg/kg	104		75 - 125		
Lead	BTH1746-BS1	LCS	111.58	100.00	mg/kg	112		75 - 125		
Molybdenum	BTH1746-BS1	LCS	104.39	100.00	mg/kg	104		75 - 125		
Nickel	BTH1746-BS1	LCS	110.08	100.00	mg/kg	110		75 - 125		
Selenium	BTH1746-BS1	LCS	9.8405	10.000	mg/kg	98.4		75 - 125		
Silver	BTH1746-BS1	LCS	8.9002	10.000	mg/kg	89.0		75 - 125		
Thallium	BTH1746-BS1	LCS	107.06	100.00	mg/kg	107		75 - 125		
Vanadium	BTH1746-BS1	LCS	110.90	100.00	mg/kg	111		75 - 125		
Zinc	BTH1746-BS1	LCS	108.34	100.00	mg/kg	108		75 - 125		
QC Batch ID: BTH1757										
Mercury	BTH1757-BS1	LCS	1.5761	1.5000	mg/kg	105		75 - 125		



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Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTH1746		Used client sample: N								
Antimony	DUP	1011722-03	0.83759	ND		mg/kg			20	A02
	MS	1011722-03	0.83759	51.569	100.00	mg/kg		50.7		16 - 119
	MSD	1011722-03	0.83759	51.311	100.00	mg/kg	0.5	50.5	20	16 - 119
Arsenic	DUP	1011722-03	6.0338	6.3427		mg/kg	5.0		20	
	MS	1011722-03	6.0338	15.003	10.000	mg/kg		89.7		75 - 125
	MSD	1011722-03	6.0338	14.689	10.000	mg/kg	3.6	86.6	20	75 - 125
Barium	DUP	1011722-03	141.16	142.77		mg/kg	1.1		20	
	MS	1011722-03	141.16	215.61	100.00	mg/kg		74.4		75 - 125
	MSD	1011722-03	141.16	216.47	100.00	mg/kg	1.2	75.3	20	75 - 125
Beryllium	DUP	1011722-03	0.21233	ND		mg/kg			20	
	MS	1011722-03	0.21233	10.134	10.000	mg/kg		99.2		75 - 125
	MSD	1011722-03	0.21233	10.135	10.000	mg/kg	0.0	99.2	20	75 - 125
Cadmium	DUP	1011722-03	0.88715	0.86013		mg/kg	3.1		20	
	MS	1011722-03	0.88715	10.441	10.000	mg/kg		95.5		75 - 125
	MSD	1011722-03	0.88715	10.165	10.000	mg/kg	2.9	92.8	20	75 - 125
Chromium	DUP	1011722-03	67.384	67.495		mg/kg	0.2		20	
	MS	1011722-03	67.384	158.11	100.00	mg/kg		90.7		75 - 125
	MSD	1011722-03	67.384	157.85	100.00	mg/kg	0.3	90.5	20	75 - 125
Cobalt	DUP	1011722-03	1.4365	ND		mg/kg			20	
	MS	1011722-03	1.4365	94.366	100.00	mg/kg		92.9		75 - 125
	MSD	1011722-03	1.4365	94.357	100.00	mg/kg	0.0	92.9	20	75 - 125
Copper	DUP	1011722-03	246.35	245.61		mg/kg	0.3		20	
	MS	1011722-03	246.35	337.91	100.00	mg/kg		91.6		75 - 125
	MSD	1011722-03	246.35	338.34	100.00	mg/kg	0.5	92.0	20	75 - 125
Lead	DUP	1011722-03	11.176	11.433		mg/kg	2.3		20	
	MS	1011722-03	11.176	103.26	100.00	mg/kg		92.1		75 - 125
	MSD	1011722-03	11.176	99.978	100.00	mg/kg	3.6	88.8	20	75 - 125
Molybdenum	DUP	1011722-03	61.853	61.756		mg/kg	0.2		20	
	MS	1011722-03	61.853	152.73	100.00	mg/kg		90.9		75 - 125
	MSD	1011722-03	61.853	149.58	100.00	mg/kg	3.5	87.7	20	75 - 125
Nickel	DUP	1011722-03	10.526	10.408		mg/kg	1.1		20	
	MS	1011722-03	10.526	101.07	100.00	mg/kg		90.5		75 - 125
	MSD	1011722-03	10.526	100.89	100.00	mg/kg	0.2	90.4	20	75 - 125
Selenium	DUP	1011722-03	3.4842	3.5276		mg/kg	1.2		20	
	MS	1011722-03	3.4842	14.942	10.000	mg/kg		115		75 - 125
	MSD	1011722-03	3.4842	14.003	10.000	mg/kg	8.5	105	20	75 - 125
Silver	DUP	1011722-03	2.2547	2.2504		mg/kg	0.2		20	
	MS	1011722-03	2.2547	10.429	10.000	mg/kg		81.7		75 - 125
	MSD	1011722-03	2.2547	10.431	10.000	mg/kg	0.0	81.8	20	75 - 125

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Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTH1746		Used client sample: N								
Thallium	DUP	1011722-03	ND	ND		mg/kg			20	
	MS	1011722-03	ND	87.869	100.00	mg/kg		87.9		75 - 125
	MSD	1011722-03	ND	85.853	100.00	mg/kg	2.3	85.9	20	75 - 125
Vanadium	DUP	1011722-03	32.341	32.391		mg/kg	0.2		20	
	MS	1011722-03	32.341	131.94	100.00	mg/kg		99.6		75 - 125
	MSD	1011722-03	32.341	131.83	100.00	mg/kg	0.1	99.5	20	75 - 125
Zinc	DUP	1011722-03	564.18	564.97		mg/kg	0.1		20	
	MS	1011722-03	564.18	642.85	100.00	mg/kg		78.7		75 - 125
	MSD	1011722-03	564.18	643.11	100.00	mg/kg	0.3	78.9	20	75 - 125
QC Batch ID: BTH1757		Used client sample: N								
Mercury	DUP	1011722-03	0.74969	0.78154		mg/kg	4.2		20	
	MS	1011722-03	0.74969	1.4683	0.76923	mg/kg		93.4		85 - 115
	MSD	1011722-03	0.74969	1.5143	0.76923	mg/kg	6.2	99.4	20	85 - 115

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/01/2010 15:32
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

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.
- A02 The difference between duplicate readings is less than the PQL.
- A17 Surrogate not reportable due to sample dilution.
- A19 Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
- A52 Chromatogram not typical of diesel.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- Z1 SAMPLE DILUTED DUE TO HIGH CONCENTRATION OF MOTOR OIL
- Z1a SAMPLE DILUTED DUE TO HIGH CONCENTRATION OF MOTOR OIL.
- Z1b SAMPLES DILUTED DUE TO HIGH CONCENTRATION OF MOTOR OIL.



Date of Report: 09/03/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 1156
BC Work Order: 1011431
Invoice ID: B086257

Enclosed are the results of analyses for samples received by the laboratory on 8/16/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1011431 Page 1 of 2

ConocoPhillips Chain Of Custody Record

BC Laboratories, Inc.
4100 Atlas Court
Bakersfield, CA 93308
(661) 327-4911 (661) 327-1918 fax

ConocoPhillips Site Manager: Shelby Lathrop
INVOICE REMITTANCE ADDRESS:
CONOCOPHILLIPS
Attn: Dee Hutchinson
3611 South Harbor, Suite 200
Santa Ana, CA. 92704

ConocoPhillips SAP Project Number
ConocoPhillips Requisition / Line Number
DATE: 8/19/10
PAGE: 1 of 1

SAMPLING COMPANY: Delta Consultants
ADDRESS: 11050 White Rock Road #110, Rancho Cordova, CA 95670
PROJECT CONTACT (handcopy or PDF keyin to): James Barnard
TELEPHONE: 916-503-1279 FAX: E-MAIL: JBarnard@deltaenv.com
SAMPLER NAME(S) PHONE: Alan Buehler CONSULTANT PROJECT NUMBER: C101156
TURNAROUND TIME (CALENDAR DAYS):
 14 DAYS 7 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS
SPECIAL INSTRUCTIONS OR NOTES: Please CC Alan Buehler (abuehler@deltaenv.com) on reports

CONOCOPHILLIPS SITE NUMBER: 1156
SITE ADDRESS (Street and City): 4276 MacArthur
CONOCOPHILLIPS SITE MANAGER: Terry Grayson
OFF DELIVERABLE TO (SP or Designer): James Barnard
PHONE NO.: 916-503-1279
E-MAIL:
LAB USE ONLY: 10-1134 10-1143

SAMPLER NAME(S) PHONE		CONSULTANT PROJECT NUMBER		REQUESTED ANALYSES		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
Alan Buehler		C101156		8015M - TPHg, TPHd 8260B - BTEX, 8 Oxyg 8260C - BTEX, 8 Oxyg TOG TPHMO		

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF COMT.	8015M - TPHg, TPHd	8260B - BTEX, 8 Oxyg	8260C - BTEX, 8 Oxyg	TOG	TPHMO	TEMPERATURE ON RECEIPT OF
		DATE	TIME								
1	MW-4B-5	8/13/10	10:04	soil		X	X	X	X	T	Various Preservatives Not Field Filtered
2	MW-4B-10		10:16								Various Preservatives Not Field Filtered
3	MW-4B-15		10:25								Various Preservatives Not Field Filtered
4	MW-4B-20		10:30								Various Preservatives Not Field Filtered
5	MW-4B-25		10:36								Various Preservatives Not Field Filtered

Requested by (Signature): Ross Dickey Date: 8/16/10 Time: 1319
Received by (Signature): Ross Dickey Date: 8-16-10 Time: 1800
Requested by (Signature): R. Chapman Date: 8-16-10 Time: 2210
Received by (Signature): R. Chapman Date: 8/16/10 Time: 2210

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

Submission #: 10-11431

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 Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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: Soil Sleeve Thermometer ID: 1193 Date/Time: 8/16/10 2210
 Temperature: A 5.1 °C / C 5.1 °C Analyst Init: JRW

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										
3oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA 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 508/608/808										
QT EPA 515.1/815										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 545										
QT EPA 549										
QT EPA 631										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: 8 Date/Time: 8/16/10 2210
 A = Actual C = Corrected



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1011431-01	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: MW-4B-5 Sampled By: DECR	Receive Date: 08/16/2010 22:10 Sampling Date: 08/13/2010 10:04 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): MW-4B Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

1011431-02	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: MW-4B-10 Sampled By: DECR	Receive Date: 08/16/2010 22:10 Sampling Date: 08/13/2010 10:16 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): MW-4B Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1011431-03	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: MW-4B-15 Sampled By: DECR	Receive Date: 08/16/2010 22:10 Sampling Date: 08/13/2010 10:25 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): MW-4B Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1011431-04	COC Number: --- Project Number: 1156 Sampling Location: --- Sampling Point: MW-4B-20 Sampled By: DECR	Receive Date: 08/16/2010 22:10 Sampling Date: 08/13/2010 10:30 Sample Depth: --- Sample Matrix: Solids Delivery Work Order: Global ID: Location ID (FieldPoint): MW-4B Matrix: SO Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1011431-05

COC Number: ---
Project Number: 1156
Sampling Location: ---
Sampling Point: MW-4B-25
Sampled By: DECR

Receive Date: 08/16/2010 22:10
Sampling Date: 08/13/2010 10:36
Sample Depth: ---
Sample Matrix: Solids
Delivery Work Order:
Global ID:
Location ID (FieldPoint): MW-4B
Matrix: SO
Sample QC Type (SACode): CS
Cooler ID:



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011431-01		Client Sample Name: 1156, MW-4B-5, 8/13/2010 10:04:00AM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ND	mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.025	mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
Toluene	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
Ethyl t-butyl ether	ND	mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	97.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	92.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/20/10	08/22/10 15:16	MCQ	MS-V3	1	BTH1403

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-01	Client Sample Name: 1156, MW-4B-5, 8/13/2010 10:04:00AM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	77.8	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/19/10	08/20/10 13:21	JJH	GC-V8	1	BTH1336



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-01	Client Sample Name: 1156, MW-4B-5, 8/13/2010 10:04:00AM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	20	Luft/TPHd	ND	A01	1
Tetracosane (Surrogate)	0	%	34 - 136 (LCL - UCL)	Luft/TPHd		A17	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/20/10	08/29/10 23:17	MWB	GC-2	9.833	BTH2015



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011431-02	Client Sample Name: 1156, MW-4B-10, 8/13/2010 10:16:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethylbenzene	0.43	mg/kg	0.025	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Total Xylenes	0.15	mg/kg	0.050	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	0.25	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.025	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	102	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	99.3	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/20/10	08/22/10 15:42	MCQ	MS-V3	5	BTH1403

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-02	Client Sample Name: 1156, MW-4B-10, 8/13/2010 10:16:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	15	mg/kg	5.0	Luft	ND	A01	1
TPH - Diesel (FFP)	27	mg/kg	2.0	Luft/FFP	ND		2
TPH - Motor Oil	ND	mg/kg	10	Luft/FFP	ND		2
Tetracosane (Surrogate)	71.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene (FID Surrogate)	100	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/19/10	08/24/10 14:51	JJH	GC-V8	5	BTH1336
2	Luft/FFP	08/20/10	08/30/10 01:00	MWB	GC-2	0.966	BTH2015



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

EPA Method 1664

BCL Sample ID: 1011431-02	Client Sample Name: 1156, MW-4B-10, 8/13/2010 10:16:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Oil and Grease	ND	mg/kg	50	EPA-1664HEM	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-1664HEM	08/24/10	08/24/10 09:00	JAK	MAN-SV	1	BTH1729



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011431-03	Client Sample Name: 1156, MW-4B-15, 8/13/2010 10:25:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethylbenzene	41	mg/kg	0.50	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Toluene	0.89	mg/kg	0.50	EPA-8260	ND	A01	1
Total Xylenes	170	mg/kg	5.0	EPA-8260	ND	A01	2
t-Amyl Methyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	100	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	104	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Surrogate)	90.9	%	70 - 121 (LCL - UCL)	EPA-8260			2
Toluene-d8 (Surrogate)	106	%	81 - 117 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			2
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.3	%	74 - 121 (LCL - UCL)	EPA-8260			2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/20/10	08/22/10 16:08	MCQ	MS-V3	100	BTH1403
2	EPA-8260	08/20/10	08/24/10 20:15	MCQ	MS-V3	500	BTH1403

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-03	Client Sample Name: 1156, MW-4B-15, 8/13/2010 10:25:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	840	mg/kg	500	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	73.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/19/10	08/24/10 15:53	JJH	GC-V8	500	BTH1336

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Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-03	Client Sample Name: 1156, MW-4B-15, 8/13/2010 10:25:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	15	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	79.7	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/20/10	08/30/10 01:25	MWB	GC-2	0.938	BTH2015



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011431-04		Client Sample Name: 1156, MW-4B-20, 8/13/2010 10:30:00AM					
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethylbenzene	0.76	mg/kg	0.50	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Total Xylenes	4.3	mg/kg	1.0	EPA-8260	ND	A01	1
t-Amyl Methyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
t-Butyl alcohol	ND	mg/kg	5.0	EPA-8260	ND	A01	1
Diisopropyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Ethanol	ND	mg/kg	100	EPA-8260	ND	A01	1
Ethyl t-butyl ether	ND	mg/kg	0.50	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	99.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	96.3	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/20/10	08/22/10 16:34	MCQ	MS-V3	100	BTH1403

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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-04	Client Sample Name: 1156, MW-4B-20, 8/13/2010 10:30:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	1.1	mg/kg	1.0	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	94.2	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/19/10	08/20/10 14:53	JJH	GC-V8	1	BTH1336



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-04	Client Sample Name: 1156, MW-4B-20, 8/13/2010 10:30:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	86.4	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/20/10	08/30/10 01:51	MWB	GC-2	1.010	BTH2015



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011431-05 **Client Sample Name:** 1156, MW-4B-25, 8/13/2010 10:36:00AM

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dibromoethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dichloroethane	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Ethylbenzene	0.39	mg/kg	0.12	EPA-8260	ND	A01	1
Methyl t-butyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Toluene	ND	mg/kg	0.12	EPA-8260	ND	A01	1
Total Xylenes	2.4	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
Ethyl t-butyl ether	ND	mg/kg	0.12	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrogate)	96.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/20/10	08/24/10 20:41	MCQ	MS-V3	25	BTH1403

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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-05	Client Sample Name: 1156, MW-4B-25, 8/13/2010 10:36:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	150	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene (FID Surrogate)	110	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/25/10	08/25/10 16:39	JJH	GC-V8	25	BTH1748

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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011431-05	Client Sample Name: 1156, MW-4B-25, 8/13/2010 10:36:00AM
----------------------------------	---

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	4.4	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogate)	57.8	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	08/20/10	08/30/10 02:16	MWB	GC-2	0.938	BTH2015



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

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: BTH1403						
Benzene	BTH1403-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTH1403-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BTH1403-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BTH1403-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BTH1403-BLK1	ND	mg/kg	0.0050		
Toluene	BTH1403-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BTH1403-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BTH1403-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BTH1403-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BTH1403-BLK1	ND	mg/kg	0.0050		
Ethanol	BTH1403-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BTH1403-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BTH1403-BLK1	100	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTH1403-BLK1	101	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTH1403-BLK1	101	%	74 - 121 (LCL - UCL)		



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

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		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1403										
Benzene	BTH1403-BS1	LCS	0.12051	0.12500	mg/kg	96.4		70 - 130		
Toluene	BTH1403-BS1	LCS	0.12125	0.12500	mg/kg	97.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTH1403-BS1	LCS	0.050225	0.050000	mg/kg	100		70 - 121		
Toluene-d8 (Surrogate)	BTH1403-BS1	LCS	0.050311	0.050000	mg/kg	101		81 - 117		
4-Bromofluorobenzene (Surrogate)	BTH1403-BS1	LCS	0.048491	0.050000	mg/kg	97.0		74 - 121		



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTH1403		Used client sample: N								
Benzene	MS	1011454-10	ND	0.12199	0.12500	mg/kg		97.6		70 - 130
	MSD	1011454-10	ND	0.11835	0.12500	mg/kg	3.0	94.7	20	70 - 130
Toluene	MS	1011454-10	ND	0.13162	0.12500	mg/kg		105		70 - 130
	MSD	1011454-10	ND	0.12445	0.12500	mg/kg	5.6	99.6	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1011454-10	ND	0.050273	0.050000	mg/kg		101		70 - 121
	MSD	1011454-10	ND	0.050318	0.050000	mg/kg		101		70 - 121
Toluene-d8 (Surrogate)	MS	1011454-10	ND	0.051415	0.050000	mg/kg		103		81 - 117
	MSD	1011454-10	ND	0.050549	0.050000	mg/kg		101		81 - 117
4-Bromofluorobenzene (Surrogate)	MS	1011454-10	ND	0.049310	0.050000	mg/kg		98.6		74 - 121
	MSD	1011454-10	ND	0.049800	0.050000	mg/kg		99.6		74 - 121



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH1336						
Gasoline Range Organics (C4 - C12)	BTH1336-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1336-BLK1	88.8	%	70 - 130 (LCL - UCL)		
QC Batch ID: BTH1748						
Gasoline Range Organics (C4 - C12)	BTH1748-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1748-BLK1	93.8	%	70 - 130 (LCL - UCL)		
QC Batch ID: BTH2015						
TPH - Diesel (FFP)	BTH2015-BLK1	ND	mg/kg	2.0		
TPH - Motor Oil	BTH2015-BLK1	ND	mg/kg	10		
Tetracosane (Surrogate)	BTH2015-BLK1	86.6	%	20 - 145 (LCL - UCL)		



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1336										
Gasoline Range Organics (C4 - C12)	BTH1336-BS1	LCS	5.3186	5.0000	mg/kg	106		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1336-BS1	LCS	0.041600	0.040000	mg/kg	104		70 - 130		
QC Batch ID: BTH1748										
Gasoline Range Organics (C4 - C12)	BTH1748-BS1	LCS	5.0013	5.0000	mg/kg	100		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1748-BS1	LCS	0.037100	0.040000	mg/kg	92.8		70 - 130		
QC Batch ID: BTH2015										
TPH - Diesel (FFP)	BTH2015-BS1	LCS	14.229	16.722	mg/kg	85.1		50 - 136		
Tetracosane (Surrogate)	BTH2015-BS1	LCS	0.64863	0.66890	mg/kg	97.0		20 - 145		



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1336		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1009676-86	ND	5.1551	5.0000	mg/kg		103		70 - 130
	MSD	1009676-86	ND	5.2650	5.0000	mg/kg	2.1	105	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1009676-86	ND	0.036500	0.040000	mg/kg		91.2		70 - 130
	MSD	1009676-86	ND	0.036700	0.040000	mg/kg		91.8		70 - 130
QC Batch ID: BTH1748		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1011454-09	ND	4.9157	5.0000	mg/kg		98.3		70 - 130
	MSD	1011454-09	ND	5.0214	5.0000	mg/kg	2.1	100	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1011454-09	ND	0.039100	0.040000	mg/kg		97.8		70 - 130
	MSD	1011454-09	ND	0.040400	0.040000	mg/kg		101		70 - 130
QC Batch ID: BTH2015		Used client sample: Y - Description: MW-4B-5, 08/13/2010 10:04								
TPH - Diesel (FFP)	MS	1011431-01	ND	13.922	16.949	mg/kg		82.1		40 - 137
	MSD	1011431-01	ND	12.477	16.556	mg/kg	8.6	75.4	30	40 - 137
Tetracosane (Surrogate)	MS	1011431-01	ND	0.62976	0.67797	mg/kg		92.9		20 - 145
	MSD	1011431-01	ND	0.54024	0.66225	mg/kg		81.6		20 - 145



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Reported: 09/03/2010 11:29
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Project Number: 4513569988
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Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH2015						
Diesel Range Organics (C12 - C24)	BTH2015-BLK1	ND	mg/kg	2.0		
Tetracosane (Surrogate)	BTH2015-BLK1	86.6	%	34 - 136 (LCL - UCL)		



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH2015										
Diesel Range Organics (C12 - C24)	BTH2015-BS1	LCS	14.229	16.722	mg/kg	85.1		50 - 136		
Tetracosane (Surrogate)	BTH2015-BS1	LCS	0.64863	0.66890	mg/kg	97.0		34 - 136		



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTH2015		Used client sample: Y - Description: MW-4B-5, 08/13/2010 10:04								
Diesel Range Organics (C12 - C24)	MS	1011431-01	ND	13.922	16.949	mg/kg		82.1		40 - 137
	MSD	1011431-01	ND	12.477	16.556	mg/kg	8.6	75.4	30	40 - 137
Tetracosane (Surrogate)	MS	1011431-01	ND	0.62976	0.67797	mg/kg		92.9		34 - 136
	MSD	1011431-01	ND	0.54024	0.66225	mg/kg		81.6		34 - 136

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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH1729						
Oil and Grease	BTH1729-BLK1	ND	mg/kg	50		



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1729										
Oil and Grease	BTH1729-BS1	LCS	706.00	748.00	mg/kg	94.4		59	117	



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BTH1729											
Used client sample: Y - Description: MW-4B-10, 08/13/2010 10:16											
Oil and Grease	DUP	1011431-02	43.000	54.000		mg/kg	22.7		30		
	MS	1009676-90	ND	516.00	748.00	mg/kg		69.0		56 - 111	
	MSD	1009676-90	ND	566.00	748.00	mg/kg	9.2	75.7	30	56 - 111	



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Reported: 09/03/2010 11:29
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

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.



Date of Report: 09/08/2010

Jim Barnard

Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

RE: 1156
BC Work Order: 1011976
Invoice ID: B086463

Enclosed are the results of analyses for samples received by the laboratory on 8/26/2010. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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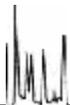
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Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Chain of Custody and Cooler Receipt Form for 1011976 Page 2 of 2

BC LABORATORIES INC.		SAMPLE RECEIPT FORM		Rev. No. 12	06/24/08	Page 1 Of 1
Submission #: <u>10-11976</u>						
SHIPPING INFORMATION Federal Express <input type="checkbox"/> UPS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____				SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____						
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>						
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>						
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.95</u> Container: <u>None</u> Thermometer ID: <u>#103</u>		Date/Time: <u>8/26/10</u>		Analyst Init: <u>2135</u>
		Temperature: A <u>1.5</u> °C / C <u>1.5</u> °C				

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	BC									
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	A10									
QT EPA 413.1, 413.2, 413.1										
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 517										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	8015	D								
8 OZ. JAR										
12 OZ. JAR										
SOH. SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
 Sample Numbering Completed By: JW Date/Time: 8/26/10 2310
 A = Actual / C = Corrected [H:\DOCS\WP8\LAB_DOCS\FORMS\SAMREC2.WPD]



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/08/2010 13:30
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

1011976-01

COC Number: ---
Project Number: 1156
Sampling Location: ---
Sampling Point: Composite H2O
Sampled By: DECR

Receive Date: 08/26/2010 21:00
Sampling Date: 08/25/2010 12:15
Sample Depth: ---
Sample Matrix: Water
Delivery Work Order:
Global ID:
Location ID (FieldPoint): COMP
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:



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Reported: 09/08/2010 13:30
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011976-01	Client Sample Name: 1156, Composite H2O, 8/25/2010 12:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	2.6	ug/L	0.50	EPA-8260	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	EPA-8260	ND		1
Ethylbenzene	19	ug/L	0.50	EPA-8260	ND		1
Methyl t-butyl ether	76	ug/L	0.50	EPA-8260	ND		1
Toluene	3.3	ug/L	0.50	EPA-8260	ND		1
Total Xylenes	160	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
Ethyl t-butyl ether	ND	ug/L	0.50	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrogate)	88.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	101	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate)	105	%	86 - 115 (LCL - UCL)	EPA-8260			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8260	08/30/10	08/31/10 03:59	KEA	MS-V12	1	BTH1973



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Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 1011976-01	Client Sample Name: 1156, Composite H2O, 8/25/2010 12:15:00PM						
Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organics (C4 - C12)	1100	ug/L	50	Luft	ND		1
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft	08/25/10	08/30/10 15:08	jjh	GC-V4	1	BTH1710



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Reported: 09/08/2010 13:30
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Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID: 1011976-01	Client Sample Name: 1156, Composite H2O, 8/25/2010 12:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics (C12 - C24)	770	ug/L	50	Luft/TPHd	ND	A52	1
Tetracosane (Surrogate)	94.9	%	28 - 139 (LCL - UCL)	Luft/TPHd			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	Luft/TPHd	09/07/10	09/07/10 16:02	MWB	GC-5	1	BT10371



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Project Manager: Jim Barnard

Water Analysis (Metals)

BCL Sample ID: 1011976-01	Client Sample Name: 1156, Composite H2O, 8/25/2010 12:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Total Antimony	ND	ug/L	100	EPA-6010B	ND		1
Total Arsenic	ND	ug/L	50	EPA-6010B	ND		1
Total Barium	69	ug/L	10	EPA-6010B	ND		1
Total Beryllium	ND	ug/L	10	EPA-6010B	ND		1
Total Cadmium	ND	ug/L	10	EPA-6010B	ND		1
Total Chromium	12	ug/L	10	EPA-6010B	ND		1
Total Cobalt	ND	ug/L	50	EPA-6010B	ND		1
Total Copper	16	ug/L	10	EPA-6010B	ND		1
Total Lead	ND	ug/L	50	EPA-6010B	ND		1
Total Mercury	ND	ug/L	0.20	EPA-7470A	ND		2
Total Molybdenum	ND	ug/L	50	EPA-6010B	ND		1
Total Nickel	15	ug/L	10	EPA-6010B	ND		1
Total Selenium	ND	ug/L	100	EPA-6010B	ND		1
Total Silver	ND	ug/L	10	EPA-6010B	ND		1
Total Thallium	ND	ug/L	100	EPA-6010B	ND		1
Total Vanadium	29	ug/L	10	EPA-6010B	ND		1
Total Zinc	ND	ug/L	50	EPA-6010B	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-6010B	08/30/10	08/31/10 09:11	ARD	PE-OP2	1	BTH1960
2	EPA-7470A	08/31/10	09/01/10 10:40	MEV	CETAC1	1	BTH2080

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Project Number: 4513569988
Project Manager: Jim Barnard

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: BTH1973						
Benzene	BTH1973-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BTH1973-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BTH1973-BLK1	ND	ug/L	0.50		
Ethylbenzene	BTH1973-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BTH1973-BLK1	ND	ug/L	0.50		
Toluene	BTH1973-BLK1	ND	ug/L	0.50		
Total Xylenes	BTH1973-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BTH1973-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BTH1973-BLK1	ND	ug/L	10		
Diisopropyl ether	BTH1973-BLK1	ND	ug/L	0.50		
Ethanol	BTH1973-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BTH1973-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BTH1973-BLK1	105	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BTH1973-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BTH1973-BLK1	97.2	%	86 - 115 (LCL - UCL)		

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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		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1973										
Benzene	BTH1973-BS1	LCS	27.570	25.000	ug/L	110		70 - 130		
Toluene	BTH1973-BS1	LCS	26.390	25.000	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BTH1973-BS1	LCS	10.320	10.000	ug/L	103		76 - 114		
Toluene-d8 (Surrogate)	BTH1973-BS1	LCS	10.290	10.000	ug/L	103		88 - 110		
4-Bromofluorobenzene (Surrogate)	BTH1973-BS1	LCS	9.6700	10.000	ug/L	96.7		86 - 115		



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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		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BTH1973		Used client sample: N									
Benzene	MS	1011945-01	ND	26.050	25.000	ug/L		104		70 - 130	
	MSD	1011945-01	ND	25.130	25.000	ug/L	3.6	101	20	70 - 130	
Toluene	MS	1011945-01	ND	26.620	25.000	ug/L		106		70 - 130	
	MSD	1011945-01	ND	24.700	25.000	ug/L	7.5	98.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1011945-01	ND	10.330	10.000	ug/L		103		76 - 114	
	MSD	1011945-01	ND	10.400	10.000	ug/L		104		76 - 114	
Toluene-d8 (Surrogate)	MS	1011945-01	ND	10.540	10.000	ug/L		105		88 - 110	
	MSD	1011945-01	ND	10.230	10.000	ug/L		102		88 - 110	
4-Bromofluorobenzene (Surrogate)	MS	1011945-01	ND	9.5200	10.000	ug/L		95.2		86 - 115	
	MSD	1011945-01	ND	9.7200	10.000	ug/L		97.2		86 - 115	

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH1710						
Gasoline Range Organics (C4 - C12)	BTH1710-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1710-BLK1	82.8	%	70 - 130 (LCL - UCL)		



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1710										
Gasoline Range Organics (C4 - C12)	BTH1710-BS1	LCS	998.47	1000.0	ug/L	99.8		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BTH1710-BS1	LCS	35.908	40.000	ug/L	89.8		70 - 130		



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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTH1710		Used client sample: N								
Gasoline Range Organics (C4 - C12)	MS	1009676-97	ND	1010.8	1000.0	ug/L		101		70 - 130
	MSD	1009676-97	ND	1036.6	1000.0	ug/L	2.5	104	20	70 - 130
a,a,a-Trifluorotoluene (FID Surrogate)	MS	1009676-97	ND	36.332	40.000	ug/L		90.8		70 - 130
	MSD	1009676-97	ND	35.878	40.000	ug/L		89.7		70 - 130



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Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTI0371						
Diesel Range Organics (C12 - C24)	BTI0371-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	BTI0371-BLK1	66.1	%	28 - 139 (LCL - UCL)		



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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTI0371										
Diesel Range Organics (C12 - C24)	BTI0371-BS1	LCS	337.55	500.00	ug/L	67.5		48 - 125		
Tetracosane (Surrogate)	BTI0371-BS1	LCS	12.414	20.000	ug/L	62.1		28 - 139		



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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTI0371		Used client sample: N								
Diesel Range Organics (C12 - C24)	MS	1011454-31	ND	310.21	500.00	ug/L		62.0		36 - 130
	MSD	1011454-31	ND	279.06	500.00	ug/L	10.6	55.8	30	36 - 130
Tetracosane (Surrogate)	MS	1011454-31	ND	12.782	20.000	ug/L		63.9		28 - 139
	MSD	1011454-31	ND	11.782	20.000	ug/L		58.9		28 - 139



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Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BTH1960						
Total Antimony	BTH1960-BLK1	ND	ug/L	100		
Total Arsenic	BTH1960-BLK1	ND	ug/L	50		
Total Barium	BTH1960-BLK1	ND	ug/L	10		
Total Beryllium	BTH1960-BLK1	ND	ug/L	10		
Total Cadmium	BTH1960-BLK1	ND	ug/L	10		
Total Chromium	BTH1960-BLK1	ND	ug/L	10		
Total Cobalt	BTH1960-BLK1	ND	ug/L	50		
Total Copper	BTH1960-BLK1	ND	ug/L	10		
Total Lead	BTH1960-BLK1	ND	ug/L	50		
Total Molybdenum	BTH1960-BLK1	ND	ug/L	50		
Total Nickel	BTH1960-BLK1	ND	ug/L	10		
Total Selenium	BTH1960-BLK1	ND	ug/L	100		
Total Silver	BTH1960-BLK1	ND	ug/L	10		
Total Thallium	BTH1960-BLK1	ND	ug/L	100		
Total Vanadium	BTH1960-BLK1	ND	ug/L	10		
Total Zinc	BTH1960-BLK1	ND	ug/L	50		
QC Batch ID: BTH2080						
Total Mercury	BTH2080-BLK1	ND	ug/L	0.20		



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Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BTH1960										
Total Antimony	BTH1960-BS1	LCS	399.15	400.00	ug/L	99.8		85 - 115		
Total Arsenic	BTH1960-BS1	LCS	202.18	200.00	ug/L	101		85 - 115		
Total Barium	BTH1960-BS1	LCS	374.10	400.00	ug/L	93.5		85 - 115		
Total Beryllium	BTH1960-BS1	LCS	196.72	200.00	ug/L	98.4		85 - 115		
Total Cadmium	BTH1960-BS1	LCS	197.47	200.00	ug/L	98.7		85 - 115		
Total Chromium	BTH1960-BS1	LCS	202.03	200.00	ug/L	101		85 - 115		
Total Cobalt	BTH1960-BS1	LCS	200.40	200.00	ug/L	100		85 - 115		
Total Copper	BTH1960-BS1	LCS	395.97	400.00	ug/L	99.0		85 - 115		
Total Lead	BTH1960-BS1	LCS	416.81	400.00	ug/L	104		85 - 115		
Total Molybdenum	BTH1960-BS1	LCS	206.38	200.00	ug/L	103		85 - 115		
Total Nickel	BTH1960-BS1	LCS	401.66	400.00	ug/L	100		85 - 115		
Total Selenium	BTH1960-BS1	LCS	194.34	200.00	ug/L	97.2		85 - 115		
Total Silver	BTH1960-BS1	LCS	97.996	100.00	ug/L	98.0		85 - 115		
Total Thallium	BTH1960-BS1	LCS	411.01	400.00	ug/L	103		85 - 115		
Total Vanadium	BTH1960-BS1	LCS	214.86	200.00	ug/L	107		85 - 115		
Total Zinc	BTH1960-BS1	LCS	503.83	500.00	ug/L	101		85 - 115		
QC Batch ID: BTH2080										
Total Mercury	BTH2080-BS1	LCS	1.0125	1.0000	ug/L	101		85 - 115		

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Reported: 09/08/2010 13:30
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Project Manager: Jim Barnard

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BTH1960		Used client sample: Y - Description: Composite H2O, 08/25/2010 12:15								
Total Antimony	DUP	1011976-01	ND	ND		ug/L			20	
	MS	1011976-01	ND	400.82	400.00	ug/L		100		75 - 125
	MSD	1011976-01	ND	407.97	400.00	ug/L	1.8	102	20	75 - 125
Total Arsenic	DUP	1011976-01	ND	ND		ug/L			20	
	MS	1011976-01	ND	218.70	200.00	ug/L		109		75 - 125
	MSD	1011976-01	ND	223.21	200.00	ug/L	2.0	112	20	75 - 125
Total Barium	DUP	1011976-01	69.476	68.470		ug/L	1.5		20	
	MS	1011976-01	69.476	482.36	400.00	ug/L		103		75 - 125
	MSD	1011976-01	69.476	472.92	400.00	ug/L	2.3	101	20	75 - 125
Total Beryllium	DUP	1011976-01	ND	ND		ug/L			20	
	MS	1011976-01	ND	213.85	200.00	ug/L		107		75 - 125
	MSD	1011976-01	ND	212.14	200.00	ug/L	0.8	106	20	75 - 125
Total Cadmium	DUP	1011976-01	ND	ND		ug/L			20	
	MS	1011976-01	ND	209.52	200.00	ug/L		105		75 - 125
	MSD	1011976-01	ND	207.07	200.00	ug/L	1.2	104	20	75 - 125
Total Chromium	DUP	1011976-01	11.678	12.719		ug/L	8.5		20	
	MS	1011976-01	11.678	225.17	200.00	ug/L		107		75 - 125
	MSD	1011976-01	11.678	222.34	200.00	ug/L	1.3	105	20	75 - 125
Total Cobalt	DUP	1011976-01	6.9869	ND		ug/L			20	
	MS	1011976-01	6.9869	217.59	200.00	ug/L		105		75 - 125
	MSD	1011976-01	6.9869	217.22	200.00	ug/L	0.2	105	20	75 - 125
Total Copper	DUP	1011976-01	15.780	16.563		ug/L	4.8		20	
	MS	1011976-01	15.780	443.34	400.00	ug/L		107		75 - 125
	MSD	1011976-01	15.780	438.57	400.00	ug/L	1.1	106	20	75 - 125
Total Lead	DUP	1011976-01	5.8465	ND		ug/L			20	
	MS	1011976-01	5.8465	434.33	400.00	ug/L		107		75 - 125
	MSD	1011976-01	5.8465	445.06	400.00	ug/L	2.5	110	20	75 - 125
Total Molybdenum	DUP	1011976-01	8.5765	ND		ug/L			20	
	MS	1011976-01	8.5765	227.01	200.00	ug/L		109		75 - 125
	MSD	1011976-01	8.5765	230.42	200.00	ug/L	1.5	111	20	75 - 125
Total Nickel	DUP	1011976-01	15.043	15.942		ug/L	5.8		20	
	MS	1011976-01	15.043	436.66	400.00	ug/L		105		75 - 125
	MSD	1011976-01	15.043	431.55	400.00	ug/L	1.2	104	20	75 - 125
Total Selenium	DUP	1011976-01	ND	ND		ug/L			20	
	MS	1011976-01	ND	204.28	200.00	ug/L		102		75 - 125
	MSD	1011976-01	ND	214.97	200.00	ug/L	5.1	107	20	75 - 125
Total Silver	DUP	1011976-01	ND	ND		ug/L			20	
	MS	1011976-01	ND	103.60	100.00	ug/L		104		75 - 125
	MSD	1011976-01	ND	102.47	100.00	ug/L	1.1	102	20	75 - 125

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Delta Environmental Consultants, Inc.
11050 White Rock Rd, Suite 110
Rancho Cordova, CA 95670

Reported: 09/08/2010 13:30
Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Qualls
									RPD	Percent Recovery	
QC Batch ID: BTH1960		Used client sample: Y - Description: Composite H2O, 08/25/2010 12:15									
Total Thallium	DUP	1011976-01	ND	ND		ug/L			20		
	MS	1011976-01	ND	432.55	400.00	ug/L		108		75 - 125	
	MSD	1011976-01	ND	437.68	400.00	ug/L	1.2	109	20	75 - 125	
Total Vanadium	DUP	1011976-01	28.894	30.472		ug/L	5.3		20		
	MS	1011976-01	28.894	264.80	200.00	ug/L		118		75 - 125	
	MSD	1011976-01	28.894	264.09	200.00	ug/L	0.3	118	20	75 - 125	
Total Zinc	DUP	1011976-01	48.023	ND		ug/L			20		
	MS	1011976-01	48.023	580.81	500.00	ug/L		107		75 - 125	
	MSD	1011976-01	48.023	573.01	500.00	ug/L	1.5	105	20	75 - 125	
QC Batch ID: BTH2080		Used client sample: N									
Total Mercury	DUP	1011842-02	ND	ND		ug/L			20		
	MS	1011842-02	ND	0.94750	1.0000	ug/L		94.8		70 - 130	
	MSD	1011842-02	ND	0.95500	1.0000	ug/L	0.8	95.5	20	70 - 130	

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Reported: 09/08/2010 13:30
Project: 1156
Project Number: 4513569988
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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
- A52 Chromatogram not typical of diesel.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.

October 01, 2010

LABORATORY REPORT

Client:

Delta Environmental Consultant Rancho Cordova
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670
Attn: Jim Barnard

Work Order: LTI0122
Project Name: CL01156
Project Number: 1156 Oakland
Date Received: 09/15/10

TestAmerica Los Angeles certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the Corrective Action Report. NELAC Certification Number for TestAmerica Los Angeles is E87652. The test results listed within this Laboratory Report pertain only to the samples tested at TestAmerica Los Angeles, unless otherwise indicated. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 714-258-8610.

CASE NARRATIVE

This report was amended on September 29, 2010 to include 2-Propanol (IPA) per client request by email on September 28, 2010

This report was amended on October 1, 2010 to include a list of 8 additional compounds requested by email on September 29, 2010. Sample # 2 is a duplicate of Sample # 1. The 8 additional compounds were analyzed from the duplicate summa can # 2.

Approved By:



Beth Riley
Project Manager

Delta Environmental Consultant Rancho Cordova
11050 White Rock Road, Suite 110
Rancho Cordova, CA 95670
Jim Barnard

Work Order: LTI0122
Project: CL01156
Project Number: 1156 Oakland

Received: 09/15/10 10:30
Reported: 10/01/10 08:53

<u>SAMPLE IDENTIFICATION</u>	<u>LAB NUMBER</u>	<u>COLLECTION</u>	<u>MATRIX</u>	<u>CONTAINER TYPE</u>
SVW-1-1	LTI0122-01	09/08/10 10:33	Air	Passivated Canister
SVW-1-2	LTI0122-02	09/08/10 10:48	Air	Passivated Canister
SVW-2-1	LTI0122-03	09/08/10 13:36	Air	Passivated Canister
SVW-2-2	LTI0122-04	09/08/10 13:43	Air	Passivated Canister
SVW-3-1	LTI0122-05	09/08/10 15:49	Air	Passivated Canister
SVW-3-2	LTI0122-06	09/08/10 15:56	Air	Passivated Canister
SVW-5-1	LTI0122-07	09/08/10 14:47	Air	Passivated Canister
SVW-5-2	LTI0122-08	09/08/10 14:54	Air	Passivated Canister
SVW-6-1	LTI0122-09	09/09/10 08:28	Air	Passivated Canister
SVW-6-2	LTI0122-10	09/09/10 08:36	Air	Passivated Canister

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11050 White Rock Road, Suite 110
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Work Order: LTI0122
Project: CL01156
Project Number: 1156 Oakland

Received: 09/15/10 10:30
Reported: 10/01/10 08:53

CORRECTIVE ACTION REPORT #3,256

Department: GC Volatiles

Date: 09/27/2010

Method: ASTM D1946

Matrix: Air

QC Batch: 10I0145

Identification and Definition of Problem:

The Total Fixed Gases in sample #s 6, 8, and 10, analyzed by method ASTM D1946, failed (92.8%, 88.1%, and 84.7%, respectively) to meet the acceptance criteria of 95-105%.

Determination of the Cause of the Problem:

Interference from organic compounds, not detected using method ASTM D1946, was suspected.

Corrective Action Taken:

Re-analysis of the samples confirmed original results. Original results were reported.

Quality Assurance:



Maria Friedman

Date: 09/27/2010 04:04 PM

Delta Environmental Consultant Rancho Cordova
 11050 White Rock Road, Suite 110
 Rancho Cordova, CA 95670
 Jim Barnard

Work Order: LTI0122
 Project: CL01156
 Project Number: 1156 Oakland

Received: 09/15/10 10:30
 Reported: 10/01/10 08:53

ANALYTICAL REPORT

Analyte	Data			MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC
	Result	Qualifiers	Units							Batch
Sample ID: LTI0122-01 (SVW-1-1 - Air)							Sampled: 09/08/10 10:33			
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS										
Benzene	ND	BH	ug/m3	11	22	2.3	09/21/10 08:06	MSA	AA	1010164
Ethylbenzene	ND	BH	ug/m3	9.9	20	2.3	09/21/10 08:06	MSA	AA	1010164
2-Propanol	ND	BH	ug/m3	22	56	2.3	09/21/10 08:06	MSA	AA	1010164
Toluene	ND	BH	ug/m3	8.6	17	2.3	09/21/10 08:06	MSA	AA	1010164
TPH as Gasoline	4700	BH	ug/m3	1900	4700	2.3	09/21/10 08:06	MSA	AA	1010164
m,p-Xylene	ND	BH	ug/m3	20	40	2.3	09/21/10 08:06	MSA	AA	1010164
o-Xylene	ND	BH	ug/m3	9.9	20	2.3	09/21/10 08:06	MSA	AA	1010164
Xylenes, total	ND	BH	ug/m3	9.9	20	2.3	09/21/10 08:06	MSA	AA	1010164
<i>Surr: 4-Bromofluorobenzene (70-130%)</i>	<i>92 %</i>	<i>BH</i>					09/21/10 08:06	MSA	AA	1010164
<i>Surr: 1,2-Dichloroethane-d4 (70-130%)</i>	<i>129 %</i>	<i>BH</i>					09/21/10 08:06	MSA	AA	1010164
<i>Surr: Toluene-d8 (70-130%)</i>	<i>96 %</i>	<i>BH</i>					09/21/10 08:06	MSA	AA	1010164

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Work Order: LTI0122
 Project: CL01156
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Received: 09/15/10 10:30
 Reported: 10/01/10 08:53

ANALYTICAL REPORT

Analyte	Data		Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC
	Result	Qualifiers								Batch
Sample ID: LTI0122-02 (SVW-1-2 - Air)							Sampled: 09/08/10 10:48			
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS										
tert-Butyl alcohol	ND	BH	ug/m3	43	92	2.0	09/30/10 07:17	MSB	AA	1010236
1,2-Dibromoethane (EDB)	ND	BH	ug/m3	16	31	2.0	09/30/10 07:17	MSB	AA	1010236
1,2-Dichloroethane	ND	BH	ug/m3	12	25	2.0	09/30/10 07:17	MSB	AA	1010236
Ethanol	ND	BH	ug/m3	76	190	2.0	09/30/10 07:17	MSB	AA	1010236
tert-Amyl methyl ether (TAME)	ND	BH	ug/m3	4.2	17	2.0	09/30/10 07:17	MSB	AA	1010236
Ethyl tert-butyl ether (ETBE)	ND	BH	ug/m3	8.5	17	2.0	09/30/10 07:17	MSB	AA	1010236
Diisopropyl ether (DIPE)	ND	BH	ug/m3	8.5	17	2.0	09/30/10 07:17	MSB	AA	1010236
Methyl tert-butyl ether (MTBE)	ND	BH	ug/m3	7.3	15	2.0	09/30/10 07:17	MSB	AA	1010236

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Work Order: LTI0122
 Project: CL01156
 Project Number: 1156 Oakland

Received: 09/15/10 10:30
 Reported: 10/01/10 08:53

ANALYTICAL REPORT

Analyte	Data		Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC
	Result	Qualifiers								Batch
Sample ID: LTI0122-03 (SVW-2-1 - Air)							Sampled: 09/08/10 13:36			
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS										
Benzene	ND	BH	ug/m3	9900	20000	2100	09/21/10 08:44	MSA	AA	10I0164
Ethylbenzene	35000	BH	ug/m3	8900	18000	2100	09/21/10 08:44	MSA	AA	10I0164
2-Propanol	ND	BH	ug/m3	20000	51000	2100	09/21/10 08:44	MSA	AA	10I0164
Toluene	19000	BH	ug/m3	7800	16000	2100	09/21/10 08:44	MSA	AA	10I0164
TPH as Gasoline	78000000	BH	ug/m3	1700000	4200000	2100	09/21/10 08:44	MSA	AA	10I0164
m,p-Xylene	66000	BH	ug/m3	18000	36000	2100	09/21/10 08:44	MSA	AA	10I0164
o-Xylene	33000	BH	ug/m3	8900	18000	2100	09/21/10 08:44	MSA	AA	10I0164
Xylenes, total	99000	BH	ug/m3	8900	18000	2100	09/21/10 08:44	MSA	AA	10I0164
Surr: 4-Bromofluorobenzene (70-130%)	91 %	BH					09/21/10 08:44	MSA	AA	10I0164
Surr: 1,2-Dichloroethane-d4 (70-130%)	111 %	BH					09/21/10 08:44	MSA	AA	10I0164
Surr: Toluene-d8 (70-130%)	101 %	BH					09/21/10 08:44	MSA	AA	10I0164
tert-Butyl alcohol	ND	BH	ug/m3	44000	94000	2100	09/30/10 04:18	MSB	AA	10I0236
1,2-Dibromoethane (EDB)	ND	BH	ug/m3	16000	32000	2100	09/30/10 04:18	MSB	AA	10I0236
1,2-Dichloroethane	ND	BH	ug/m3	12000	25000	2100	09/30/10 04:18	MSB	AA	10I0236
Ethanol	ND	BH	ug/m3	78000	190000	2100	09/30/10 04:18	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND	BH	ug/m3	4300	17000	2100	09/30/10 04:18	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND	BH	ug/m3	8600	17000	2100	09/30/10 04:18	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND	BH	ug/m3	8600	17000	2100	09/30/10 04:18	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND	BH	ug/m3	7400	15000	2100	09/30/10 04:18	MSB	AA	10I0236

Delta Environmental Consultant Rancho Cordova
 11050 White Rock Road, Suite 110
 Rancho Cordova, CA 95670
 Jim Barnard

Work Order: LTI0122
 Project: CL01156
 Project Number: 1156 Oakland

Received: 09/15/10 10:30
 Reported: 10/01/10 08:53

ANALYTICAL REPORT

Analyte	Result	Data		MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC
		Qualifiers	Units							Batch
Sample ID: LTI0122-05 (SVW-3-1 - Air)							Sampled: 09/08/10 15:49			
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS										
Benzene	110000		ug/m3	12000	23000	2400	09/21/10 09:22	MSA	AA	10I0164
Ethylbenzene	610000		ug/m3	11000	21000	2400	09/21/10 09:22	MSA	AA	10I0164
2-Propanol	ND		ug/m3	24000	60000	2400	09/21/10 09:22	MSA	AA	10I0164
Toluene	ND		ug/m3	9200	18000	2400	09/21/10 09:22	MSA	AA	10I0164
TPH as Gasoline	2.5E8		ug/m3	2000000	5000000	2400	09/21/10 09:22	MSA	AA	10I0164
m,p-Xylene	820000		ug/m3	21000	42000	2400	09/21/10 09:22	MSA	AA	10I0164
o-Xylene	ND		ug/m3	11000	21000	2400	09/21/10 09:22	MSA	AA	10I0164
Xylenes, total	820000		ug/m3	11000	21000	2400	09/21/10 09:22	MSA	AA	10I0164
Surr: 4-Bromofluorobenzene (70-130%)	109 %						09/21/10 09:22	MSA	AA	10I0164
Surr: 1,2-Dichloroethane-d4 (70-130%)	136 %	AZ					09/21/10 09:22	MSA	AA	10I0164
Surr: Toluene-d8 (70-130%)	97 %						09/21/10 09:22	MSA	AA	10I0164
tert-Butyl alcohol	ND	BH	ug/m3	52000	110000	2400	09/30/10 05:08	MSB	AA	10I0236
1,2-Dibromoethane (EDB)	ND	BH	ug/m3	19000	37000	2400	09/30/10 05:08	MSB	AA	10I0236
1,2-Dichloroethane	ND	BH	ug/m3	15000	30000	2400	09/30/10 05:08	MSB	AA	10I0236
Ethanol	ND	BH	ug/m3	92000	230000	2400	09/30/10 05:08	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND	BH	ug/m3	5100	20000	2400	09/30/10 05:08	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND	BH	ug/m3	10000	20000	2400	09/30/10 05:08	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND	BH	ug/m3	10000	20000	2400	09/30/10 05:08	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND	BH	ug/m3	8800	18000	2400	09/30/10 05:08	MSB	AA	10I0236

Delta Environmental Consultant Rancho Cordova
 11050 White Rock Road, Suite 110
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 Jim Barnard

Work Order: LTI0122
 Project: CL01156
 Project Number: 1156 Oakland

Received: 09/15/10 10:30
 Reported: 10/01/10 08:53

ANALYTICAL REPORT

Analyte	Result	Data		MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC
		Qualifiers	Units							Batch
Sample ID: LTI0122-07 (SVW-5-1 - Air)							Sampled: 09/08/10 14:47			
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS										
Benzene	540000	BH	ug/m3	18000	36000	3700	09/21/10 10:00	MSA	AA	10I0164
Ethylbenzene	23000	BH,J,DX	ug/m3	16000	32000	3700	09/21/10 10:00	MSA	AA	10I0164
2-Propanol	ND	BH	ug/m3	37000	92000	3700	09/21/10 10:00	MSA	AA	10I0164
Toluene	ND	BH	ug/m3	14000	28000	3700	09/21/10 10:00	MSA	AA	10I0164
TPH as Gasoline	3.2E8	BH	ug/m3	3100000	7600000	3700	09/21/10 10:00	MSA	AA	10I0164
m,p-Xylene	ND	BH	ug/m3	32000	65000	3700	09/21/10 10:00	MSA	AA	10I0164
o-Xylene	ND	BH	ug/m3	16000	32000	3700	09/21/10 10:00	MSA	AA	10I0164
Xylenes, total	ND	BH	ug/m3	16000	32000	3700	09/21/10 10:00	MSA	AA	10I0164
<i>Surr: 4-Bromofluorobenzene (70-130%)</i>	<i>110 %</i>	<i>BH</i>					09/21/10 10:00	MSA	AA	10I0164
<i>Surr: 1,2-Dichloroethane-d4 (70-130%)</i>	<i>126 %</i>	<i>BH</i>					09/21/10 10:00	MSA	AA	10I0164
<i>Surr: Toluene-d8 (70-130%)</i>	<i>97 %</i>	<i>BH</i>					09/21/10 10:00	MSA	AA	10I0164
tert-Butyl alcohol	ND	BH	ug/m3	79000	170000	3700	09/30/10 05:51	MSB	AA	10I0236
1,2-Dibromoethane (EDB)	ND	BH	ug/m3	29000	57000	3700	09/30/10 05:51	MSB	AA	10I0236
1,2-Dichloroethane	ND	BH	ug/m3	23000	45000	3700	09/30/10 05:51	MSB	AA	10I0236
Ethanol	ND	BH	ug/m3	140000	350000	3700	09/30/10 05:51	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND	BH	ug/m3	7800	31000	3700	09/30/10 05:51	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND	BH	ug/m3	16000	31000	3700	09/30/10 05:51	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND	BH	ug/m3	16000	31000	3700	09/30/10 05:51	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND	BH	ug/m3	13000	27000	3700	09/30/10 05:51	MSB	AA	10I0236

Delta Environmental Consultant Rancho Cordova
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Work Order: LTI0122
 Project: CL01156
 Project Number: 1156 Oakland

Received: 09/15/10 10:30
 Reported: 10/01/10 08:53

ANALYTICAL REPORT

Analyte	Result	Data		MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC
		Qualifiers	Units							Batch
Sample ID: LTI0122-09 (SVW-6-1 - Air)							Sampled: 09/09/10 08:28			
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS										
Benzene	100000	BH	ug/m3	24000	49000	5100	09/21/10 10:38	MSA	AA	10I0164
Ethylbenzene	240000	BH	ug/m3	22000	44000	5100	09/21/10 10:38	MSA	AA	10I0164
2-Propanol	ND	BH	ug/m3	50000	130000	5100	09/21/10 10:38	MSA	AA	10I0164
Toluene	ND	BH	ug/m3	19000	38000	5100	09/21/10 10:38	MSA	AA	10I0164
TPH as Gasoline	4.2E8	BH	ug/m3	4200000	10000000	5100	09/21/10 10:38	MSA	AA	10I0164
m,p-Xylene	170000	BH	ug/m3	44000	89000	5100	09/21/10 10:38	MSA	AA	10I0164
o-Xylene	ND	BH	ug/m3	22000	44000	5100	09/21/10 10:38	MSA	AA	10I0164
Xylenes, total	170000	BH	ug/m3	22000	44000	5100	09/21/10 10:38	MSA	AA	10I0164
Surr: 4-Bromofluorobenzene (70-130%)	109 %	BH					09/21/10 10:38	MSA	AA	10I0164
Surr: 1,2-Dichloroethane-d4 (70-130%)	130 %	BH					09/21/10 10:38	MSA	AA	10I0164
Surr: Toluene-d8 (70-130%)	97 %	BH					09/21/10 10:38	MSA	AA	10I0164
tert-Butyl alcohol	ND	BH	ug/m3	110000	230000	5100	09/30/10 06:34	MSB	AA	10I0236
1,2-Dibromoethane (EDB)	ND	BH	ug/m3	39000	78000	5100	09/30/10 06:34	MSB	AA	10I0236
1,2-Dichloroethane	ND	BH	ug/m3	31000	62000	5100	09/30/10 06:34	MSB	AA	10I0236
Ethanol	ND	BH	ug/m3	190000	480000	5100	09/30/10 06:34	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND	BH	ug/m3	11000	43000	5100	09/30/10 06:34	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND	BH	ug/m3	21000	43000	5100	09/30/10 06:34	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND	BH	ug/m3	21000	43000	5100	09/30/10 06:34	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND	BH	ug/m3	18000	37000	5100	09/30/10 06:34	MSB	AA	10I0236

Delta Environmental Consultant Rancho Cordova
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 Jim Barnard

Work Order: LTI0122
 Project: CL01156
 Project Number: 1156 Oakland

Received: 09/15/10 10:30
 Reported: 10/01/10 08:53

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch	
Sample ID: LTI0122-02 (SVW-1-2 - Air)							Sampled: 09/08/10 10:48				
ASTM D1946 - Fixed Gases											
Carbon dioxide	4.4		%(v/v)	0.0040	0.020	2.0	09/17/10 20:03	GC8	EI	1010145	
Carbon monoxide	ND		%(v/v)	0.00061	0.0020	2.0	09/17/10 20:03	GC8	EI	1010145	
Methane	0.00035	J,DX	%(v/v)	0.00012	0.00040	2.0	09/17/10 20:03	GC8	EI	1010145	
Oxygen	11		%(v/v)	0.061	0.40	2.0	09/17/10 20:03	GC8	EI	1010145	

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 Reported: 10/01/10 08:53

ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: LTI0122-04 (SVW-2-2 - Air)							Sampled: 09/08/10 13:43			
ASTM D1946 - Fixed Gases										
Carbon dioxide	14		%(v/v)	0.0040	0.020	2.0	09/17/10 20:22	GC8	EI	1010145
Carbon monoxide	ND		%(v/v)	0.00060	0.0020	2.0	09/17/10 20:22	GC8	EI	1010145
Methane	8.1		%(v/v)	0.00012	0.00040	2.0	09/17/10 20:22	GC8	EI	1010145
Oxygen	1.3		%(v/v)	0.060	0.40	2.0	09/17/10 20:22	GC8	EI	1010145

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ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: LTI0122-06 (SVW-3-2 - Air)							Sampled: 09/08/10 15:56			
ASTM D1946 - Fixed Gases										
Carbon dioxide	11		%(v/v)	0.0039	0.020	2.0	09/17/10 20:40	GC8	EI	1010145
Carbon monoxide	ND		%(v/v)	0.00059	0.0020	2.0	09/17/10 20:40	GC8	EI	1010145
Methane	38		%(v/v)	0.00012	0.00039	2.0	09/17/10 20:40	GC8	EI	1010145
Oxygen	1.1		%(v/v)	0.059	0.39	2.0	09/17/10 20:40	GC8	EI	1010145

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ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: LTI0122-08 (SVW-5-2 - Air)							Sampled: 09/08/10 14:54			
ASTM D1946 - Fixed Gases										
Carbon dioxide	13		%(v/v)	0.0039	0.019	1.9	09/17/10 21:26	GC8	EI	1010145
Carbon monoxide	ND		%(v/v)	0.00058	0.0019	1.9	09/17/10 21:26	GC8	EI	1010145
Methane	7.5		%(v/v)	0.00012	0.00039	1.9	09/17/10 21:26	GC8	EI	1010145
Oxygen	1.4		%(v/v)	0.058	0.39	1.9	09/17/10 21:26	GC8	EI	1010145

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ANALYTICAL REPORT

Analyte	Result	Data Qualifiers	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: LTI0122-10 (SVW-6-2 - Air)							Sampled: 09/09/10 08:36			
ASTM D1946 - Fixed Gases										
Carbon dioxide	16		%(v/v)	0.0040	0.020	2.0	09/17/10 21:44	GC8	EI	1010145
Carbon monoxide	ND		%(v/v)	0.00060	0.0020	2.0	09/17/10 21:44	GC8	EI	1010145
Methane	27		%(v/v)	0.00012	0.00040	2.0	09/17/10 21:44	GC8	EI	1010145
Oxygen	1.1		%(v/v)	0.060	0.40	2.0	09/17/10 21:44	GC8	EI	1010145

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PROJECT QUALITY CONTROL DATA

Blank

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 10I0164-BLK1 (Blank - Air)										
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS										
Benzene	ND		ug/m3	4.8	9.6	1.00	09/20/10 23:40	MSA	AA	10I0164
Ethylbenzene	ND		ug/m3	4.3	8.7	1.00	09/20/10 23:40	MSA	AA	10I0164
2-Propanol	ND		ug/m3	9.8	25	1.00	09/20/10 23:40	MSA	AA	10I0164
Toluene	ND		ug/m3	3.8	7.5	1.00	09/20/10 23:40	MSA	AA	10I0164
TPH as Gasoline	ND		ug/m3	820	2000	1.00	09/20/10 23:40	MSA	AA	10I0164
m,p-Xylene	ND		ug/m3	8.7	17	1.00	09/20/10 23:40	MSA	AA	10I0164
o-Xylene	ND		ug/m3	4.3	8.7	1.00	09/20/10 23:40	MSA	AA	10I0164
Xylenes, total	ND		ug/m3	4.3	8.7	1.00	09/20/10 23:40	MSA	AA	10I0164
<i>Surr: 4-Bromofluorobenzene (70-130%)</i>	<i>93%</i>						09/20/10 23:40	MSA	AA	10I0164
<i>Surr: 1,2-Dichloroethane-d4 (70-130%)</i>	<i>117%</i>						09/20/10 23:40	MSA	AA	10I0164
<i>Surr: Toluene-d8 (70-130%)</i>	<i>99%</i>						09/20/10 23:40	MSA	AA	10I0164

Sample ID: 10I0236-BLK1 (Blank - Air)

EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS

tert-Butyl alcohol	ND		ug/m3	21	45	1.00	09/29/10 19:20	MSB	AA	10I0236
1,2-Dibromoethane (EDB)	ND		ug/m3	7.7	15	1.00	09/29/10 19:20	MSB	AA	10I0236
1,2-Dichloroethane	ND		ug/m3	6.1	12	1.00	09/29/10 19:20	MSB	AA	10I0236
Ethanol	ND		ug/m3	38	94	1.00	09/29/10 19:20	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND		ug/m3	2.1	8.4	1.00	09/29/10 19:20	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND		ug/m3	4.2	8.4	1.00	09/29/10 19:20	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND		ug/m3	4.2	8.4	1.00	09/29/10 19:20	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND		ug/m3	3.6	7.2	1.00	09/29/10 19:20	MSB	AA	10I0236

Blank - Cont.

Analyte	Result	Data Qualifier	Units	MDL	RL	Dilution	Date Analyzed	Instrument	Analyst	QC Batch
Sample ID: 10I0145-BLK1 (Blank - Air)										
ASTM D1946 - Fixed Gases										
Carbon dioxide	ND		%(v/v)	0.0020	0.010	1.00	09/17/10 11:49	GC8	EI	10I0145
Carbon monoxide	ND		%(v/v)	0.00030	0.0010	1.00	09/17/10 11:49	GC8	EI	10I0145
Methane	ND		%(v/v)	0.000060	0.00020	1.00	09/17/10 11:49	GC8	EI	10I0145
Oxygen	ND		%(v/v)	0.030	0.20	1.00	09/17/10 11:49	GC8	EI	10I0145

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Work Order: LTI0122
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PROJECT QUALITY CONTROL DATA

LCS

Analyte	Result	Data		RL	Dilution	Spike		Target Range	Instrument	Date Analyzed	QC Batch
		Qualifiers	Units			Conc	% Rec				
Sample ID: 10I0164-BS1 (LCS - Air)											
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS											
Benzene	149		ug/m3	9.6	1.00	169	88%	70 - 130	MSA	09/20/10 22:26	10I0164
Ethylbenzene	214		ug/m3	8.7	1.00	230	93%	70 - 130	MSA	09/20/10 22:26	10I0164
2-Propanol	119		ug/m3	25	1.00	119	100%	70 - 130	MSA	09/20/10 22:26	10I0164
Toluene	178		ug/m3	7.5	1.00	202	88%	70 - 130	MSA	09/20/10 22:26	10I0164
TPH as Gasoline	50200		ug/m3	2000	1.00	40900	123%	70 - 130	MSA	09/20/10 21:11	10I0164
m,p-Xylene	419		ug/m3	17	1.00	434	96%	70 - 130	MSA	09/20/10 22:26	10I0164
o-Xylene	177		ug/m3	8.7	1.00	228	78%	70 - 130	MSA	09/20/10 22:26	10I0164
Xylenes, total	596		ug/m3	8.7	1.00	651	91%	70 - 130	MSA	09/20/10 22:26	10I0164
Surr: 4-Bromofluorobenzene	327		ug/m3		1.00	358	91%	70 - 130	MSA	09/20/10 22:26	10I0164
Surr: 1,2-Dichloroethane-d4	211		ug/m3		1.00	211	100%	70 - 130	MSA	09/20/10 22:26	10I0164
Surr: Toluene-d8	203		ug/m3		1.00	205	99%	70 - 130	MSA	09/20/10 22:26	10I0164

Sample ID: 10I0236-BS1 (LCS - Air)

EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS

tert-Butyl alcohol	845		ug/m3	45	1.00	758	112%	70 - 130	MSB	09/29/10 13:08	10I0236
1,2-Dibromoethane (EDB)	346		ug/m3	15	1.00	384	90%	70 - 130	MSB	09/29/10 17:25	10I0236
1,2-Dichloroethane	206		ug/m3	12	1.00	215	96%	70 - 130	MSB	09/29/10 17:25	10I0236
Ethanol	496		ug/m3	94	1.00	471	105%	70 - 130	MSB	09/29/10 13:08	10I0236
tert-Amyl methyl ether (TAME)	230		ug/m3	8.4	1.00	209	110%	70 - 130	MSB	09/29/10 13:08	10I0236
Ethyl tert-butyl ether (ETBE)	224		ug/m3	8.4	1.00	209	107%	70 - 130	MSB	09/29/10 13:08	10I0236
Diisopropyl ether (DIPE)	223		ug/m3	8.4	1.00	209	107%	70 - 130	MSB	09/29/10 13:08	10I0236
Methyl tert-butyl ether (MTBE)	148		ug/m3	7.2	1.00	193	77%	70 - 130	MSB	09/29/10 17:25	10I0236

LCS - Cont.

Analyte	Result	Data		RL	Dilution	Spike		Target Range	Instrument	Date Analyzed	QC Batch
		Qualifiers	Units			Conc	% Rec				
Sample ID: 10I0145-BS1 (LCS - Air)											
ASTM D1946 - Fixed Gases											
Carbon dioxide	1.02		%(v/v)	0.010	1.00	0.998	102%	80 - 120	GC8	09/17/10 10:24	10I0145
Carbon monoxide	0.0507		%(v/v)	0.0010	1.00	0.0455	111%	80 - 120	GC8	09/17/10 10:24	10I0145
Methane	0.0576		%(v/v)	0.00020	1.00	0.0500	115%	80 - 120	GC8	09/17/10 10:24	10I0145
Oxygen	5.43		%(v/v)	0.20	1.00	4.98	109%	80 - 120	GC8	09/17/10 10:24	10I0145

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Work Order: LTI0122
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Received: 09/15/10 10:30
Reported: 10/01/10 08:53

PROJECT QUALITY CONTROL DATA

LCS Dup

Analyte	Result	Data		RL	Dilution	Spike		Target		RPD	Limit	Date Analyzed	QC Batch
		Qualifiers	Units			Conc	% Rec	Range					
Sample ID: 10I0164-BSD1 (LCS Dup - Air)													
EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS													
Benzene	151		ug/m3	9.6	1.00	169	89%	70 - 130	0.9	25	09/20/10 23:04	10I0164	
Ethylbenzene	208		ug/m3	8.7	1.00	230	91%	70 - 130	3	25	09/20/10 23:04	10I0164	
2-Propanol	127		ug/m3	25	1.00	119	107%	70 - 130	6	25	09/20/10 23:04	10I0164	
Toluene	182		ug/m3	7.5	1.00	202	90%	70 - 130	2	25	09/20/10 23:04	10I0164	
TPH as Gasoline	50100		ug/m3	2000	1.00	40900	122%	70 - 130	0.2	25	09/20/10 21:48	10I0164	
m,p-Xylene	411		ug/m3	17	1.00	434	95%	70 - 130	2	25	09/20/10 23:04	10I0164	
o-Xylene	177		ug/m3	8.7	1.00	228	78%	70 - 130	0.03	25	09/20/10 23:04	10I0164	
Xylenes, total	588		ug/m3	8.7	1.00	651	90%	70 - 130	1	25	09/20/10 23:04	10I0164	
<i>Surr: 4-Bromofluorobenzene</i>	321		ug/m3		1.00	358	90%	70 - 130			09/20/10 23:04	10I0164	
<i>Surr: 1,2-Dichloroethane-d4</i>	230		ug/m3		1.00	211	109%	70 - 130			09/20/10 23:04	10I0164	
<i>Surr: Toluene-d8</i>	208		ug/m3		1.00	205	101%	70 - 130			09/20/10 23:04	10I0164	

Sample ID: 10I0236-BSD1 (LCS Dup - Air)

EPA TO15 (Med-level) - Volatile Organic Compounds by GC/MS

tert-Butyl alcohol	802		ug/m3	45	1.00	758	106%	70 - 130	5	25	09/29/10 13:51	10I0236
1,2-Dibromoethane (EDB)	342		ug/m3	15	1.00	384	89%	70 - 130	1	25	09/29/10 18:37	10I0236
1,2-Dichloroethane	207		ug/m3	12	1.00	215	96%	70 - 130	0.1	25	09/29/10 18:37	10I0236
Ethanol	442		ug/m3	94	1.00	471	94%	70 - 130	12	25	09/29/10 13:51	10I0236
tert-Amyl methyl ether (TAME)	223		ug/m3	8.4	1.00	209	107%	70 - 130	3	25	09/29/10 13:51	10I0236
Ethyl tert-butyl ether (ETBE)	218		ug/m3	8.4	1.00	209	104%	70 - 130	3	25	09/29/10 13:51	10I0236
Diisopropyl ether (DIPE)	213		ug/m3	8.4	1.00	209	102%	70 - 130	4	25	09/29/10 13:51	10I0236
Methyl tert-butyl ether (MTBE)	149		ug/m3	7.2	1.00	193	77%	70 - 130	0.7	25	09/29/10 18:37	10I0236

LCS Dup - Cont.

Analyte	Result	Data		RL	Dilution	Spike		Target		RPD	Limit	Date Analyzed	QC Batch
		Qualifiers	Units			Conc	% Rec	Range					
Sample ID: 10I0145-BSD1 (LCS Dup - Air)													
ASTM D1946 - Fixed Gases													
Carbon dioxide	1.03		%(v/v)	0.010	1.00	0.998	103%	80 - 120	0.8	20	09/17/10 10:42	10I0145	
Carbon monoxide	0.0512		%(v/v)	0.0010	1.00	0.0455	112%	80 - 120	1	20	09/17/10 10:42	10I0145	
Methane	0.0580		%(v/v)	0.00020	1.00	0.0500	116%	80 - 120	0.8	20	09/17/10 10:42	10I0145	
Oxygen	5.43		%(v/v)	0.20	1.00	4.98	109%	80 - 120	0.02	20	09/17/10 10:42	10I0145	

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DATA QUALIFIERS AND DEFINITIONS

AZ Surr. recovery outside of acceptance limits due to matrix interf.
BH Reporting limits raised due to high level of non-target analytes
J,DX EPA Flag - Estimated value, Value < lowest standard (MQL), but > than MDL
ND Not detected at the reporting limit (or method detection limit if shown)

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

Client Contact Information		Project Manager: <u>Jim Barnard</u>		<u>LT10122</u>		<u>1</u> of <u>2</u> COCs																															
Company: <u>Delta Consultants</u>		Phone: <u>916-503-1279</u>		Samples Collected By: <u>Alan Buehler</u>																																	
Address: <u>11050 White Rock Rd, Ste 110</u>		Email: <u>j.barnard@deltaenv.com</u>																																			
City/State/Zip: <u>Rancho Cordova, CA 95670</u>		Site Contact:																																			
Phone: <u>916-503-1279</u>		LAB Contact:																																			
FAX: <u>916-658-8585</u>		Analysis Turnaround Time																																			
Project Name: <u>1156 Oakland</u>		Standard (Specify): <u>8day</u>																																			
Site:		Rush (Specify):																																			
PO # <u>C101156</u>																																					
Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-16	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other (Specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)																	
<u>SVW-1-1</u>	<u>9/8/10</u>	<u>10:33</u>	<u>10:47</u>	<u>-31</u>	<u>-5</u>	<u>HF047</u>	<u>18069D</u>	<u>X</u>											<u>X</u>																		
<u>SVW-1-2</u>	<u>9/8/10</u>	<u>10:48</u>	<u>10:58</u>	<u>-29</u>	<u>-5</u>	<u>HF092</u>	<u>A7143D</u>							<u>X</u>																							
<u>SVW-2-1</u>	<u>9/8/10</u>	<u>1:36</u>	<u>1:40</u>	<u>-27</u>	<u>-5</u>	<u>HF098</u>	<u>A7164D</u>	<u>X</u>																													
<u>SVW-2-2</u>	<u>9/8/10</u>	<u>1:43</u>	<u>1:50</u>	<u>-29</u>	<u>-5</u>	<u>HF074</u>	<u>A6767D</u>							<u>X</u>																							
<u>SVW-3-1</u>	<u>9/8/10</u>	<u>3:49</u>	<u>3:55</u>	<u>-30</u>	<u>-4</u>	<u>HF133</u>	<u>A6999D</u>	<u>X</u>																													
<u>SVW-3-2</u>	<u>9/8/10</u>	<u>3:56</u>	<u>4:01</u>	<u>-30</u>	<u>-5</u>	<u>HF046</u>	<u>A6737D</u>							<u>X</u>						<u>✓</u>																	
<p>Temperature (Fahrenheit)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Interior</td> <td>Ambient</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table> <p>Pressure (inches of Hg)</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Interior</td> <td>Ambient</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																					Interior	Ambient	Start			Stop				Interior	Ambient	Start			Stop		
	Interior	Ambient																																			
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Stop																																					
	Interior	Ambient																																			
Start																																					
Stop																																					
<p>Special Instructions/QC Requirements & Comments:</p> <p><u>FGA to include: O₂, CO₂, Methane</u></p> <p><u>Please cc Alan Buehler on reports at abuehler@deltaenv.com</u></p>																																					
Samples Shipped by: <u>Alan Buehler</u>		Date/Time: <u>9/14/10 9:00am</u>		Samples Received by:																																	
Samples Relinquished by:		Date/Time: <u>9/15/10 1030</u>		Received by:																																	
Relinquished by:		Date/Time:		Received by:																																	

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: 1806D
 DATE CLEANED: ~~A081310B~~ ~~C0824110A~~ C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF047
 Duration of comp. : _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.34	9/15/10	(Signature)
FINAL PRESSURE (PSIA)	26.25	9/15/10	(Signature)

Pressurization Gas: N₂

COMMENTS:

COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
15 Min.	316 - 333
30 Min.	158 - 166.7
1	79.2 - 83.3
2	39.6 - 41.7
4	19.8 - 20.8
6	13.2 - 13.9
8	9.9 - 10.4
10	7.92 - 8.3
12	6.6 - 6.9
24	3.5 - 4.0

2

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A7143D
 DATE CLEANED: A081310B C082410A C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF 027
 Duration of comp.: _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[REDACTED]	30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	11.64	9/15/10	(Signature)
FINAL PRESSURE (PSIA)	23.52	9/15/10	(Signature)

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A7164D
 DATE CLEANED: ~~A081310B~~ ~~C082410A~~ C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF098
 Duration of comp. : _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[REDACTED]	30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	11.92	9/15/10	(Signature)
FINAL PRESSURE (PSIA)	24.76	9/15/10	(Signature)

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A6767D
 DATE CLEANED: A081310B C082410A C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF074
 Duration of comp. : _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.28	9/15/10	0"
FINAL PRESSURE (PSIA)	24.50	9/15/10	0"

Pressurization Gas: NL

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

5

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A6999D
 DATE CLEANED: A081310B C082410A C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF133
 Duration of comp.: _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.87	9/15/10	(Signature)
FINAL PRESSURE (PSIA)	25.08	9/15/10	(Signature)

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

6

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A6737D
 DATE CLEANED: A081310B ~~C082410A~~ C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF046
 Duration of comp.: _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[REDACTED]	30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.24	9/15/10	(Signature)
FINAL PRESSURE (PSIA)	24.12	9/15/10	(Signature)

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A6756D
 DATE CLEANED: ~~A081310B~~ ~~C082410A~~ C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF105
 Duration of comp.: _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	1260	9/15/10	0"
FINAL PRESSURE (PSIA)	28.22	9/15/10	0"

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

8

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A6990D
 DATE CLEANED: ~~A081310B~~ C082410A C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF062
 Duration of comp. : _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK	[REDACTED]	30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	1248	9/15/10	15"
FINAL PRESSURE (PSIA)	24.08	9/15/10	15"

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A68781D
 DATE CLEANED: A081310B C082410A C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF058
 Duration of comp.: _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	13.01	9/15/10	0'
FINAL PRESSURE (PSIA)	26.47	9/15/10	0'

Pressurization Gas: W₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER FIELD DATA RECORD

CLIENT: DELTA
 CANISTER SERIAL #: A7157D
 DATE CLEANED: A081310B G082410A C082510A
 CLIENT SAMPLE #: _____
 SITE LOCATION: _____

VFR ID: HF 114
 Duration of comp.: _____ Hrs. / mins.
 Flow setting: ~150.0 ml/min
 Initials: (Signature)

READING	TIME	Vac. (Inches Hg) Or PRESS. (psig)	DATE	INITIALS
INITIAL VACUUM CHECK		30"	8/27/10	(Signature)
INITIAL FIELD VACUUM				
FINAL FIELD READING				

LABORATORY CANISTER PRESSURIZATION			
INITIAL VACUUM (Inches Hg / PSIA (circle unit used))	12.25"	9/15/10	(Signature)
FINAL PRESSURE (PSIA)	24.68	9/15/10	(Signature)

Pressurization Gas: N₂

COMMENTS:	COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)
		15 Min.
	30 Min.	158 - 166.7
	1	79.2 - 83.3
	2	39.6 - 41.7
	4	19.8 - 20.8
	6	13.2 - 13.9
	8	9.9 - 10.4
	10	7.92 - 8.3
	12	6.6 - 6.9
	24	3.5 - 4.0

CANISTER QC CERTIFICATION



Certification Type: TD-15 ML

Date Cleaned/Batch C082510A

Date of QC 8-25-200

Data File Number M1308257 (MSA)

CANISTER ID NUMBERS

* 1806D¹

A6767D⁴

A6987D

A6878D⁹

A7157D¹⁰

A7164D³

A6990D⁸

A6750D⁷

A7143D²

A6999D⁵

5038D

A6737D⁶

8/25/00
8

The above canisters were cleaned as a batch. This certifies this batch contains no target analyte concentration greater than or equal to the method criteria for the "Certification Type" indicated above.

"*" INDICATES THE CAN OR CANS WHICH WERE SCREENED.

AD
Reviewed By:

8/25/00
Date:

TestAmerica Los Angeles

AIR TOXICS - TO-14A/TO-15 MEDIUM LEVEL

Data file : \\TAILAX65\MSA_C\CHEM\MSA.I\100825.B\MB08251.D
 Lab Smp Id: BLANK Client Smp ID: 1806D
 Inj Date : 25-AUG-2010 15:59
 Operator : AA Inst ID: MSA.i
 Smp Info : BLANK,1806D,,METHOD BLANK
 Misc Info : 1,1,500,500,3,,BLANK,BLANK.SUB,0,
 Comment :
 Method : \\TAILAX65\MSA_C\CHEM\MSA.I\100825.B\TO14A.m
 Meth Date : 25-Aug-2010 16:20 almagroa Quant Type: ISTD
 Cal Date : 19-AUG-2010 06:43 Cal File: IC08187.D
 Als bottle: 6 QC Sample: BLANK
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: BLANK.SUB
 Subtraction File: \\TAILAX65\MSA_C
 Target Version: 4.04
 Processing Host: TAILAX65

Concentration Formula: Amt * DF * (FinalPres / InitPres)*(CalVol / SmpVol)

Name	Value	Description
DF	1.000	Dilution Factor
FinalPres	1.000	FinalPres
InitPres	1.000	InitPres
CalVol	500.000	CalVol
SmpVol	500.000	SmpVol

Compounds	QUANT	SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
							ON-COLUMN (ppbv)	FINAL (ppbv)
* 58 Bromochloromethane	130		9.232	9.251	(1.000)	896853	50.0000	
\$ 65 1,2-Dichloroethane-d4	65		10.241	10.251	(1.109)	1374691	55.8411	55.84
* 76 1,4-Difluorobenzene	114		11.007	11.007	(1.000)	3671162	50.0000	
\$ 88 Toluene-d8	100		13.547	13.548	(1.231)	1501615	48.0781	48.08
* 99 Chlorobenzene-d5	117		16.133	16.142	(1.000)	2315060	50.0000	
\$ 114 4-Bromofluorobenzene	95		18.322	18.331	(1.136)	2557617	54.2037	54.20

\\TAILAX65\MSA_C\chem\MSA.i\100825.B\MB08251.D

