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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,

Bill Burgh

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 (μ g/L), 70 μ g/L, and 140 μ 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 μ g/L, 400 μ g/L, 770 μ g/L and 8,900 μ g/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 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, TPPHq, benzene, toluene, ethyl-benzene, xylenes, and MTBE at concentrations of 16,000 $\mu g/L$, 120,000 $\mu g/L$, 11,000 $\mu g/L$, 27,000 $\mu g/L$, 3,300 $\mu g/L$, 18,000 $\mu g/L$, 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 though 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

<u>2001</u> – 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.

<u>2006</u> – 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 (O_2), carbon dioxide (CO_2), and methane (CH_4) 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 (TPHIn), 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. 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 μ g/L in three of the five grab groundwater samples collected. Concentrations were reported in SB-17 (260 μ g/L), SB-18 (1,900 μ g/L), and SB-19 (1,100 μ g/L).

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

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

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

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

TBA was above the ESL value of 12 μ g/L in two of the five grab groundwater samples collected. Concentrations were reported in SB-16 (730 μ g/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 $10,000 \, \mu g/m^3$ in soil vapor samples collected from SVW-2 (78,000,000 $\, \mu g/m^3$), SV-3 (250,000,000 $\, \mu g/m^3$), SVW-5 (320,000,000 $\, \mu g/m^3$), and SVW-6 (420,000,000 $\, \mu g/m^3$).

Benzene was above the ESL value of 84 μ g/m³ in soil vapor samples collected from SVW-2 (ND<20,000 μ g/m³), SVW-3 (1,100,000 μ g/m³), SVW-5 (540,000 μ g/m³), and SVW-6 (1,000,000 μ g/m³).

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

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

Total Xylenes were above the ESL value of 21,000 μ g/m³ in the soil vapor samples collected from SVW-2 (99,000 μ g/m³), SVW-3 (820,000 μ g/m³), SVW-5 (ND<32,000 μ g/m³), and SVW-6 (170,000 μ g/m³).

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

EDB was below laboratory indicated reporting limits in all samples collected, however reporting limits were above the ESL value of 4.1 μ g/m³ in samples collected from wells SVW-1 (ND<31 μ g/m³), SVW-2 (ND<32,000 μ g/m³), SVW-3 (ND<37,000 μ g/m³), SVW-5 (ND<57,000 μ g/m³), and SVW-6 (ND<78,000 μ g/m³).

1,2-DCA was below laboratory indicated reporting limits in all samples collected, however reporting limits were above the ESL value of 94 μ g/m³ in samples collected from wells SVW-2 (ND<25,000 μ g/m³), SVW-3 (ND<30,000 μ g/m³), SVW-5 (ND<45,000 μ g/m³), and SVW-6 (ND<62,000 μ g/m³).

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 <u>DISCUSSION AND RECOMMENDATIONS</u>

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 ESIs
- Figure 12 Site Map with TPHg, TPHd, Benzene, and MTBE Concentrations in Soil Vapor Above ESLs

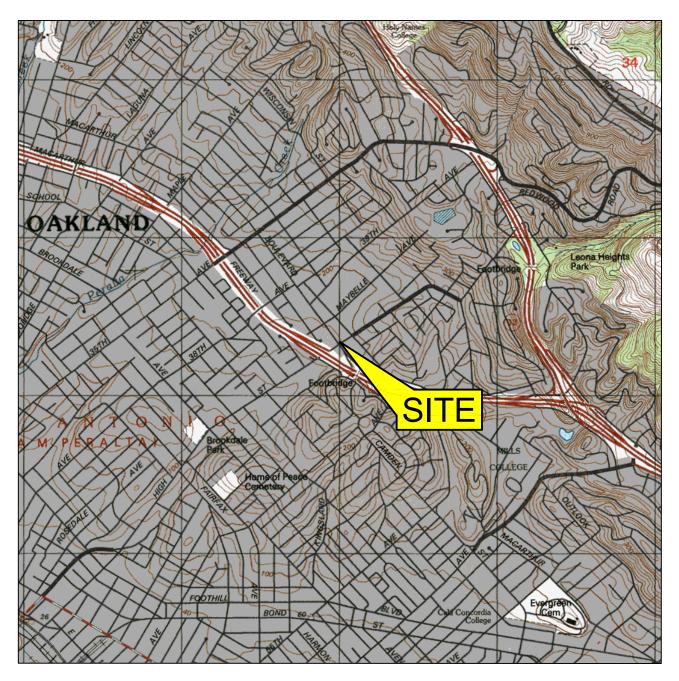
TABLES

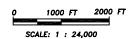
- Table 1 Soil Analytical Results
- Table 2 Grab Groundwater Analytical Results
- Table 3 Soil Vapor Analytical Results

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







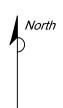


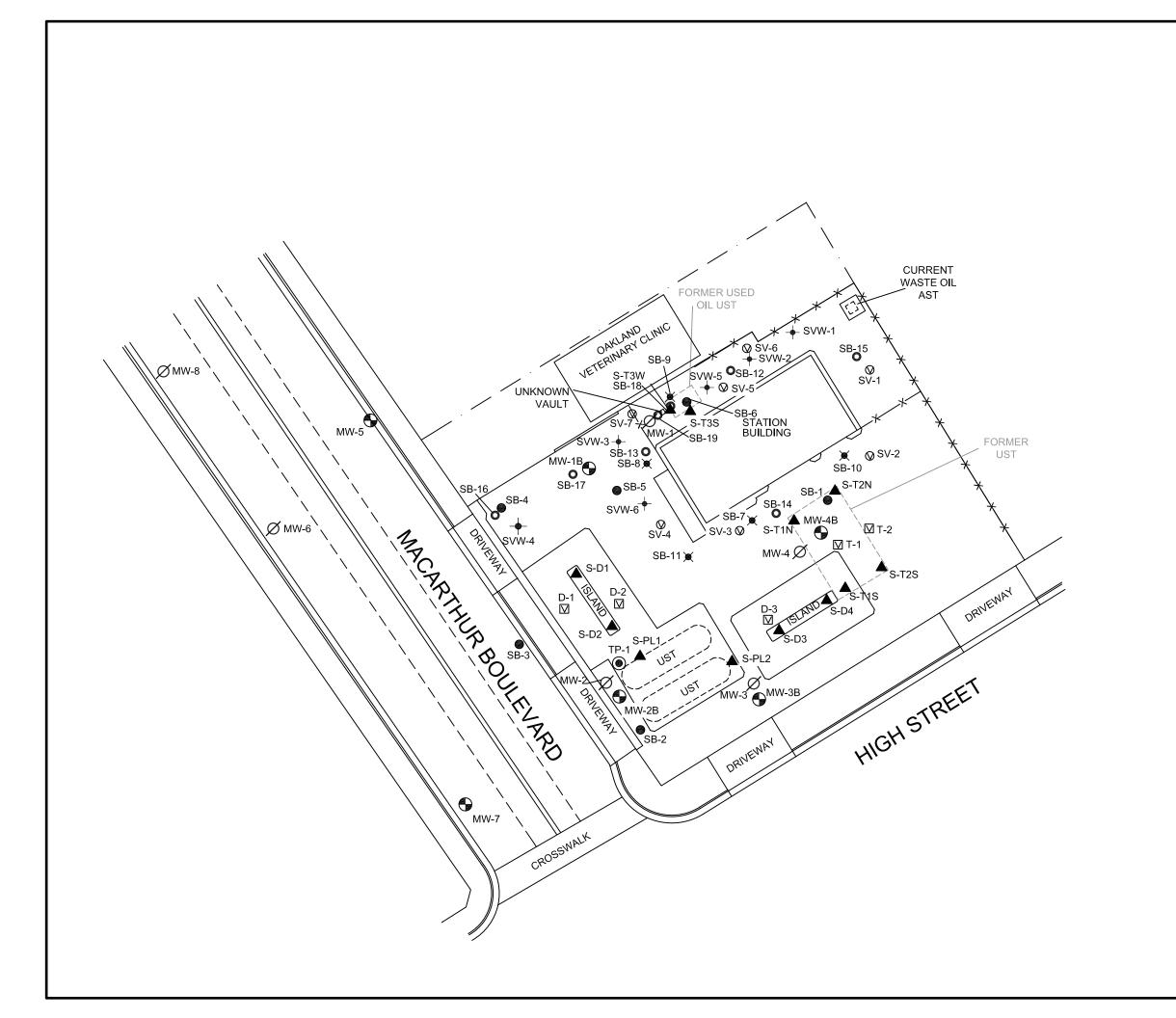
FIGURE 1 SITE LOCATOR MAP

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

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



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



- 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)

XX FENCE

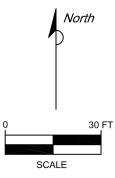


FIGURE 2 SITE MAP WITH HISTORICAL SAMPLING LOCATIONS

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



CURRENT WASTE OIL AST FORMER USED OIL UST SVW-1 + SVW-2 SVW-5 UNKNOWN\ VAULT STATION BUILDING FORMER UST €vw-3 💠 MW-1B SVW-6 MW-4B DRIVEWAY ●^{MW-3B}/ DAVEMEN MW-2B MW-7

LEGEND

GROUNDWATER MONITORING WELL

SOIL VAPOR WELL

XX FENCE

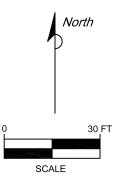
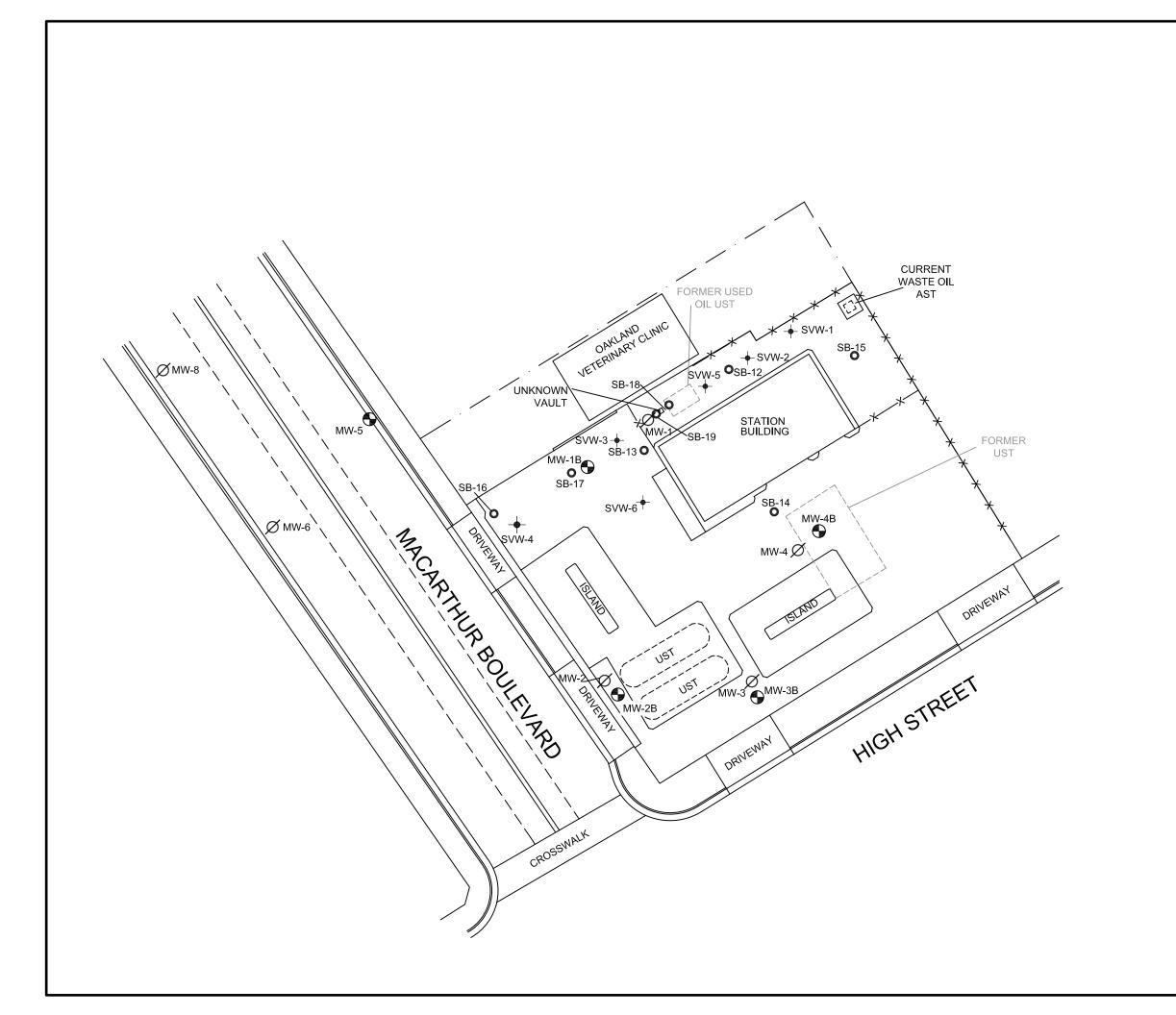


FIGURE 3
SITE MAP WITH CURRENT
ON-SITE WELLS

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0	JB





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

XX FENCE

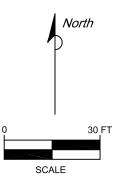
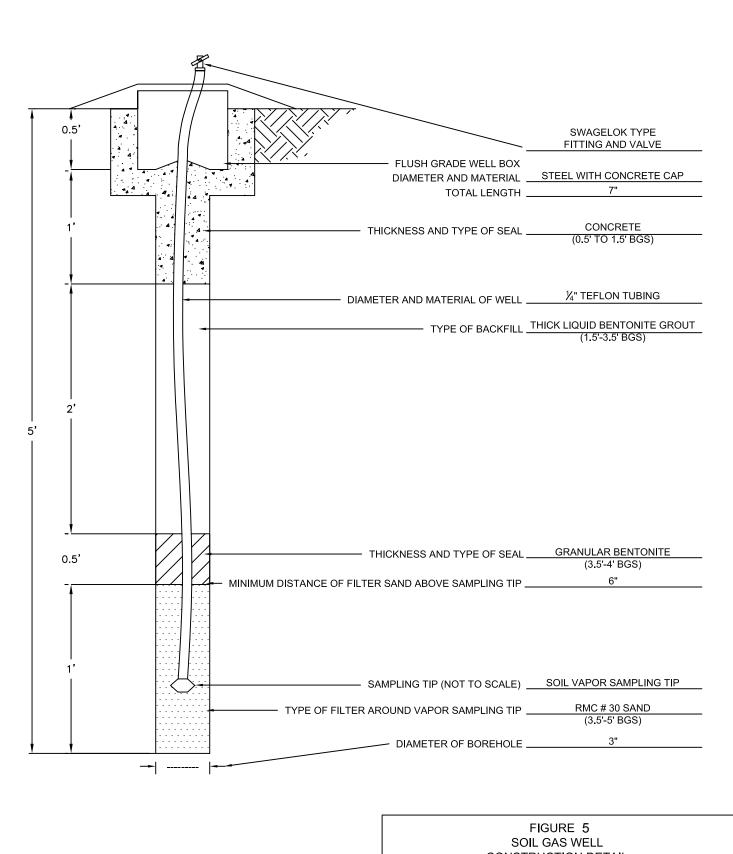


FIGURE 4 SITE MAP WITH CURRENT INVESTIGATION SAMPLING LOCATIONS

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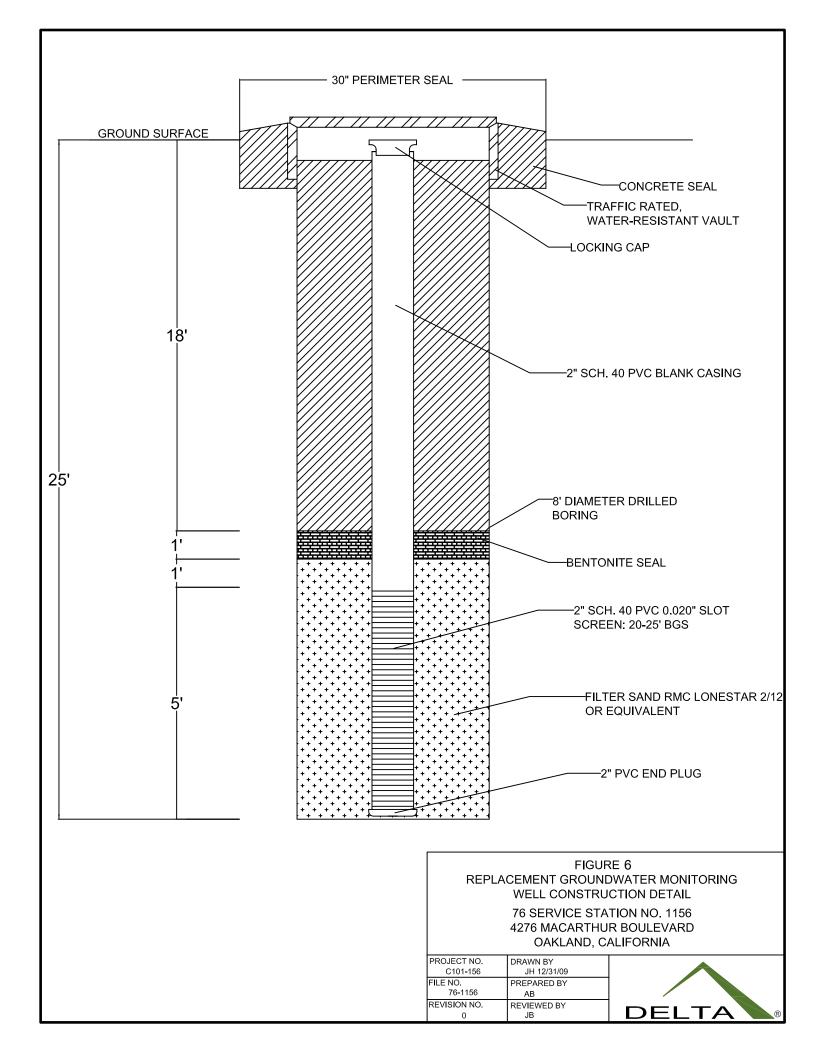


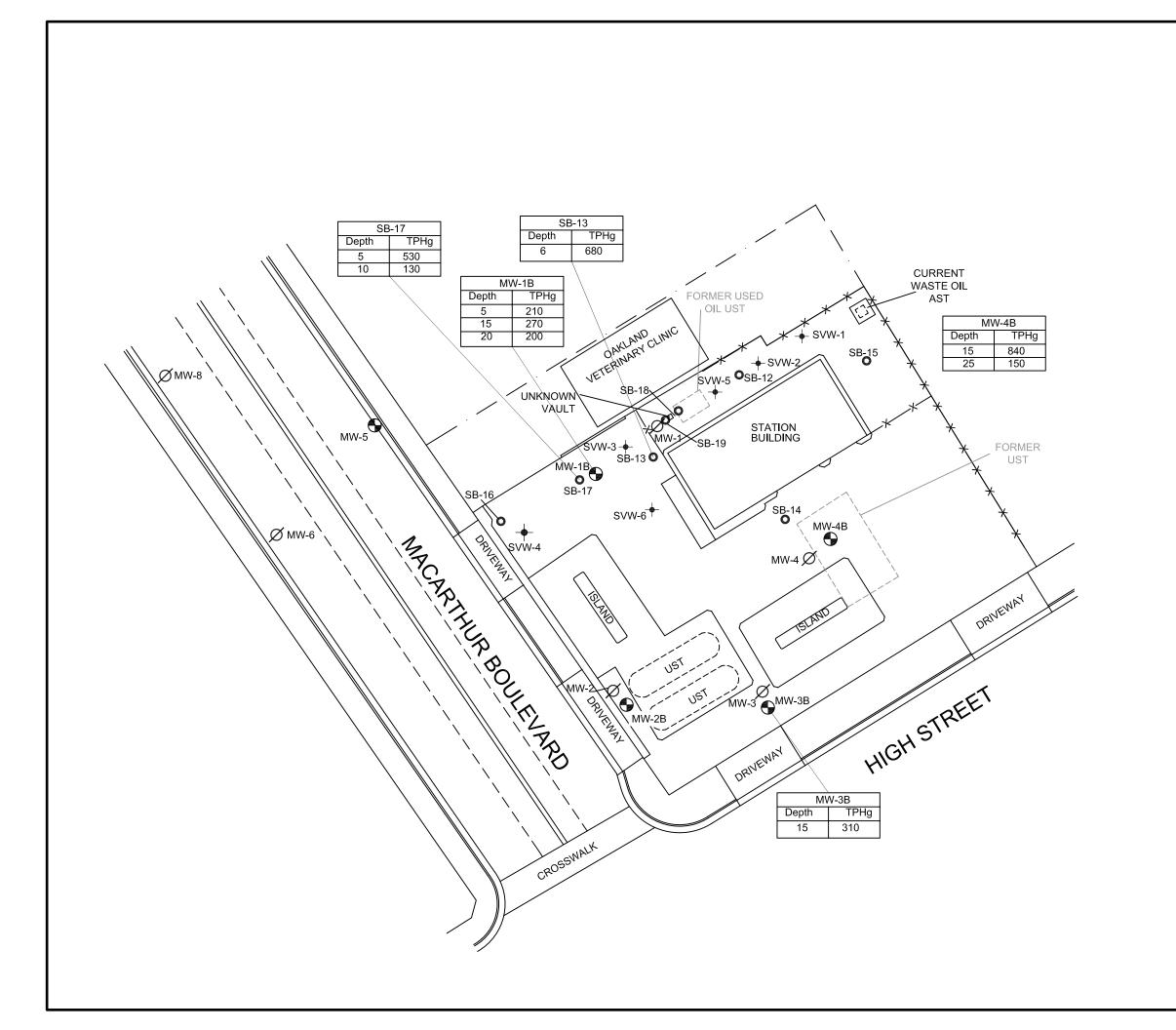


SOIL GAS WELL CONSTRUCTION DETAIL 76 SERVICE STATION NO. 1156 4276 MACARTHUR BOULEVARD OAKLAND, CALIFORNIA

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







GROUNDWATER MONITORING WELL

ABANDONED GROUNDWATER MONITORING WELL

SOIL VAPOR WELL

SOIL BORING (DELTA, 2010)

X 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

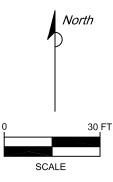
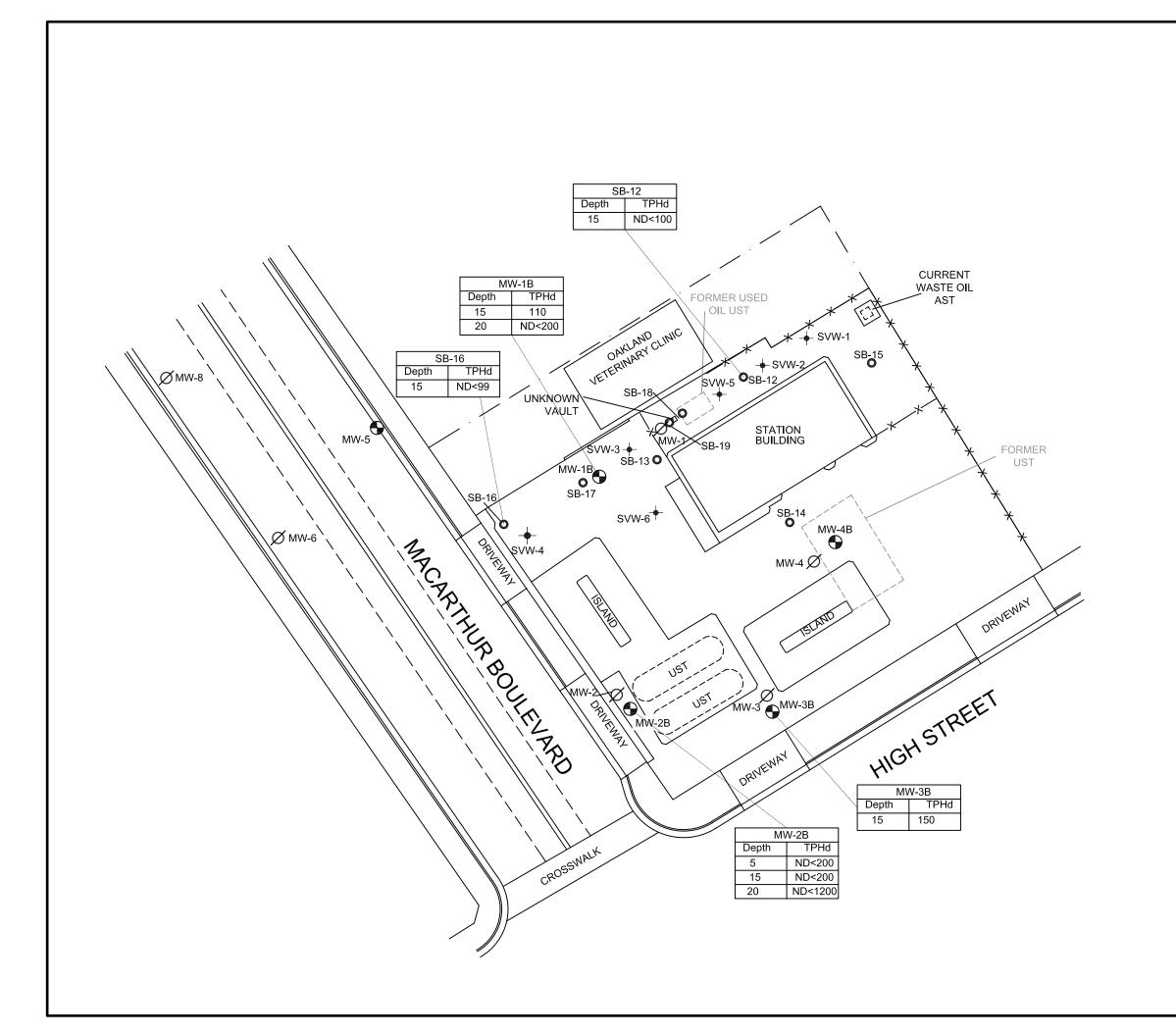


FIGURE 7 SITE MAP WITH TPHg CONCENTRATIONS IN SOIL ABOVE ESLS 76 SERVICE STATION NO. 1156 4276 MACARTHUR BOULEVARD OAKLAND, CALIFORNIA

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REVISION NO.	REVIEWED BY
0	JB





GROUNDWATER MONITORING WELL

ABANDONED GROUNDWATER MONITORING WELL

SOIL VAPOR WELL

SOIL BORING (DELTA, 2010)

XX 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

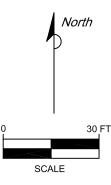
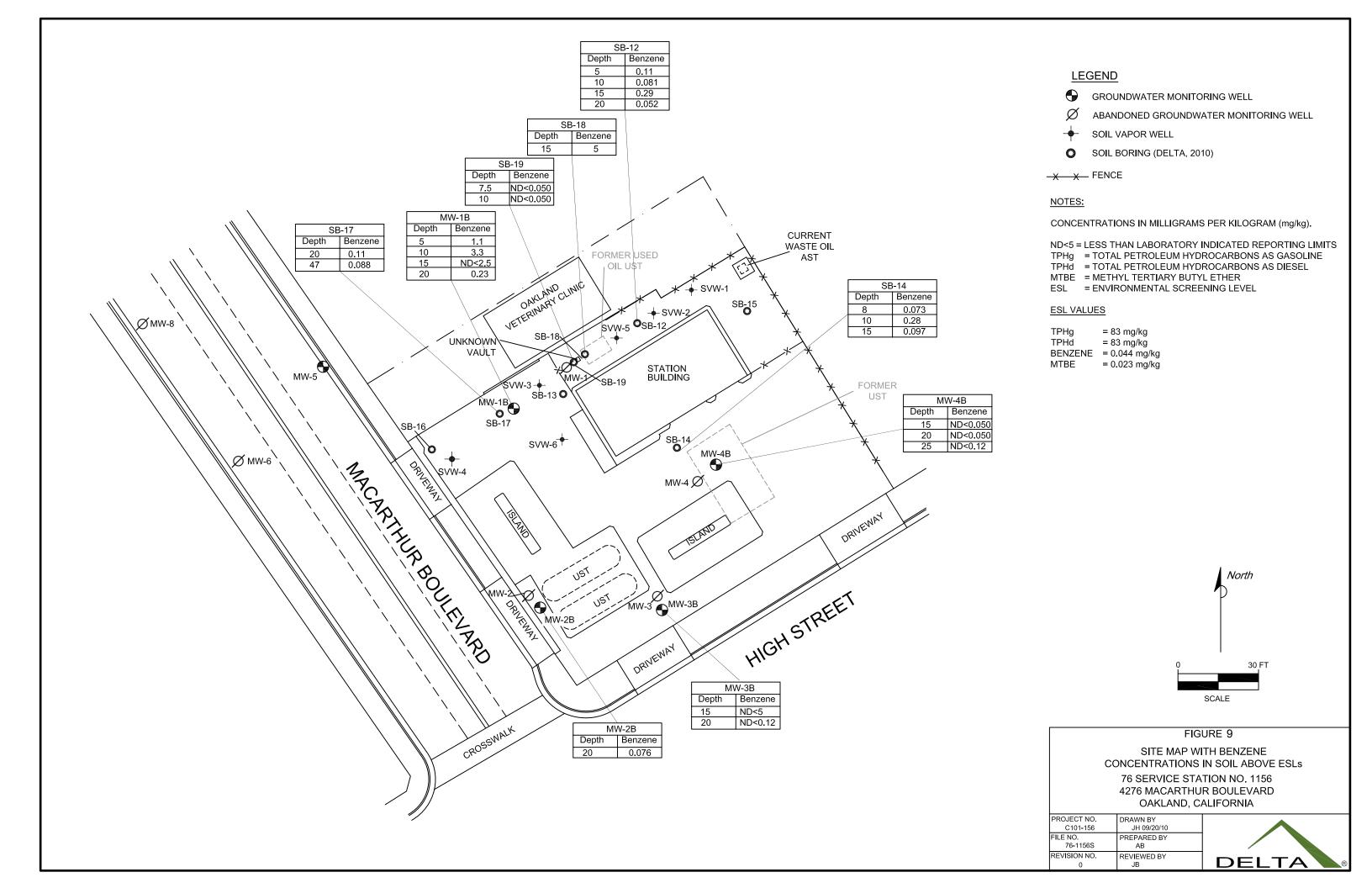
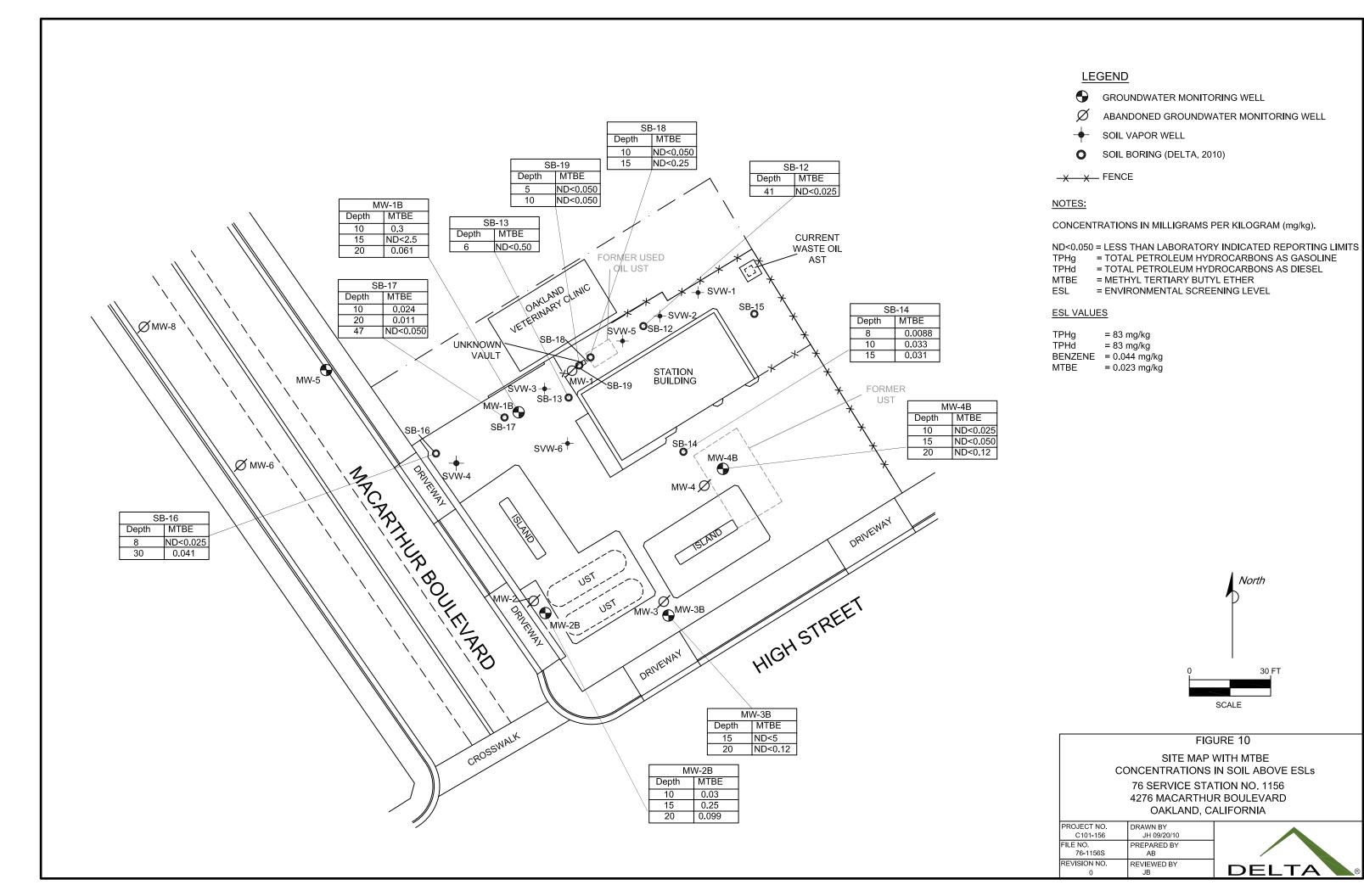


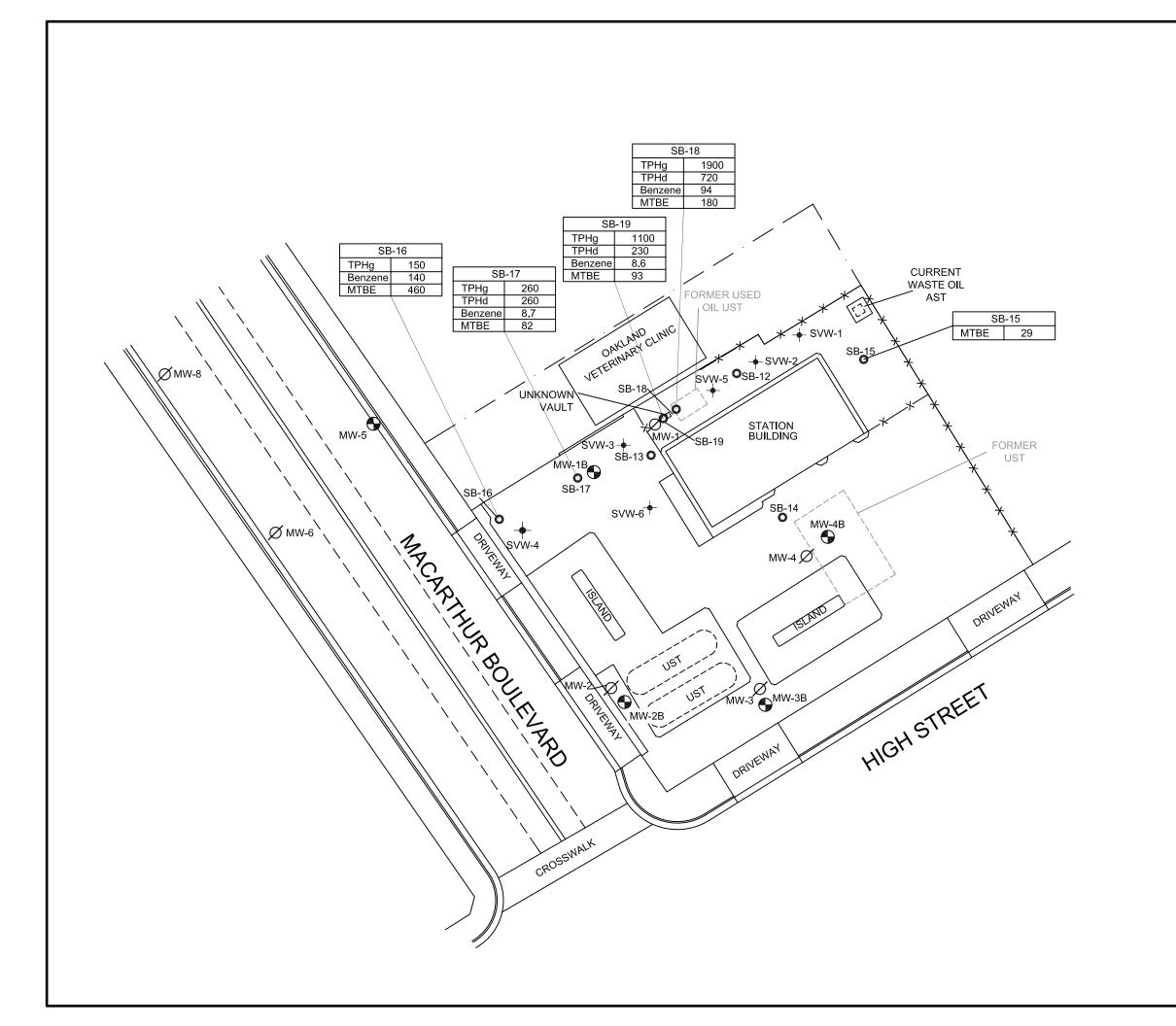
FIGURE 8 SITE MAP WITH TPHd CONCENTRATIONS IN SOIL ABOVE ESLS 76 SERVICE STATION NO. 1156 4276 MACARTHUR BOULEVARD OAKLAND, CALIFORNIA

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FILE NO. 76-1156S	PREPARED BY AB
REVISION NO.	REVIEWED BY
0	JB









GROUNDWATER MONITORING WELL

ABANDONED GROUNDWATER MONITORING WELL

SOIL VAPOR WELL

SOIL BORING (DELTA, 2010)

XX FENCE

NOTES:

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

= TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

TPHd = TOTAL PETROLEUM HYDROCARBONS AS DIESEL

MTBE = METHYL TERTIARY BUTYL ETHER

= ENVIRONMENTAL SCREENING LEVEL

ESL VALUES

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

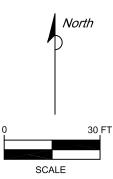
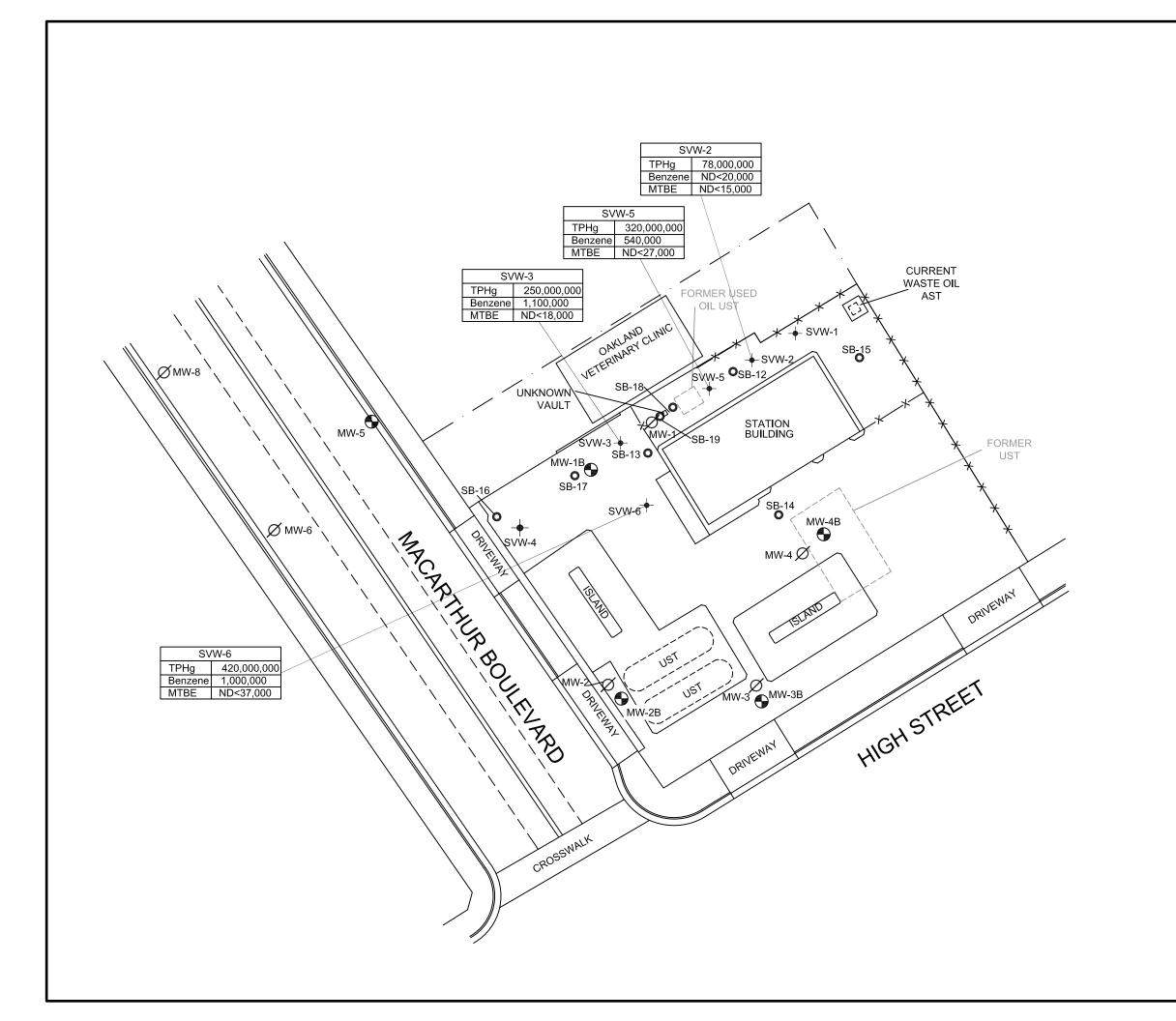


FIGURE 11

SITE MAP WITH TPHg, TPHd, BENZENE AND MTBE CONCENTRATIONS IN GROUNDWATER ABOVE ESLs

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





GROUNDWATER MONITORING WELL

ABANDONED GROUNDWATER MONITORING WELL

SOIL VAPOR WELL

SOIL BORING (DELTA, 2010)

XX FENCE

NOTES:

- CONCENTRATIONS IN MICROGRAMS PER CUBIC METER (µg/m))

- NON-DETECT VALUES ARE REPORTED WHERE REPORTING

LIMITS ARE ABOVE ESL VALUES.

= TOTAL PETROLEUM HYDROCARBONS AS GASOLINE

= METHYL TERTIARY BUTYL ETHER MTBE = ENVIRONMENTAL SCREENING LEVEL

ESL VALUES

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

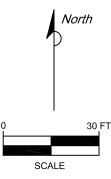


FIGURE 12

SITE MAP WITH TPHg, BENZENE AND MTBE CONCENTRATIONS IN SOIL VAPOR ABOVE ESLs

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



TABLES

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

Oakland, California

Boring	Depth	Date	TPHg (8015M)	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	1,2-DCA	TAME	TBA	DIPE	ETBE	Ethanol
	(ft)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	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
SB-12	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
SB-12	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
	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
SB-14	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
	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 15	6/18/10	<1.0	<2.0 17	<10 <10	<0.0050 <0.0050	<0.0050	<0.0050	<0.010	<0.0050	<0.0050 <0.0050	<0.0050 <0.0050	<0.0050 <0.0050	<0.050 <0.050	<0.0050 <0.0050	<0.0050 <0.0050	<1.0
	21.5	6/18/10 6/18/10	<1.0 <1.0	<2.0	<10	<0.0050	<0.0050 <0.0050	<0.0050 <0.0050	<0.010 <0.010	<0.0050 <0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0050	<0.0050	<1.0 <1.0
SB-15	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
	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
CD 40	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
SB-16	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
	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
SB-17	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
55	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

4276 MacArthur Boulevard Oakland, California

Boring	Depth	Date	TPHg (8015M)	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	1,2-DCA	TAME	TBA	DIPE	ETBE	Ethanol
	(ft)		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	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
SB-18	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
3D-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
	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
SB-19	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
	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
MW-1B	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
	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
MW-2B	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
	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
MW-3B	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
	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
MM 4B	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	<5 400
MW-4B	15	8/13/2010	840	15		<0.50	0.89	41	170	<0.50	<0.50	<0.50	<0.50	< <u>5</u>	<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 Lowest Residential Soil ESL*		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
Low	est kesiaei	ntiai Soll ESL*	83	83	5000	0.044	2.9	3.3	2.3	0.023	0.00033	0.0045	NE	0.075	NE	NE	NE

^{*} Based on ESL values for deep soils graeter than 3 meters, wehre 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	Date	TPHIn	TPHag	TPHss	TPHhn	TPHg (8260B)	TPHjf4	TPHjf5	TPHjf8	TPHk	TPHfo	TPHco	TPHwd40	TOG
	(ft)		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
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

TPHIn = total petroleum hydrocarbons as light naptha TPHag = TPH as aviation gas TPHss = TPH as stoddard solvent TPHhn = TPH as heavy naptha TPHg = TPH as gasoline TPHjf4 = TPH as JP4 jet fuel TPHjf5 = TPH as JP5 jet fuel TPHjf8 = TPH as JP5 jet fuel TPHk = TPH as kerosene TPHf0 = TPH as fuel oil TPHc0 = TPH as crude oil TPHwd40 = TPH as WD-40 TOG = total oil and grease * Based on ESL values for deep soils graeter than 3 meters, wehre 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	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	1,2-DCA	TAME	TBA	DIPE	ETBE	Ethanol
			ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	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 I	ESLs for Gro	oundwater*	100	100	100	1.0	40	30	20	5.0	0.05	0.5	NE	12	NE	NE	NE

TPHg = total petroleum hydrocarbons as gaoline TPHd = total petroleum hydrocarbons as diesel TPHmo = total petroleum hydrocarbons as motor oil EDB = ethylene dibromide 1,2-DCA = 1,2 dichloroethane MTBE = metty; 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 meteres, 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	Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	1,2-DCA	TAME	TBA	DIPE	ETBE	Ethanol	Oxygen	Carbon Dioxide	Methane	IPA
	(ft)		$(\mu g/m^3)$	(µg/m³)	$(\mu g/m^3)$	$(\mu g/m^3)$	(µg/m³)	$(\mu g/m^3)$	[%(v/v)]	[%(v/v)]	[%(v/v)]	$(\mu g/m^3)$							
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 S ESLs**	Soil Gas	10,000	84	63,000	980	21,000	9,400	4.1	94	NE	NE	NE	NE	NE				
	Shallow S CHHSLs***		NE	36.2	135,000	NE	NE	4,000	NE	49.6	NE	NE	NE	NE	NE				

TPHg = total petroleum hydrocarbons as gaoline 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 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

ALAMEDA COUNTY **HEALTH CARE SERVICES**

AGENCY

ALEX BRISCOE, Acting Director



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 Mudget 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. Mudget, and Mr. Goswamy:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the abovereferenced site, including the recently submitted document entitled, "Site Investigation Report, 76 Service station, 4276 MacArthur Blvd., Oakland, CA," dated August 265, 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, 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 (µg/m³). 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.

- 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. 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.

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. 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 Please visit the SWRCB website for more information on these requirements PDF format). (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.

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,

Serry Wiekham, 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

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ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.

- b) In the subject line of your request, be sure to include "ftp PASSWORD REQUEST" and in the body of your request, include the Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
 - (i) Note: Netscape and Firefox browsers will not open the FTP site.
 - b) Click on File, then on Login As.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by Report Upload. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

ACHCSA Letter dated April 15, 2010

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY



ALEX BRISCOE, Agency Director

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: <u>Terry.L.Grayson@contractor.conocophillips.com</u>)
ConocoPhillips
76 Broadway
Sacramento, CA 95818

Rajan Goswamy 4276 MacArthur Boulevard Oakland, CA 94619 Carole Quick and Lorraine Mudget 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. Mudget, 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

- 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 asses 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

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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.

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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

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: <u>Igriffin @oaklandnet.com</u>)

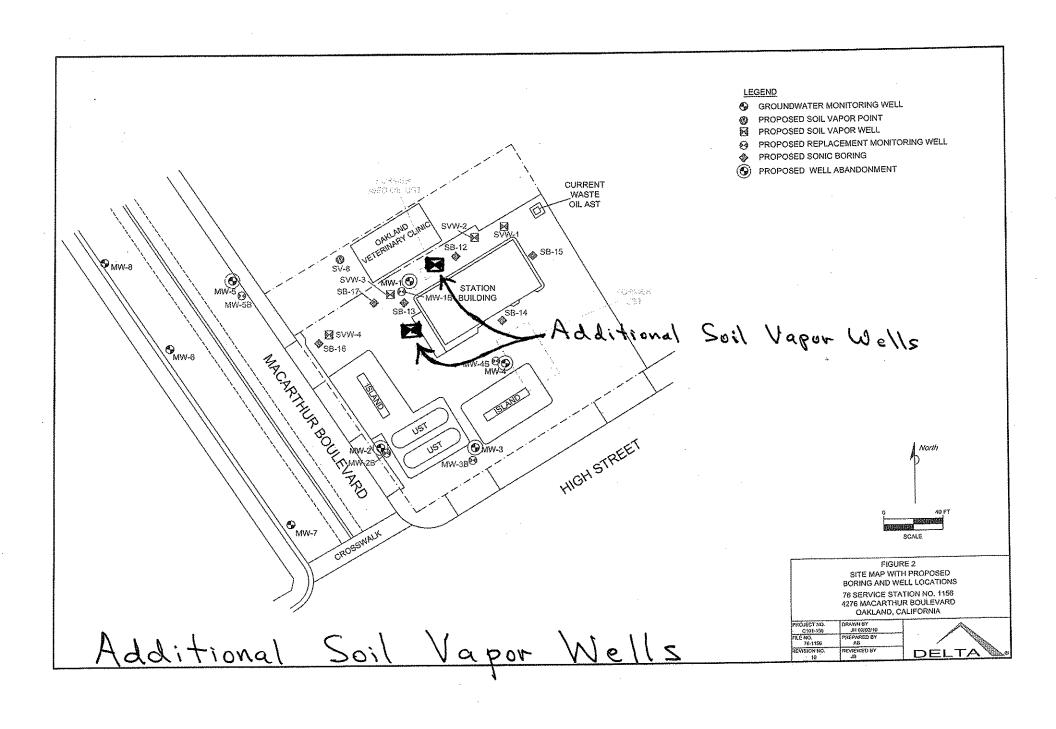
James Barnard, Delta Environmental Consultants, Inc., 11050 White Rock Road, Suite 110 Rancho Cordova, CA 95670 (Sent via E-mail to: <u>JBarnard@deltaenv.com</u>)

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@craworld.com*)

Donna Drogos, ACEH (Sent via E-mail to: <u>donna.drogos@acgov.org</u>) 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

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- 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@acqov.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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1 of 1 9/16/2010 11:41 AM

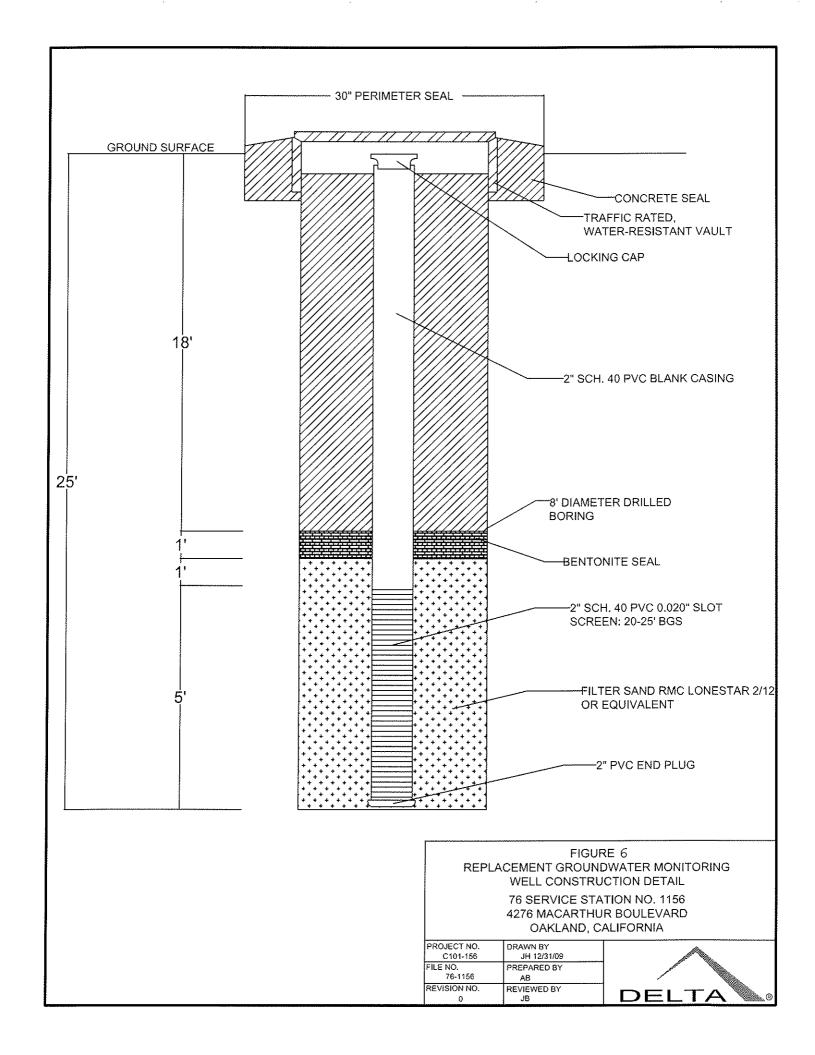
APPENDIX D

DWR Well Completion and Abandonment Reports

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

	Duningh 83	C1011FC		Clie		COD	Boring/Well No: MW-4B
	Project No: Logged By:	C101156 Alan Buel	aler	Clie	nt: stion:	COP Oakland	Page 1 of 2
	Driller:	Gregg Dri			e Drille		
Delta	Drilling Metho		_	Hole	Diame	eter: 8"	
Delta	Sampling Met	nod: Split Sp	oon	Hole	Depth	: 25'	
Consultants	Casing Type:	Sch 40			Diame		
	Slot Size:	0.02			Depth		
	Gravel Pack:	2/12		▼ First		Depth: er Depth:	
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Sackfill SO Casing dam ooipplase	Moisture Content PID Reading	Sample Identification	Depth (feet)		Soil Type	1 171	HOLOGY / DESCRIPTION
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ka u sa malialah ki ki Pad	19.	5 MW-4B	15		ÇL	Brown/green mott	tled lean clay with sand, 15% fine
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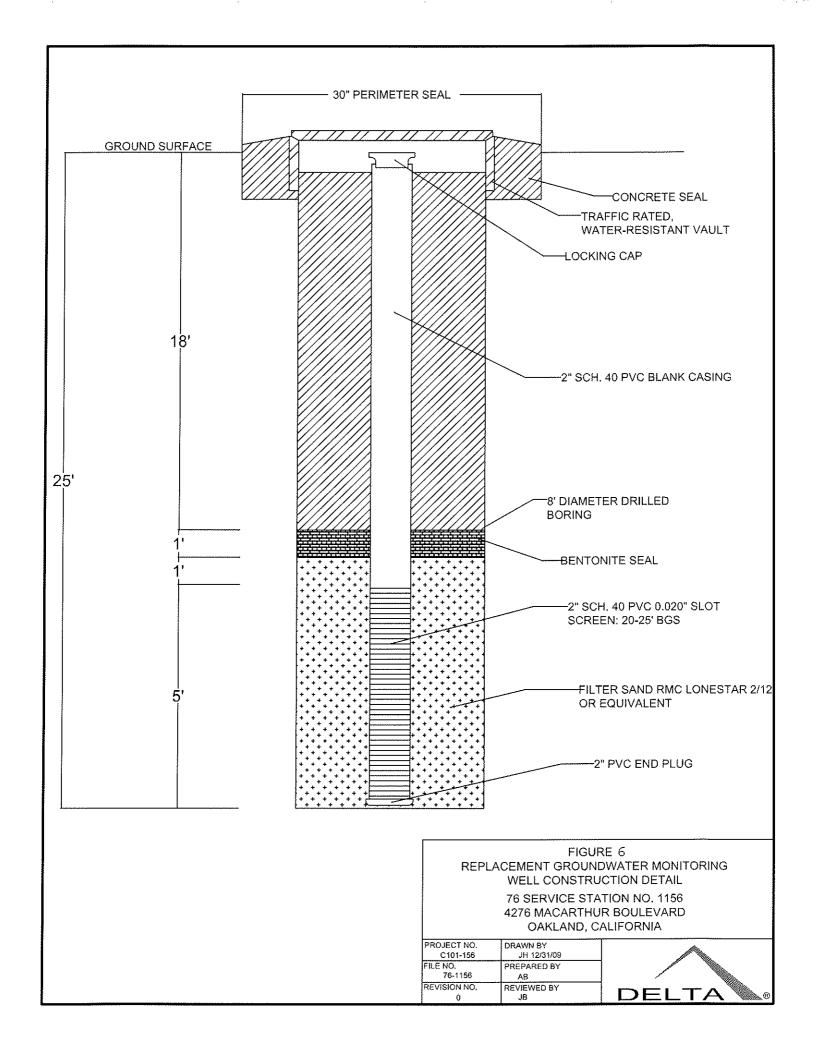
		Projec	+ No:	C101156			Clier	ht•	СОР	Boring/Well No: MW-4B
		1		Alan Buehle	er.			tion:	Oakland	Page 2 of 2
l		Driller	-	Gregg Drilli				Drilled		
Deli	ta	Drillin	g Meth	HAS			Hole	Diame		
					Split Sp	oon				
Environm				Sch 40				Diame		
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Well Completion	el		δ	<u>۲</u> (ੜ੍ਹ	Sar	nple	as		
· ·	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	E .		Soil Type	1.771	HOLOGY / DESCRIPTION
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

		Inusiast	Ala.	C101156			Clian		COD	Boring/Well No: MW-3B
		Project Logged		C101156 Alan Bueh	ler		Clien	it: tion:	COP Oakland	Page 1 of 2
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	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)		·	Soil Type		
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			9	MW-3B	20			СН	Light brown fat cla	y, damp, mild odor
and the second			-	-20	21				001000700011111111111111111111111111111	
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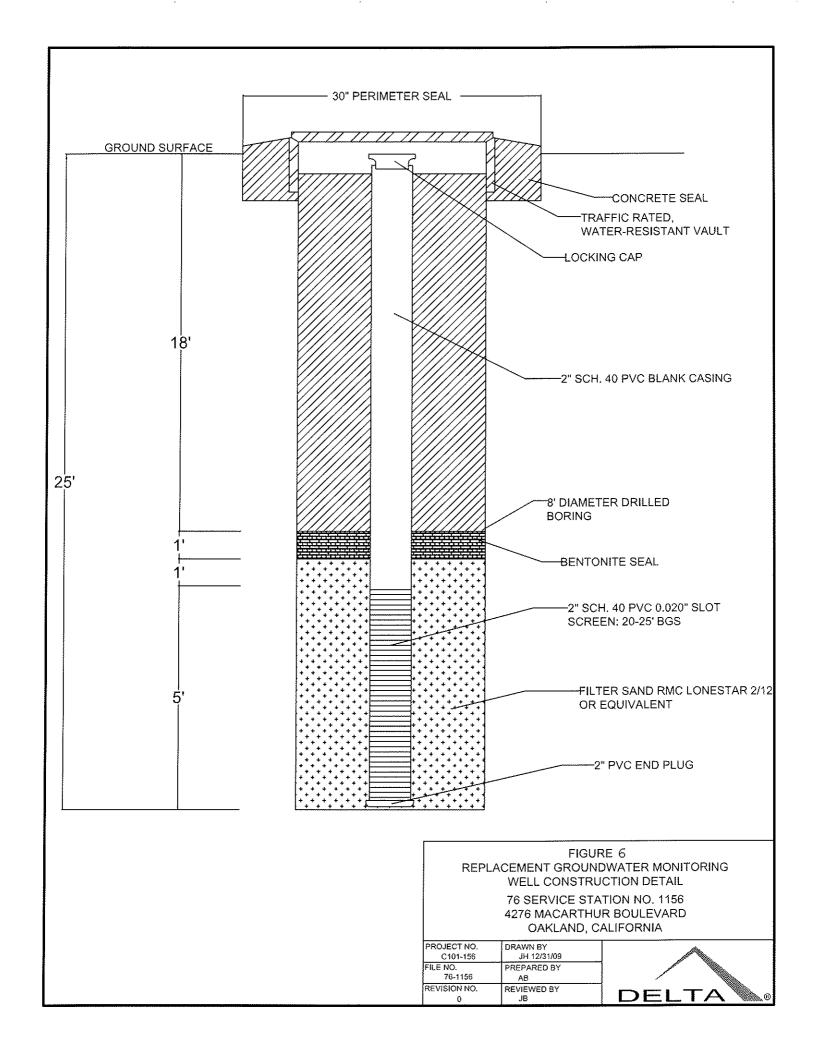
										
		1 -		C101156			Clien		COP	Boring/Well No: MW-3B
				Alan Buehle					Oakland	Page 2 of 2
	4~	Driller		Gregg Drilli	ng			e Drilled	• •	
Delt	la	Drillin	ng Metho		0 - 114 Cr			Diame		
Environme		Sump	oling Met	ethod: : Sch 40	Split Sp	0011		e Depth: Diame		1
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	Í		_ '	1	Z4+ - 	L'		,		lay with sand, 30% fine-med
i	1		15	MW-3B	25 —	380.38	33.55	CL	sand, moist, very s	slight odor
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

	Project No:		101156			Clier		COP	Boring/Well No: MW-2B
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Delta	Drilling Met		regg Drill as	iing			Drilled Diame	•	
Della	Sampling M			on			Depth		
Consultants	Casing Typ		ch 40				Diame		
	Slot Size:		02			Well	Depth	: 25'	
	Gravel Pack	k: 2/	/12					Depth:	
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Well	Elevation:	Т	·	Northin	<u>g:</u>			Easting:	
Completion S	يًا يه و	PID Keading (ppm)	Sample Identification	Depth (feet)	Sar	nple	e Se		
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	In	C4.04.4.5.6		C**			Boring/Well No: MW-2B
	Project No: Logged By:	Alan Buehle	\r	Clier		COP Oakland	Page 2 of 2
	Driller:	Gregg Drilli			Drilled		rage 2 01 2
Delta	Drilling Meth		9		Diame		
DCICA	1	thod: Split S	poon		Depth		
Environmental	Casing Type	: Sch 40		Well	Diame	ter: 2"	
Consultants,	Slot Size:	0.02			Depth:		
Inc.	Gravel Pack:	2/12				Depth: 23.5' r Depth:	
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Well Tompletien	5g	ت <u> </u>	ਦੇ ਰ	Sample			
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			23			Brown lean clay w	th sand, 25% sand, some gravel,
			24			mild odor	
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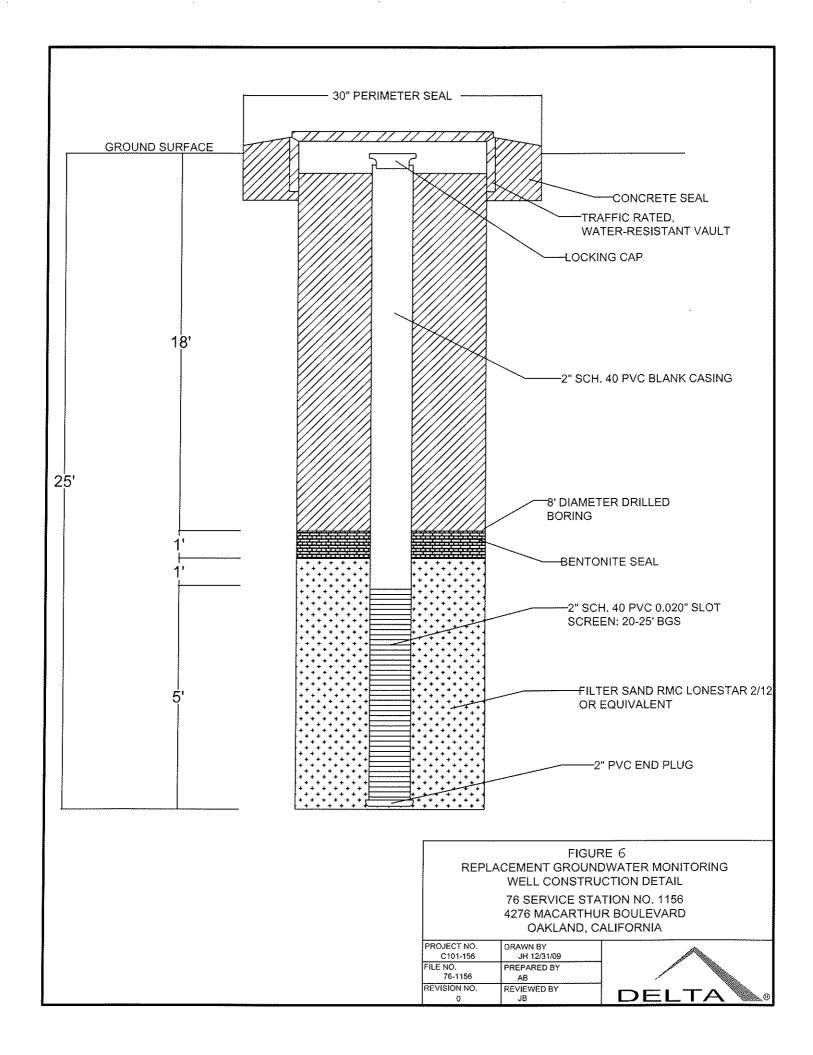


STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

	Project	No	C101156			Clier	.+.	COP	Boring/Well No: MW-1B
	Logged		Alan Bueh	ler			tion:	Oakland	Page 1 of 2
	Delloss	-,-	Gregg Dri				Drille		
Delta	Drilling	Method:	HAS			Hole	Diame	eter: 8"	
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Consultants	Casing ⁻		Sch 40				Diame		
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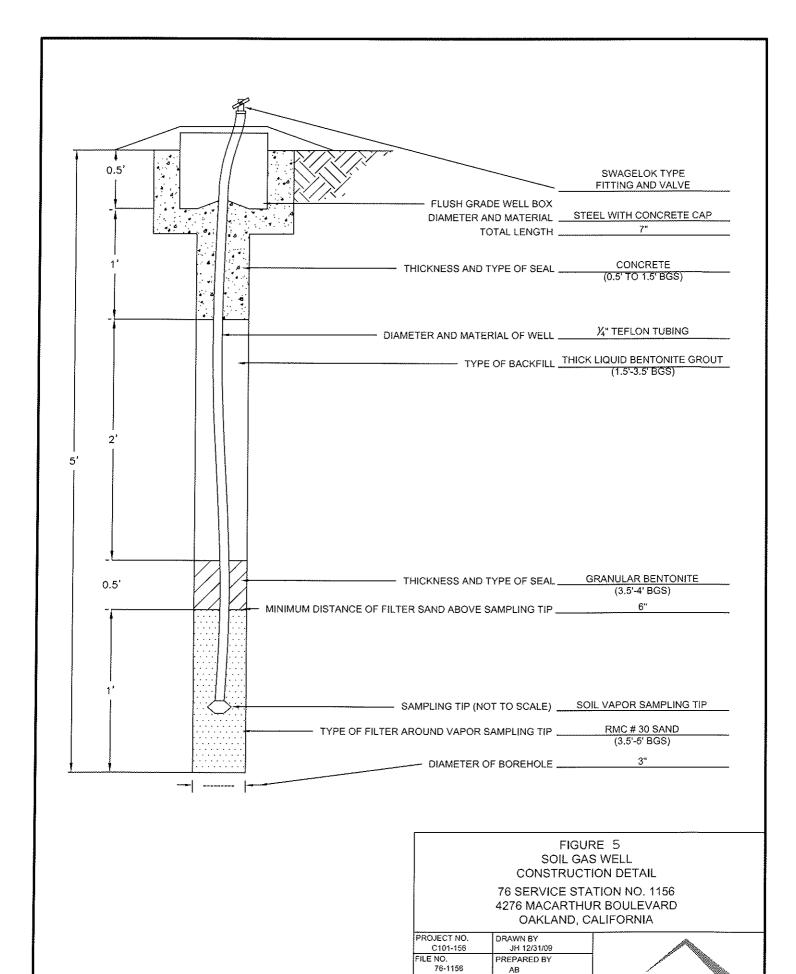
	Project No:	C101156			lient:		COP	Boring/Well No: MW-1B
	Logged By:	Alan Buel			.ocatic		Oakland	Page 2 of 2
Dalta	Driller:	Gregg Dri	lling		Date D		, ,	
Delta	Drilling Metho				fole D			
	Sampling Met		Split Sp					
•	Casing Type:				Vell Di			
Consultants,	Slot Size: Gravel Pack:	0.02			Vell De		25' Depth: 23.5'	
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	Elevation:		Northing	<u></u>	ocacic i		Easting:	-
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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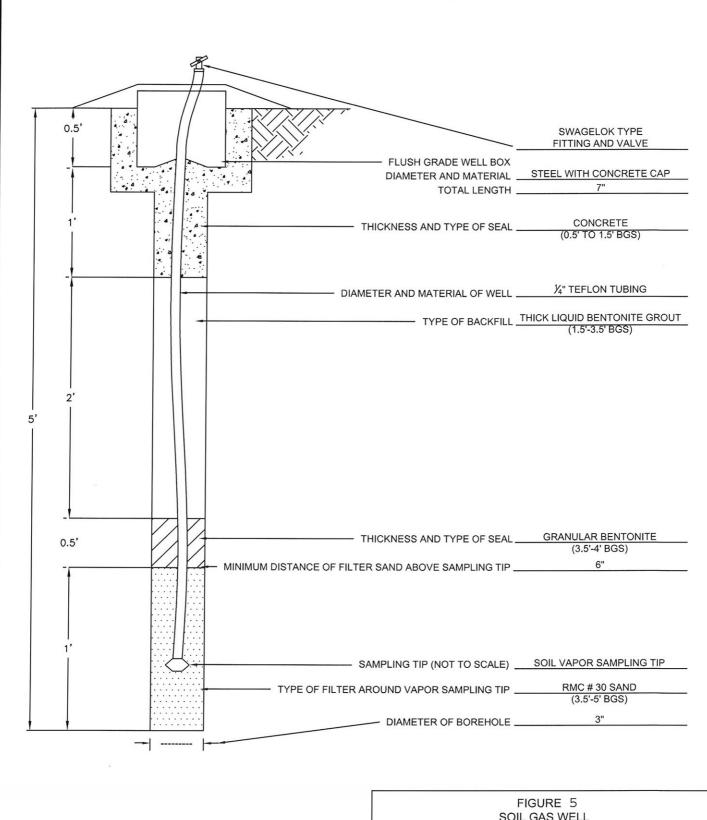


REVISION NO.

REVIEWED BY

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

		Project	- No.	C101156			Clier	à+,	COB	Boring/Well No: SVW-3
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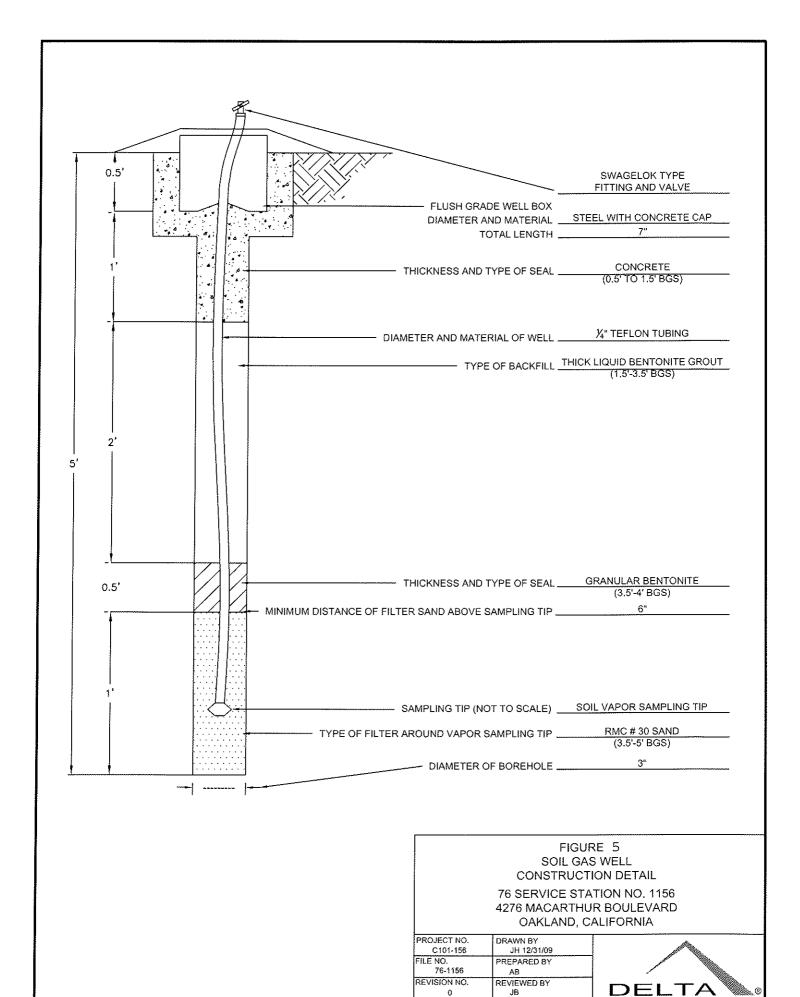
SOIL GAS WELL CONSTRUCTION DETAIL

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



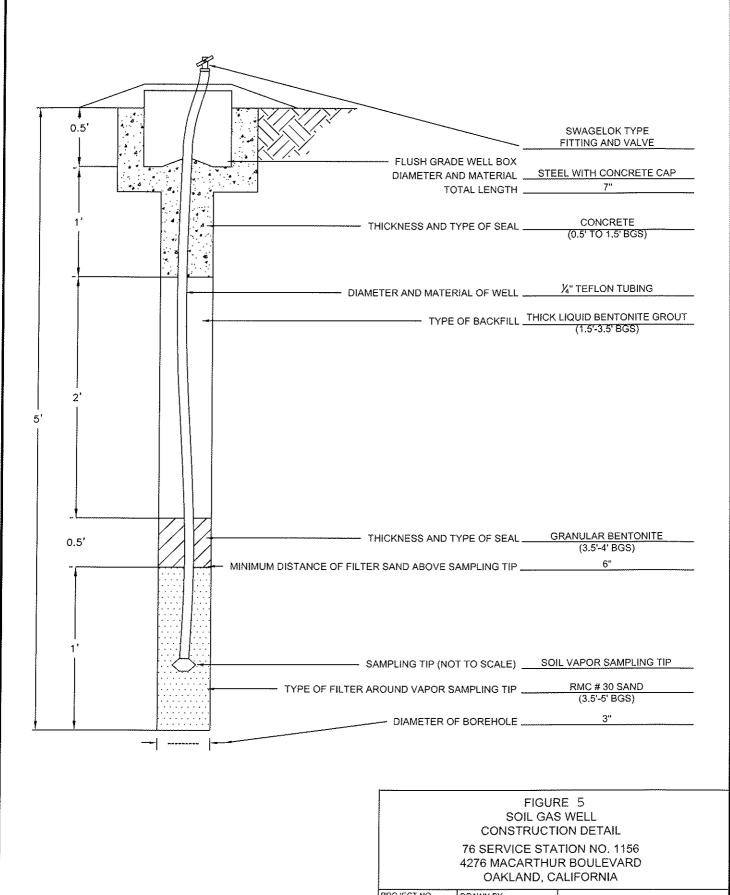
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

		Project		C101156			Clier		СОР	Boring/Well No: SVW-2
		Logged		Alan Bueh				ition:	Oakland	Page 1 of 2
	- ~	Driller:		Gregg Dri			Date	e Drille		
Delt	d			Hand Aug	er		Hole	Diame	eter: 36"	
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		Gravel		#30		\blacksquare			Depth:	
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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		Projec		C101156			Clier		COP	Boring/Well No: SVW-1
		Logge		Alan Buel				ition:	Oakland	Page 1 of 2
	_	Driller		Gregg Dri			Date	e Drilled	d: 8/9/2010	
Delt	\boldsymbol{a}	Drilling	g Method:	Hand Aug	er		Hole	Diame	eter: 36"	
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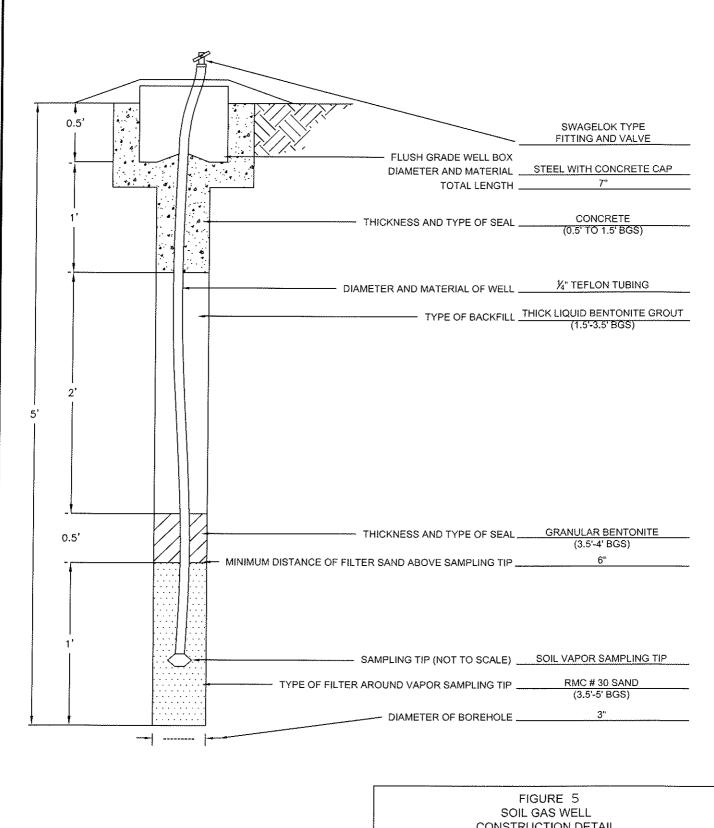
PROJECT NO.	DRAWN BY
C101-156	JH 12/31/09
FILE NO.	PREPARED 8Y
76-1156	AB
REVISION NO.	REVIEWED BY
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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CONSTRUCTION DETAIL

PROJECT NO.	DRAWN BY
C101-156	JH 12/31/09
FILE NO.	PREPARED BY
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REVISION NO.	REVIEWED BY
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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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		Projec Logge		C101156 Alan Bueh	dar		Clie		COP	Boring/Well No: SVW-5 Page 1 of 2
l		Driller						ition:	Oakland	Page 1 of 2
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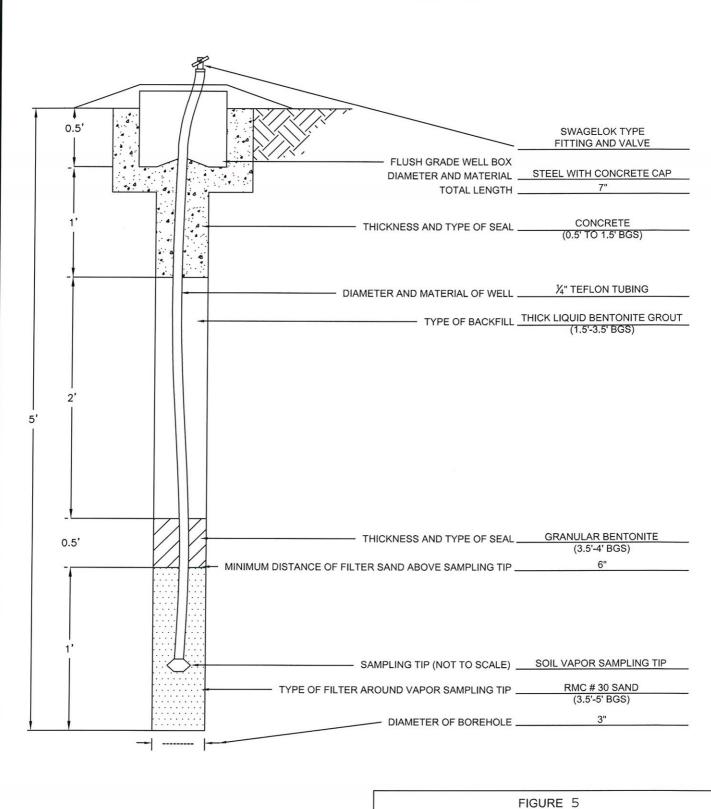


FIGURE 5 SOIL GAS WELL CONSTRUCTION DETAIL

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



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

		Project	i No:	C101156	<u>,—</u>		Clie	nt:	COP	Boring/Well No: SVW-4
		Logged		Alan Bueh	ler			ation:	Oakland	Page 1 of 2
└	L _	Driller:	:	Gregg Dril	lling			e Drilled	d: 8/10/2010	
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					21			Ī	######################################	199,044.9,100.00.00.00.00.00.00.00.00.00.00.00.00.
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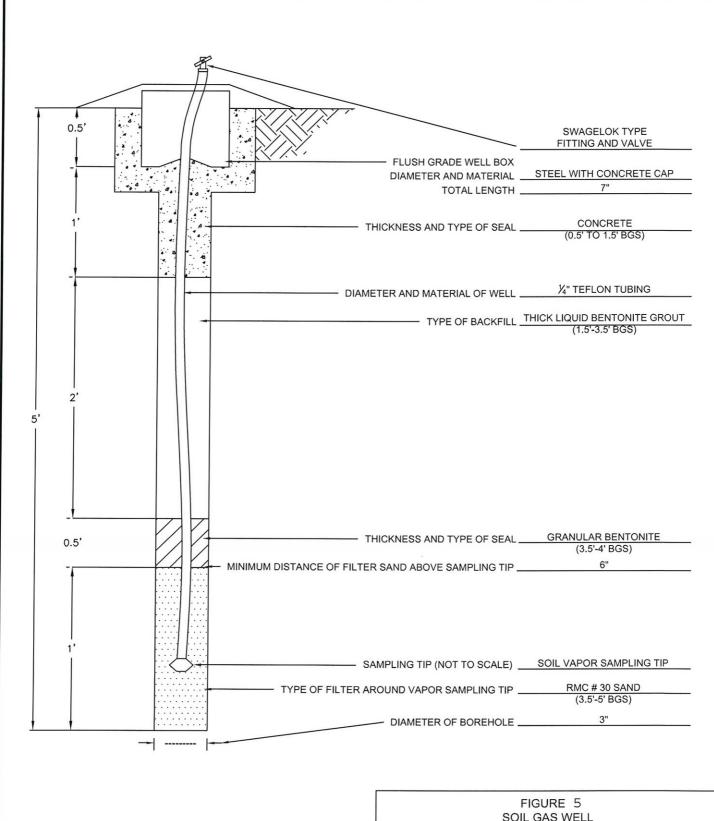
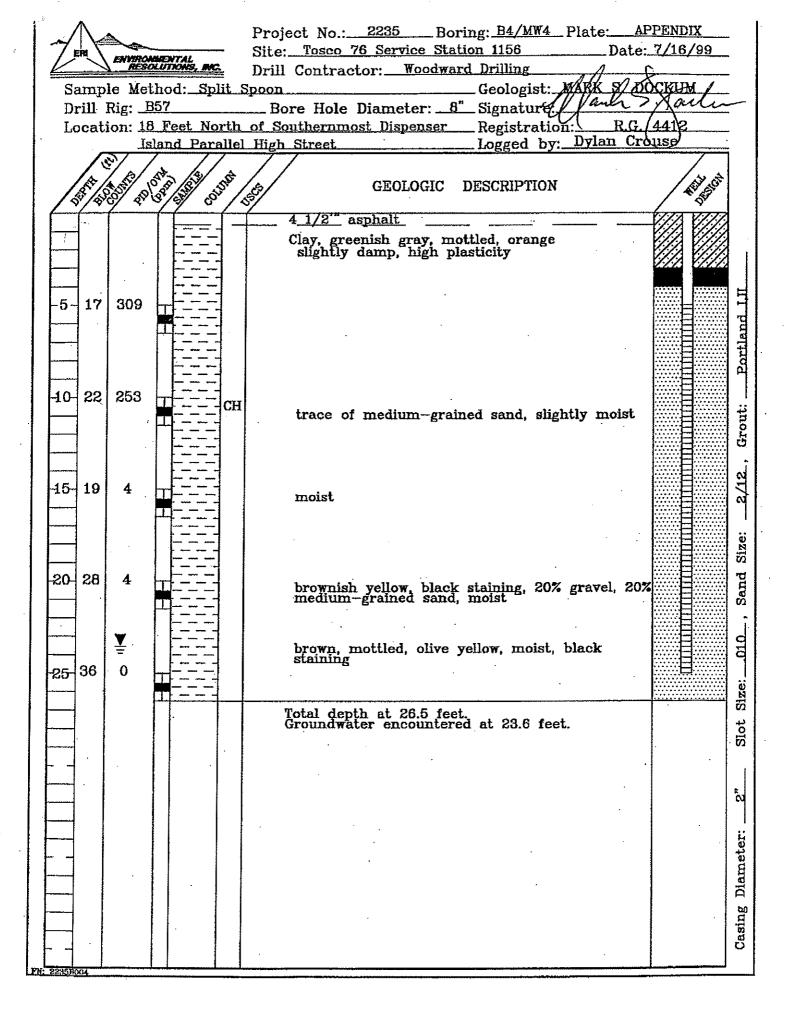


FIGURE 5 SOIL GAS WELL CONSTRUCTION DETAIL

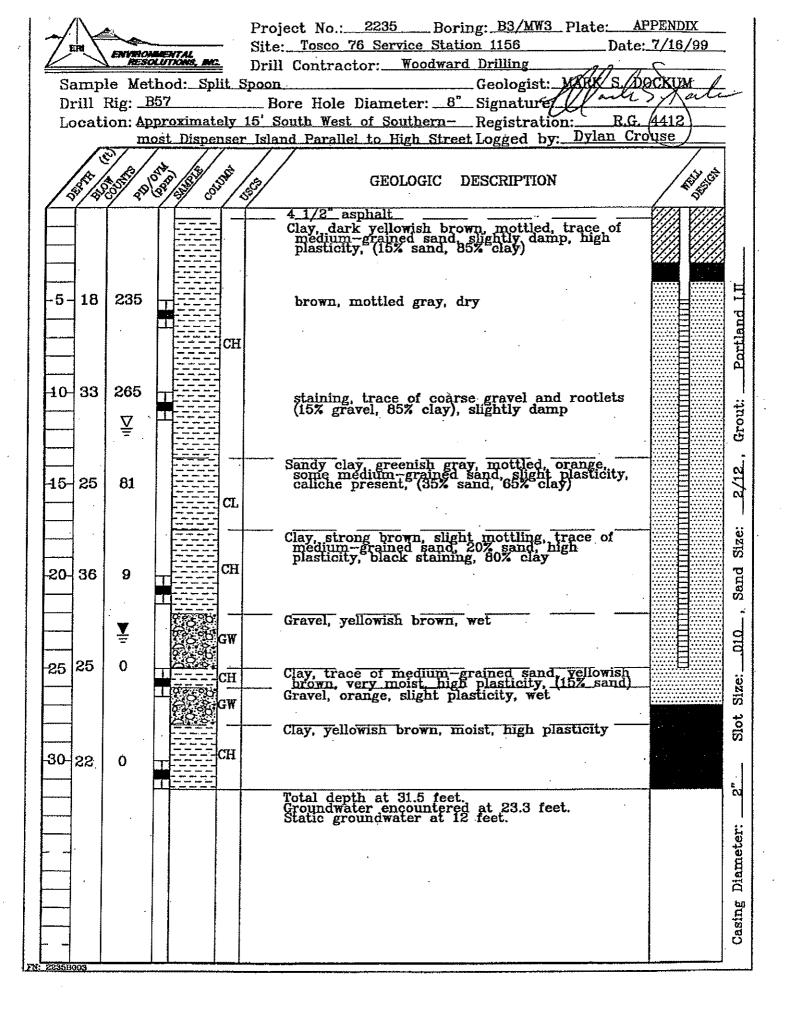
PROJECT NO. C101-156	DRAWN BY JH 12/31/09	
FILE NO. 76-1156	PREPARED BY AB	
REVISION NO. 0	REVIEWED BY JB	



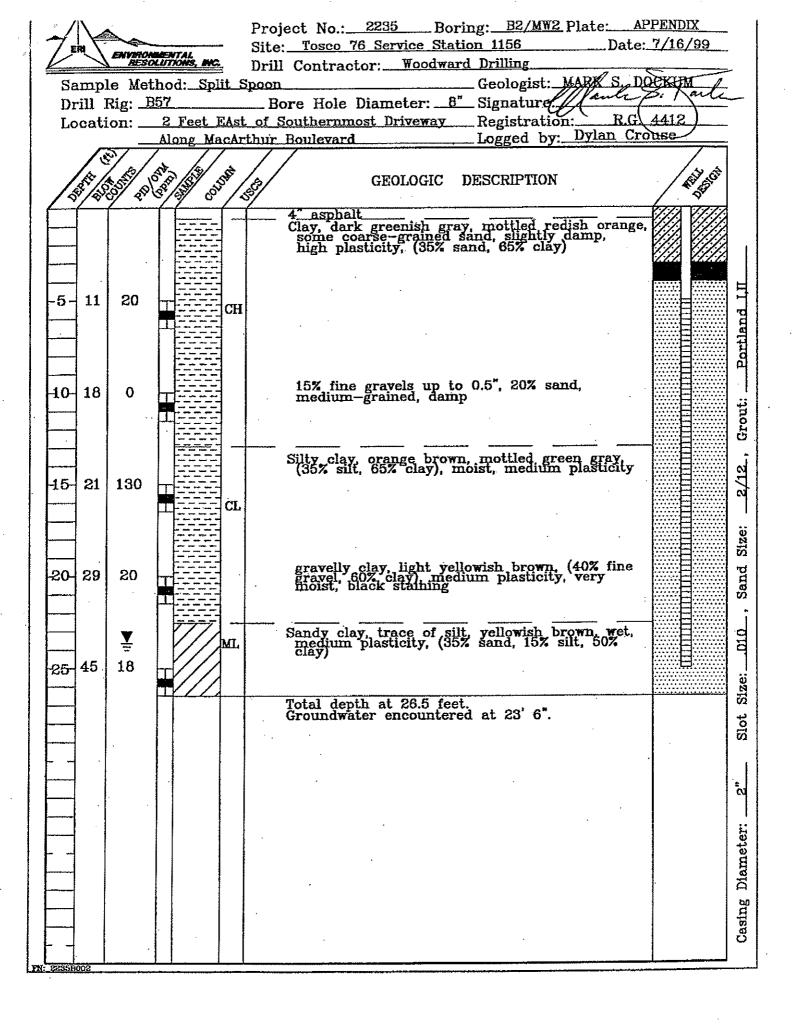
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



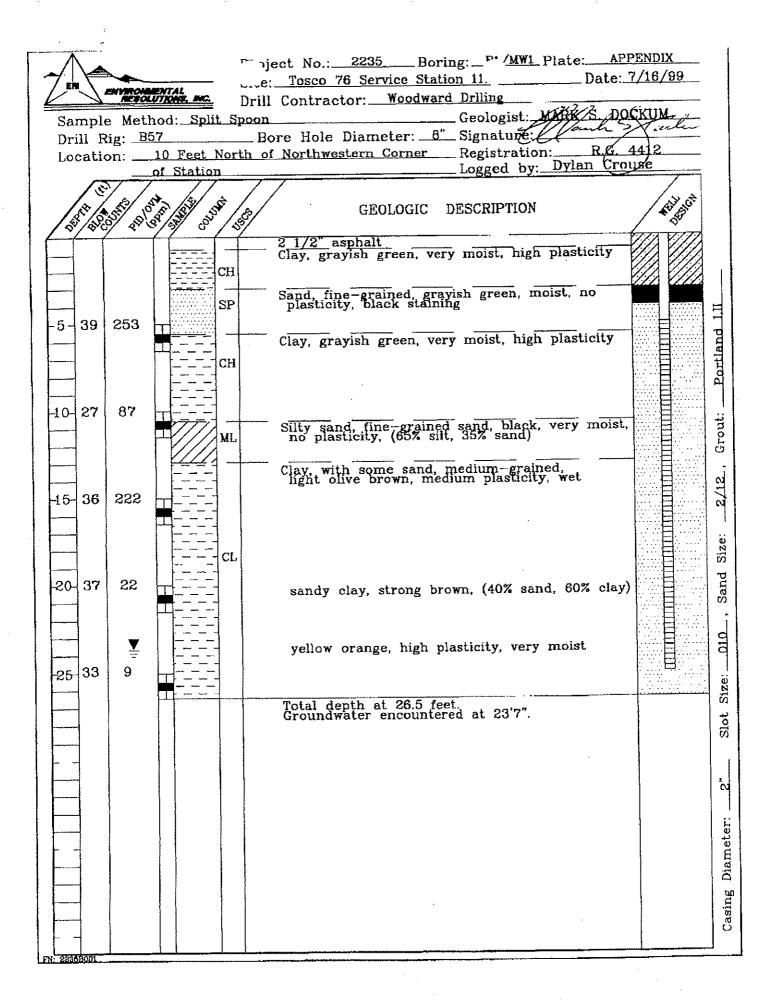
STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)



STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

Project No: C101136151 Logged By: Tabbitha Croy					ient: Cor			ed .	Well No: MW-8 Date Drilled: 10/30/07	
						LOCALION. 1210 HADEN THE DESIGNATION OF THE PARTY OF THE			Page 1 of 2	
) alta	1		rilling &	lesting		ole Diame			<u>. </u>	11 age 2 or 2
Delta	Drilling I			2000		ole Diame ole Depth			▽ =	First Water
			d: Split S hedule 4			ole Depth eli Diame				- THE Water
Consultants	Slot Size			UPVC		ell Depth			▼ ::	Static Groundwater
	Gravel P					rst Water		23'	,,,, L	
		Elevatio			Northin		T	Easting	* =	Selected for lab
	1	Ficatio	''		100 100	ə				analysis
Well		9	도		Samp	la l				
Completion Static	Moisture Content	ip (-	atic	fee	l '	Ď		•		
Backtill Water Casing Level	ste	Rea	Sample entíficatí	5	ê.			LITHO	LOGY /	DESCRIPTION
∰ Sacrita Casing Level	ΣΩ	PID Reading (ppm)	Sample (dentíficatíon	Depth (feet)	Recovery	Soil Ty	ł			
ь О		ρ.	ŭ	. 	Α,	ä	<u>.</u>			
Well Box		!		_		of the second		Concrete = 6	" टाट करुटा	orown; medium soft;
	1 1			1			CL			
					\vdash			medium to nig	n piastic	ity; low toughness;
			ife	2	╂	_	§	trace orange n	iocumg,	moist; (0,0,100)
			Air-Knife	_	1	-83				
			4	3	-					
Neat Cement			44	p.,	┼	-				A STATE OF THE PARTY AND THE P
				4	+					
			1	,	-		3			
	moist	0.1	<u>@ 5</u>	5	1 1.		CL	Lean clay: bl	ack: me	dium stiff; medium
	1,10136	U, I	9:46		╁╼┼			plasticity and	oughne	ss; some fine sand;
			2. 10	6—				some fine to n	nedium :	sub round gravel;
				-		<u> </u>		moist; no odo		
				7 —						- 4 January
				-	1-1-		1			
	1			8	1					
					+		<u> </u>			
			ł	9	1					
				-	1-1		A		Meles 11 - 11 - 11 - 11 - 11 - 11 - 11 - 11	
	moist	0.2	@ 10*	10-		A	1	Tan; some ora	inge mo	ttling; trace roots;
			9:51	-				some black st	aining; s	light odor; (5,15,80)
			[11		T		an amend the second second		.,
			1	-			3	2.200 cm / mm +		
				12	1					
	1		1	-	1-1			A CALL OF THE PROPERTY.		
2020				13	+-+					
]	1 1		M			
				14	 		¥			
		}			1					
	moist	0.2	@ 15*	15 —		A	CL	Sandy clay:	tan; ora	inge mottling; trace
			9:56	-				roots: trace b	lack stai	ining; medium stiff;
		1		16		1		medium plast	icity and	i toughness; sand fin
		ļ		-				grain; moist;	no odor	; (0,40,60)
	1	1		17—	1 1			. 10E - 11000-5 12-12-12-10-10-5-11-		
				1.0	1 1			. III. I married top the control of		
		<u> </u>		18-	1				Company of the Control of the Contro	
	moist	0.2	@ 20*	1	77	不認識		Soft; medium	to high	plasticity; low
	1		10:P37		1-1			toughness; (C		
			1	_		T			E	
4	-		1	20-	777			The second sector of the		
				1 -	11		1			
			•	21	+		sc			
										The state of the s
				22 —	1-1					to did the second secon
		<u> </u>		<u></u>		1000000				
										The second secon

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Well No: MW-8 Client: ConocoPhillips Project No: C101156151 Date Drilled: 10/30/07 Location: 4276 MacArthur Boulevard Logged By: Tabbitha Croy Page 2 of 2 Driller: Gregg Drilling & Testing Oakland, CA Delta Hole Diameter: 8" Drilling Method: HSA Sampling Method: Split Spoon Hole Depth: 25' Casing Type: Schdule 40 PVC Well Diameter: 2" Consultants Well Depth: 25' = Static Groundwater Slot Size: 0.010" First Water Depth: 23' Gravel Pack: #2/12 * = Selected for lab Easting Elevation Northing analysis Well PID Reading (ppm) Sample Identification Depth (feet) Sample Completion Moisture Content Soll Type Static LITHOLOGY / DESCRIPTION Recovery Casing Water Level ∇ 23 Clayey sand; tan; orange mottling; medium grain; poorly graded; loose; wet; no odor (0,65,35)26 Total Depth = 25 feet bgs 27 28 29 30 32 34 36 37 39

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

	Project No.: 2235 Boring: MW6 Plate: At Site: Tosco 76 Service Station 1156 Date:	tachment 8/29/01
	Bore Hole Diameter: B"_ Signature: 16 (4)	以
Location: Western side	ie of MacArthur Boulevard Registration: R.G. feet north of Shell station Logged by: Rob Saur	4313
		ALL SERVER
	8" Concrete	
-5- 24 10.6 =	CLAYEY SILT: greenish gray, very moist, medium plasticity.	
10 19 10.0 MI	light brown, trace of fine-grained sub-angular sand (approx. 5%).	
24 6.0	CLAYEY SILT WITH SAND: light brown, fine-grained sub-angular sand (approx. 15%).	
20 48 7.7	SAND WITH SILT: orange brown, wet, medium- grained well-sorted well-rounded sand.	
25 5"	Boring terminated at 25 feet. Boring converted to groundwater monitoring well. Groundwater encountered at 5.5 feet.	
N: 22959008		

APPENDIX E

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

	1	Project No: C101156					Clion	+.	COP	Roring/Wall No. MW-1R		
		Logged		Alan Bueh	ler		Clien Loca		Oakland	Boring/Well No: MW-1B Page 1 of 2		
		Driller:	Dy.	Gregg Dril				Drilled		1 age 1 01 2		
Delta	2		Method:	HAS	9			Diame				
	a		ng Method		Split Sp	oon						
Consultant		Casing	-	Sch 40				Diame				
		Slot Siz	e:	0.02				Depth				
		Gravel I	Pack:	2/12					Depth:			
		Flaces			INI to - :	∇	Stati	c Wate	r Depth:			
Well		Elevatio			Northing]: 			Easting:	1		
Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Recovery &	Interval ald	Soil Type	LITH	HOLOGY / DESCRIPTION		
Bac	Wa	∑ O	PID	S	Dep	Reco	Inte	Š				
					_				Airknife to 5' Brown and grayish	n-sarren clav		
					1 —				Brown and grayisi	1 Sgirt ett etay		
					2 —							
					3—							
_												
					4 —	-	\vdash					
-					_							
			299	MW-1B	5 —			CL	Greenish-gray san	dy lean clay with gravel, 15%		
_				-5	6					, strong odor, damp		
					6—							
					7 —							
_					-							
					8 —	-						
-					-							
					9 —							
					10 —							
			173	MW-1B	10—			CL	, , , , , , , , , , , , , , , , , , ,	th sand, mottled with granular		
				-10	11 —				ÿ	erial, 20% sand, strong odor,		
					-				moist			
					12 —							
-					-	-						
					13 —							
\dashv												
					14 —							
					15 —							
			952	MW-1B	_			CL		fine-course sand, 35% sand,		
				-15	16 —				strong odor, damp)		
_					-							
					17 —							
\dashv					10		\vdash					
					18—							
					19 							
					20 —			٥.	D			
			19	MW-1B -20				CL		clay with gravel, 30% sand, 10%		
_				-20	21 —			CI		strong odor, wet a clay with sand, 25% sand, some odor,		
\dashv								CL	damp	Sanu, 25% Sanu, some odor,		
\dashv					22 —	1	\vdash		чапр			
				I	1	1			l			

-	T						I
	Project No:	C101156			ent:	COP	Boring/Well No: MW-1B
	Logged By:	Alan Bueh			cation:	Oakland	Page 2 of 2
	Driller:	Gregg Dri	lling		te Drilled		
Delta	Drilling Metho		0 111 0		le Diame		
	1 9						
Environmental	Casing Type:						
Consultants,	Slot Size: Gravel Pack:	0.02 2/12			ell Depth	: 25' Depth: 23.5'	
Inc.	Graver Pack:	2/12				er Depth:	
	Elevation:		Northing:		atic wate	Easting:	7
Well	D D	۲ ۵	ı Ç	Sampl		Ü	•
Backfill Casing uoitaldwoo	Moisture Content PID Reading	Penetration (blows/6")	Depth (feet)	Recovery 6	Ō.	LITI	HOLOGY / DESCRIPTION
	<u> </u>	+ -		<u>~</u> -	-		
			23		CL	Brown sandy gray	ely clay, 25% sand, 10% gravel,
 			1. 7		 	saturated, mild or	
			24 —		CL		, 15% samp, mild odor, damp
	44	MW-1B					
	-25 25					Total Depth	= 25'
			124 -				
			26				
			27				
_							
			28 —		_		
_			 				
			29 —				
			30				
			31				
			32 —				
			33				
					4		
			34				
			35				
					\dashv		
			36				
			37				
			38				
			-		\dashv		
			39]		
			40 —		\dashv		
			41		7		
			-				
			42				
			43				
			44				

	Project No:	C101156	alor.		Clien		COP	Boring/Well No: MW-2B			
	Logged By: Driller:	Alan Bueh Gregg Dri			Loca	tion: Drilled	Oakland d: 8/16/2010	Page 1 of 2			
Delta	Drilling Method		illig			Diame					
Dena	Sampling Method		oon			Depth					
Consultants	Casing Type:	Sch 40	3011			Diame					
	Slot Size:	0.02				Depth:	: 25'				
	Gravel Pack:	2/12		\blacksquare			iter Depth:				
				∇	Stati	c Wate	r Depth:				
Well	Elevation:		Northing	g: 	1		Easting:	l .			
	Moisture Content PID Reading	Sample	eet)	Sar	mple	e					
Sackfill Casing unital dumon water Level	Moisture Content ID Readin (ppm)	Sample	Depth (feet)	Sr.	ā	Туре	1111	OLOGY / DESCRIPTION			
Backfill Casing Water L	Moi Cor D R	Sar	eptk	Recovery	Interval	Soil					
° S N N N N N N N N N N N N N N N N N N	<u> </u>	<u>p</u>	ă	Rec	=	• ,					
_			_				Airknife to 5'				
			1			CL	Brown and greenis	sh lean clay with sand			
_			' -								
			2 —								
-			_	+							
			3 —								
_			, -								
			4 —								
			5								
_	181		_			CL		mottled lean clay with sand, odor, damp			
		-5	6 —	+			15% sand, strong				
_			_								
			7 —								
_			-								
			8 —								
			9 —								
_			_								
	0	MW-2B	10 —			СН	Greenish fat clay	dense, damp, odor			
_		-10	_			CII	Orcernsir lat clay,	derise, damp, odor			
			11 —								
			12 —								
			_								
			13 —								
_			_								
			14 —	+							
	120	MW-2B	15 —			CL	Green lean clay wi	th sand, 15% med-course sand,			
		-15	16—				damp, odor				
_			-								
			17 —	-							
			-	-	\vdash						
			18 —								
			19—								
			19—								
			20 —			٠.					
	8	MW-2B	_			CL		lay with sand, 15% sand, fine-			
		-20	21 —	-			med sand, damp,	oaor			
			22 —	+	\vdash						
		<u> </u>	1				I				

	Project No:	C101156		Clien	t:	COP	Boring/Well No: MW-2B
	Logged By:	Alan Buehle		Loca		Oakland	Page 2 of 2
	Driller:	Gregg Drilli	ng		Drilled		
Delta	Drilling Meth				Diame		
		ethod: Split S	poon		Depth		
	Casing Type Slot Size:	0.02			Diame Depth:		
	Gravel Pack:		_			Depth: 23.5'	
THC.	Oravor radic.	27.12	$\overline{\Sigma}$			r Depth:	
VA/ . II	Elevation:		Northing:			Easting:	
Well Completion	ure ent ading	ation /6")	(feet)	ample	уре		
Backfill Casing uoipplement	Moisture Content PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Interval	Soil Type	LITH	HOLOGY / DESCRIPTION
_			23			Brown lean clay wi	ith sand, 25% sand, some gravel,
			24			mild odor	
			24		CL	Black/brown mottl	ed clay, damp, mild odor
	190	MW-2B -25	25			Total Denti	251
		-25	26			Total Depth	= 20
			27				
			<u> </u>				
			28				
			29				
			30				
			31				
			32				
			33				
			34				
-			l 				
			35				
			36				
			37				
			38				
			39				
			40				
			41				
			42				
			43				
			43				
			44				

	Project No:	C101156	lor	Clie		COP	Boring/Well No: MW-3B Page 1 of 2		
	Logged By: Driller:	Alan Bueh Gregg Dri			ation: te Drilled	Oakland d: 8/16/2010	Page 1 of 2		
Delta	Drilling Method		iiiig		e Diame				
Della	Sampling Meth		oon		e Depth				
Consultants	Casing Type:	Sch 40			II Diame				
	Slot Size:	0.02			II Depth				
	Gravel Pack:	2/12			st Water				
	Elevation:		Northing		tic Wate	er Depth: Easting:	4		
Well						Lasting.			
Sackfill Casing Loiseldmoo	Moisture Content PID Reading (ppm)	Sample	Depth (feet)	Sample	be				
rfill ng er L	Moisture Content D Readin (ppm)	Sample	FF (Recovery	Soil Type	LITH	HOLOGY / DESCRIPTION		
Backfill Casing Water I	M O O O O	Ss	Dept	Recovery	Sol				
B 0 /		<u> </u>		8 -					
_			_			Airknife to 5'	with and agree are also		
			1 —	+	CL	Brown lean clay v	vith sand, some gravel, no odor		
\dashv					┪				
			2—		_				
			3—						
_				$\perp \perp$					
			4 —	+	4				
_			_	+ + -	1				
	6	MW-3B	5 —		CL	Light brown/greer	nish mottled clay, moist, slight		
		-5	_			odor	sir mottled clay, moist, slight		
			6—						
			7 —		4				
			_	+	+				
			8 —	+ +	-				
			9_		1				
			9						
		NAVA O D	10 —	\vdash					
_	36	MW-3B -10	_		CH		n/black mottled lean clay with nd, damp, mild odor		
		-10	11 —		1	Sanu, 1576 nne sa	nia, damp, mila odoi		
			10		1				
			12 —						
			13 —						
_			_		4				
			14 —	+	+				
_				 	1				
	790	MW-3B	15 —		CL	Light brown/greer	n mottled lean clay with sand,		
		-15	16—			20% fine-med sar	nd, damp, strong odor		
_			-		4				
			17 —		4				
_			_	+ +	┪				
			18 —		1				
			19—]				
_					_				
	9	MW-3B	20 —			Light brown fot -!	ov domn mild odor		
	9	-20	_		СН	Light brown fat cla	ay, damp, mild odor		
			21 —		CL	Dark brown lean of	lay with sand, 15% fine sand,		
			22 —]	damp, mild odor	,		
]									

	1								I
	Projec		C101156			Clier		COP	Boring/Well No: MW-3B
	Logge		Alan Buehle				tion:	Oakland	Page 2 of 2
$D_{\Delta}I_{\Delta}$	Driller		Gregg Drilli	ng			Drilled		
Delta	Drilling			Colit Coo			Diame		
		ing Me	Sch 40	Split Spo			Diame		
	Slot Si		0.02				Depth		
Consultants, Inc.		Pack:						Depth: 23.5'	
1110.	Ciavoi	i i doit.	2, 12					er Depth:	
	Elevati	ion:		Northing				Easting:	
Well $^{\oplus}$ Completion		ng	E .	et)	San	nple	d)		
D	Moisture Content	adi m)	Penetration (blows/6")	Depth (feet)			Soil Type		HOLOOY / DECODED TON
Backfill Casing Water L	lois	Re (pp	netr Iow) th	ove	erv?) II	"	HOLOGY / DESCRIPTION
Вас Са Wa	≥ 0	PID Reading (ppm)	Per (b	Dep	Recovery	Interval	Š		
				23 —					
				24 —			,		
_				_			i		clay with sand, 30% fine-med
		15	MW-3B	25 —			CL	sand, moist, very	
_			-25	-			,	Total Depth	= 25
				26 —					
_							,		
				27 —					
				28—			,		
_				_			,		
				29 —					
_				_			i		
				30 —					
				_			ı		
				31—					
				32 —					
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				33 —					
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				34 —					
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				35—					
				36—					
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				37 —					
				_					
				38 —					
				39—			•		
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				42 —					
				43 —					
				-					
				44					

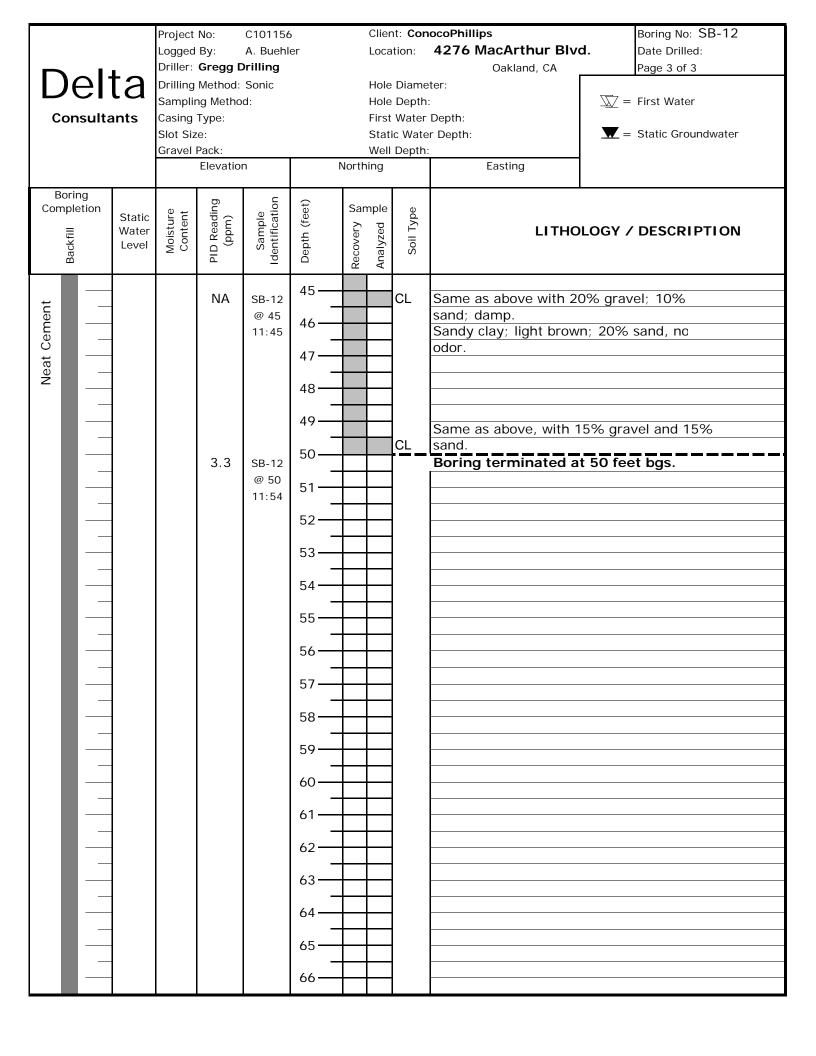
	Project No:					Clien		COP	Boring/Well No: MW-4B		
	Logged By: Driller:		Buehler			Loca		Oakland	Page 1 of 2		
$D \cap I + 2$	Driller: Drilling Met		g Drillin	ıg			Drilled Diame				
Delta		nou: наз lethod: Spli	t Cnoon	_			Depth				
Consultants	Casing Type	-	-	1			Diame				
Consultants	Slot Size:	0.02	.0				Depth:				
	Gravel Pack				\blacksquare			Depth:			
					$\overline{\nabla}$			r Depth:			
	Elevation:	•	N	lorthing	J:			Easting:	1		
Well Completion ⊕		<u> </u>	u G	_	Sar	mple					
(e)	Moisture Content	(ppm) (ppm) Sample	dentification	Depth (feet)			Soil Type				
cer (er	ont	(ppm)	ţi ţi	£	ver	rva	_ H	LITH	IOLOGY / DESCRIPTION		
Backfill Casing Water L	§ 0 0	S	den	Эер	Recovery	Interval	Sc				
ш о		-			Ř						
_							00	Airknife to 5'	-1		
				1 —		-	GC	Brown clayey grav	el with sand,		
				2 —							
_				_							
				3 —							
				_					vel with sand, cobbles up to 4" ell graded sand with silt and d, 20% gravel, no odor		
				4 —			GW	Well graded gravel			
				5 —							
_	2	2.1 MW	_	· _							
		-	5	6 —			SM	gravel, 60% sand,			
_				_							
				7 —							
_											
				8 —							
_				_							
				9 —							
				- 10 —							
	14	401 MW	-4B						sand with silt, 60% fine sand,		
		-1	0 1	11 —			SM	strong odor			
			'	·							
			1	12 —							
_						-					
			1	13 							
_				_							
			1	14 —							
				 15	L						
	1	9.5 MW	-4B	. J			CL		led lean clay with sand, 15% fine		
		-1	5 1	16 —				sand, some odor			
			Ι΄	_							
			1	17 —	-						
				_	-	\vdash					
			1	18 —							
			_	_							
			[1	19—							
			_ 2	20 —							
		MW	-4B				CL		ed sandy lean clay, 30% fine-		
		-2	^{'U} 2	21 —	_			med sand, some o	dor		
					<u> </u>						
-			2	22 —							
								l			

								I		
			C101156			lient:	COP	Boring/Well No: MW-4B		
		_	Alan Buehle			ocation:	Oakland	Page 2 of 2		
	Driller		Gregg Drilli	ing		ate Drille				
Delta	Drillin	g Meth				ole Diam				
	Samp	ling Me		Split Spoo						
Environmental			Sch 40			/ell Diam				
Consultants,	Slot S		0.02			/ell Deptl				
Inc.	Grave	l Pack:	2/12				r Depth: 23.5'			
	Elevat	tion:		Northing:		tatic Wat	er Depth: Easting:			
Well _	Licvar	1	_			. [Lasting.	L .		
Backfill Casing uoitaldwoo	e t	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Samp	Q				
ا ا ق	Moisture Content	kea(tra ws/	ر) (Recovery	Interval a	LI	THOLOGY / DESCRIPTION		
Backfill Casing Water L	Moi	ا الم ع	ene	epth	200	ter Soil				
		Ы	9 C	ď	Re	⊆ °′′				
				23						
				23						
				24—						
				- '						
		19	MW-4B	25		CL		, 10% fine-med sand, some odor		
			-25	-		_	Total Dep	tn = 25°		
				26		_				
				<u> </u>		_				
				27		_				
				- 						
				28		-				
				l -1						
				29						
				30						
				31						
				32						
				-	_	_				
				33						
				1 -		\dashv				
				34	+					
				1 +		 				
				35		$\overline{}$				
				1, +		-				
				36						
				37						
				37						
				38						
				"						
				39						
				-		_				
				40	+	\dashv				
				-	+					
				41 —	+	\dashv				
				+	+	- 				
				42		\dashv				
				+	\dashv	- 				
				43		\neg				
	1		1	44						

Boring Completion	Itants	Drilling	By: Gregg C Method: ng Metho Type: e:	Sonic d:		Loca Hole Hole Firs Sta	ation: e Diame e Depth t Water tic Wate	: 20' Depth: er Depth: : Easting	∑ = ▼ =	Boring No: SB-19 Date Drilled: 06/15/10 Page 1 of 1 First Water Static Groundwater DESCRIPTION
Neat Cement			33.7 26.9 55.3	SB-19 @ 7.5 2:30 SB-19 @ 10 2:30 SB-19 @ 20 2:52	1 — 2 — 3 — 4 — 5 — 6 — 7 — 10 — 11 — 12 — 13 — 14 — 15 — 16 — 17 — 18 — 20 — 21 — 22 — 22 — 22 — 22 — 22 — 22		CL- ML	Same as above Same as above Sandy glay; lig contamination	gravel; q	

Bo Com	Packfill Bac	Drilling	By: Gregg C Method: ng Metho Type: e:	Sonic d:		Loca Hole Hole Firs Stat	nt: Cor ation: e Diame e Depth t Water tic Water I Depth	Boring No: SB-12 Date Drilled: 06/14/10 Page 1 of 3 = First Water = Static Groundwater		
Neat Cement			5.2 30.1	SB-12 @ 12 9: 44 SB-12 @ 10 9: 58 SB-12 @ 15 10: 25	1 — 2 — 3 — 4 — 5 — 6 — 7 — 11 — 12 — 13 — 14 — 15 — 16 — 17 — 18 — 20 — 21 — 22 — 22 — 22 — 22 — 22 — 22		CL	Sandy lean clay with visible green contamed as above. Saturated as above.	r; light b	rown; wet.

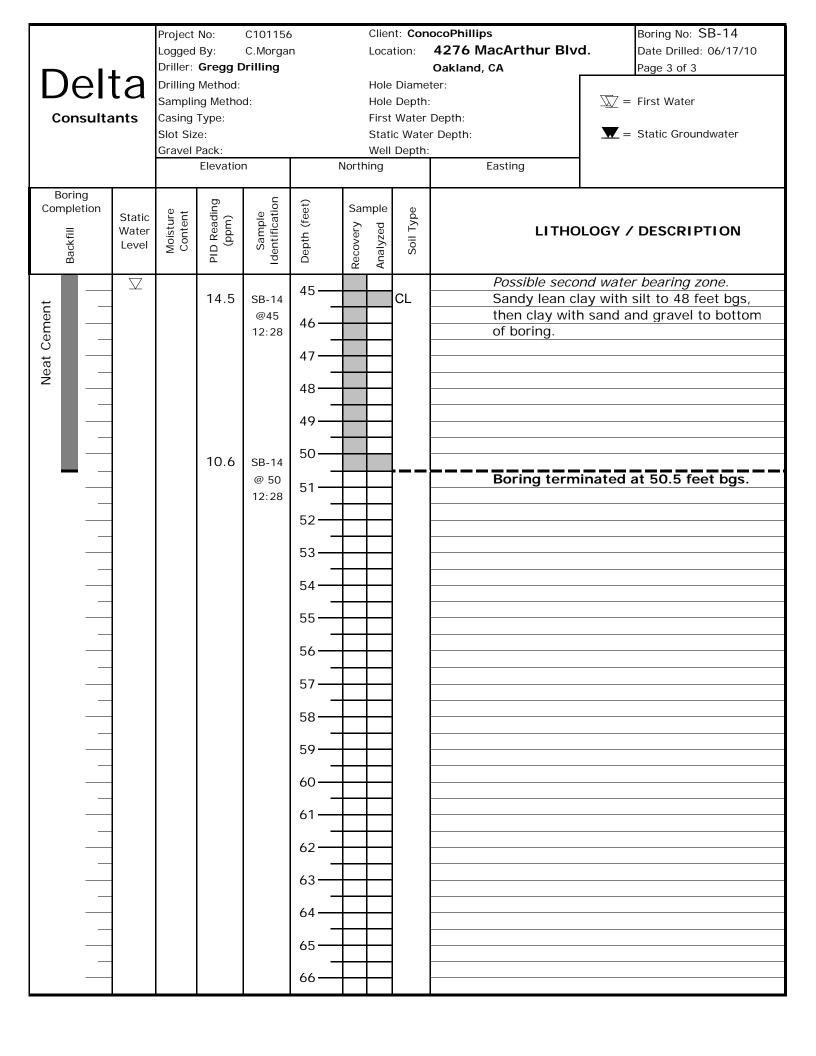
			Project	No:	C101156			Clier	it: Con	ocoPhillips		Boring No: SB-12		
			Logged		A. Buehle	er		Loca	tion:	4276 MacArthur Bl	vd.	Date Drilled:		
I r	_ 1.	L _		Gregg D						Oakland, CA		Page 2 of 3		
	el.	TA.		Method:				Hole	Diame	ter:				
				ng Metho	d:				Depth:		∑ =	First Water		
Co	nsulta	ants	Casing							Depth:	_			
			Slot Siz							ter Depth: y = Static Groundwater h:				
			Gravel I	Elevatio	ın.		North		Depth:	Easting				
				Lievatio		·	voi ti	mig		Lasting				
	ring			g	L.	$\overline{}$								
	oletion	Static	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)		nple 	Soil Type					
	≣	Water	oistu onte	Rea	amp	th (/er)	zec/		LITHO	LOGY /	DESCRIPTION		
	Backfill	Level	ğΰ) []	S	Эер	Recovery	Analyzed	So					
\vdash				ь.			Ř	₹						
1 1						23 —								
Ę	_					_								
l we						24 —								
Neat Cement	_					_								
at	_					25 —								
Ne l						24								
1 1				10.2	SB-12	26—			CL	Same as above, very	stiff wit	h large gravel		
1 1					@ 26	27 —								
1 1					10:45	_								
1 1						28 —								
1 1	_					_								
1 1						29 —								
1 1	_					_								
1 1				NA	SB-12	30 —			CL	Same as above; dam	np.			
1 1					@ 30	_					T .			
1 1					10:47	31 —								
1 1						32—								
						_								
1 1						33 —								
	_					_								
1 1	_					34 —								
1 1	_													
1 1				3.5	SB-12	35 —			CL	Same as above.				
					@ 35]								
					10:58	36—								
						37—								
						´								
						38 —								
						_								
						39 —								
						40 —				No recovery.				
						111								
				5.6	SB-12	41 ——			CL	Sandy clay; <10% sa	ands; bro	own; moist;		
					@ 41	42 —				slight odor.				
					11:42	42								
						43 —								
	_					_								
						44								
					<u>I</u>					<u> </u>				



		Project	No:	C101156		nocoPhillips		Boring No: SB-13		
		Logged		A.Buehlei	r	Loca	ation:	4276 MacArthur B	lvd.	Date Drilled: 06/18/10
		Driller:	Gregg I	Orilling				Oakland, CA	_	Page 1 of 1
Del	ta		Method:				Diame			
			ng Metho	od:			Depth		<u> </u>	= First Water
Consulta	ants	Casing						Depth:	_	
		Slot Siz						er Depth:	_ ■	= Static Groundwater
		Gravel	Elevatio	nn.	1	Northing	Depth	: Easting	ł	
			Lievatie	711		rior triirig		Lasting		
Boring			D	ב	æ	Sample				
Completion	Static	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)		Soil Type			
₩.	Water	oisti	Rea	amp	 ₽	ver,	⊬́ =	LITHO	LOGY /	DESCRIPTION
Backfill	Level	ĕ ŏ) Old	Signer	dec	Recovery Analyzed	So			
			ш.			₫ ₹				
-					-					
				ō	1 —					
				e e	-					
				gn	2—					
J					3 —					
He -	=			Hand Augered						
Cer	-			=	4	+ + -				
Neat Cement	-									
8 -				SB-13	5—			Black, sandy, granul	lar, tar-l	like material, very
				@ 6	6—			strong odor		
				8:45					nated a	t 6 feet bgs due to
					7 —	 		refusal.		
					-	 				
					8 —					
					9					
					´ _					
					10 —					
	-									
					11 —					
					12-					
	1									
					13 —					
	-				-					
					14 —					
					15 —					
					16 —	 				
					-					
					17 —	 				
					18 —					
_					-	+				
					19—	+ + -				
_					_	+ + -				
					20 —	 				
					21 —					
					22—	+				
1	I	Ī			1	1 1	l	1		

			Project	No:	C101156		Clie	nt: Con	ocoPhillips		Boring No: SB-14
			Logged		C. Morgar	า	Loca	ation:	4276 MacArthur Bl	lvd.	Date Drilled: 06/17/10
	_			Gregg D	_				Oakland, CA		Page 1 of 3
)	el.	\mathbf{r}	Drilling	Method:	Sonic		Hole	Diame	eter: 3"		
1	\smile I	·u		ng Metho			Hole	Depth	:	▽ =	First Water
Co	nsulta	ants	Casing ⁻	_				-	Depth:		
			Slot Siz						er Depth:	▼ =	Static Groundwater
			Gravel F					Depth	•		
1				Elevatio	n	No	rthing		Easting		
					T			1			
	ring oletion			б	드	Ê d	ample				
		Static	Moisture Content	PID Reading (ppm)	Sample dentification	ΔŬ		Soil Type			
4	፟	Water	oist. onte	Re; ppn	Sample	<u></u>	ver /zec	<u>`</u> —	LITHO	LOGY /	DESCRIPTION
	Васкт	Level	ğŏ	<u>ا</u> اور	S	deC	Kecovery Analyzed	So			
<u> </u>				т.	<u> </u>		Y 4				
1								CL	Clay; green, vi	sible cor	ntamination; with
					_	l 1——			some tan, blac	k and wl	nite gravel.
					Hand Augered		\bot				
					ger	2					
					'n√						
					ў	3——	_				
					lan	+					
					エ	4 —					
						$\parallel \parallel$	_				
						5 —					
						- -					
						6	+				
						-	+				
						7 —	_				
int							-				
Neat Cement				3335	SB-14	8		CL	Lean Clay with	sand: d	ray with visible green
Ce				5555	@ 8			CL	contamination,		
at					11:50	9			Jointainination,	Jan Oring 1	odor, moisti
Ne											
				5553	SB-14	10					
					@ 10						
					11:50	11					
						1.0					
						12					
						₁₂					
						13					
						14					
				107.5		15					mall coarse grained
					@15			CL		gravel at	16.5 to 18 feet bgs;
					11:54	16			moist.		
						17					
						'					
						18					
						``					
						19					
						20		l	_		
				11.2	SB-14	~~ 		CL		e, with ir	ncreased fines at 21
		\sum			@ 20	21			feet bgs.		
					12:01	¯ ·					ontinued increased
						22		0.0	fines; gravel al	lso prese	ent.
								GC	Clayey Gravel	with san	d, thumb-sized white

			Project	No:	C101156			Clier	nt: Con	ocoPhillips		Boring No: SB-14
			Logged		C.Morgar	1		Loca	tion:	4276 MacArthur B	lvd.	Date Drilled: 06/17/10
	_ I.	L _		Gregg D	rilling					Oakland, CA		Page 2 of 3
\square	el.	la		Method:					Diame			
			-	ng Metho	d:				Depth:		✓ =	First Water
Co	nsulta	ants	Casing						Water		_	
			Slot Siz Gravel I						Depth:	r Depth:	<u> </u>	Static Groundwater
			Graveri	Elevatio	n		Nortl		Берии.	Easting		
								<u> </u>		3		
	ring oletion			бı	L _C	÷	Sar	mple				
		Static	Moisture Content	adir n)	ple	Depth (feet)			Soil Type			
	Backfill	Water Level	oist	Re (ppi	iam itifi	th	ver	yze	Ji T	LITHO	LOGY /	DESCRIPTION
ſ	Вас	Level	≥ 0	PID Reading (ppm)	Sample Identification	Dep	Recovery	Analyzed	Š			
								<u> </u>		rock present: I	ess odor	then at previous
						23 —				depths.	<u> </u>	then at previous
eu						_						
eП						24 —						
t C						25 —						
Neat Cement	_					_						
	_			11.9	SB-14	26 —			СН	Sandy fat clay	with ara	vol: arav. tan
	-			11.7	@ 26	_			CII	moist.	with gra	ver, gray, tarr,
					12:07	27 —						
						28 —						
	_					_						
	_					29 —						
	_					_						
				NA	SB-14	30 —			СН	Same as above		
	_			147 (@ 30	_			011	Garrie as above		
					12:07	31 —						
						32—						
	_					_						
						33 —						
	-											
						34 —						
				10.5	SB-14	35 —			CL			to tan; some small
					@ 35	36—				grained gravel	; firm; sl	ight odor; moist.
					12:16	_						
						37 —		\vdash				
						_						
						38 —						
						39—						
				10.5	CD 4.	40 —			01	Camara		
	_			18.5	SB-14 @ 40				CL	Same as above and softness.	e, with in	creased moisture
					12:22	41 —				anu sunness.		
					'2.22							
						42 —						
						43 —						
						44						

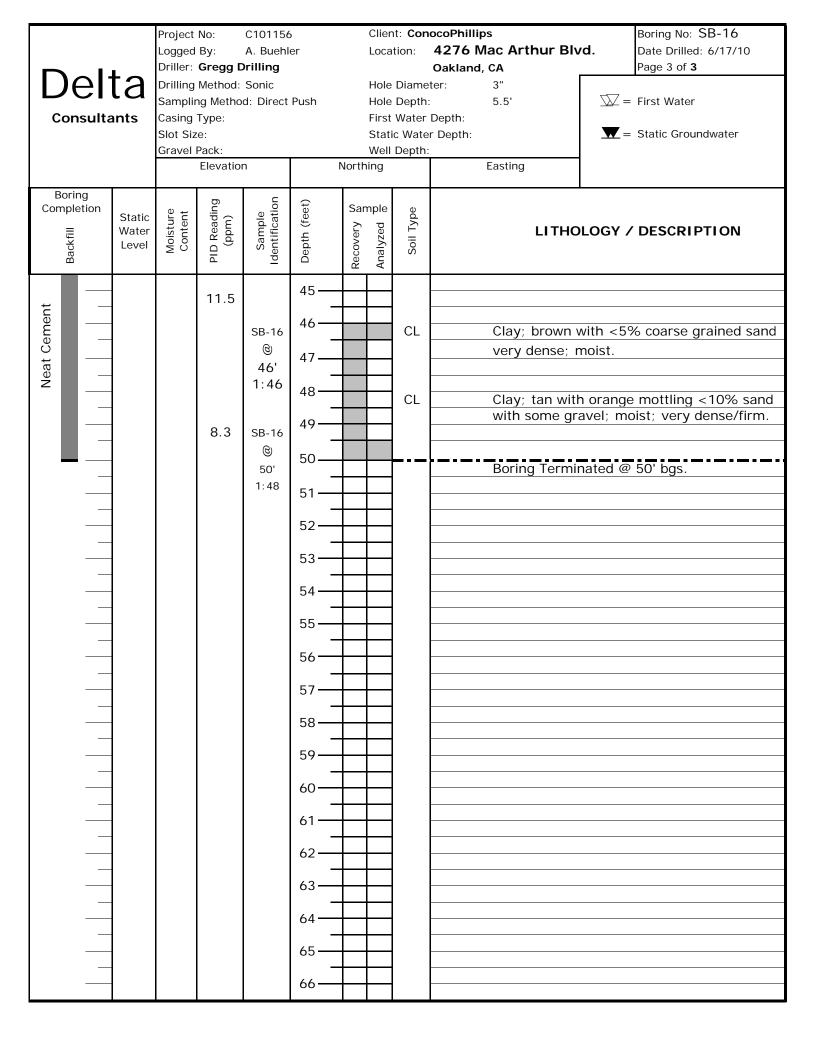


Bo Com	onsulta		Drilling	By: Gregg C Method: ng Metho Type: e:	Sonic d:	n	Loca Hole Hole Firs Stat	ation: 4 Oakla Diame Depth Water	: Depth: er Depth: : Easting	Boring No: SB-15 Date Drilled: 06/17/10 Page 1 of 2 First Water Static Groundwater DLOGY / DESCRIPTION
Neat Cement		∇		14.8 24.4	SB-15 @ 5 2:01	1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 — 1 —		CH CL GC	Same as above Sandy lean cla moisture. Sandy gravel v moist-saturate	with fine grained sand; at ogs, color had orange mottling, stant lithology to 11.5 feet. e to 16 feet bgs. y; fine grained; increased with clay from 17.5 to 18 feet; d.

			Project	No:	C101156			Clier	nt: Con	ocoPhillips		Boring No: SB-15
			Logged		C.Morgar	1		Loca	tion:	4276 MacArthur Bl	lvd.	Date Drilled: 06/17/10
L	1.	L _		Gregg D	rilling					Oakland, CA		Page 2 of 2
11)	el.	เล	Drilling	Method:				Hole	Diame	ter:		
	O .	· ·	Samplir	ng Metho	d:			Hole	Depth:		∑ :	= First Water
Co	nsulta	ants	Casing							Depth:		
			Slot Siz							r Depth:	▼ :	= Static Groundwater
			Gravel I			1			Depth:			
				Elevatio	n		Nort	hing		Easting		
Во	ring					_						
	oletion	Static	jt e	PID Reading (ppm)	Sample Identification	Depth (feet)	Sai	mple) e			
	=	Water	stui	eac pm)	npl fica	(fe	ery.	ed	Σ̈́	LITHO	LOGY /	/ DESCRIPTION
	Backfill	Level	Moisture Content	9 9	Sar	epth	Recovery	Analyzed	Soil Type			
	Be			P	<u>p</u>	ă	Rec	An				
						23 —						
l ±						23 —						
Neat Cement						24 —						
en	_											
5 +						25 —						
lea	_					_						
-						26 —						
	_			10.9	SB-15				GC	Same as above	2	
				10.7	@ 26.5	27 —				Surie as above	· .	
					2:18							
						28 —			CL	Sandy lean cla	y with w	vith gravel, fine
						29 —						vel, more saturated
						29				(saturation due	e to sluf	f during
						30 —				drilling)		
	_			5.2	SB-15	-						
	_				@ 30	31 —		_				
	_				2:18	_						
						32 —						
	_					<u> </u>						
						33 —						
						_						
						34 —						
						35 —						
	_			10.7	SB-15	_			CL	Same as above	e, moist	
					@ 35	36 —		_				
	_				2:24	-		\vdash				
						37 —						
	_											
						38 —						
						_						
						39—						
						40 —						
				2.6	SB-15				CL	Same as above	9.	
					@ 40	41 —		$oxed{oxed}$	ļ	L <u>-</u>		
					2:40	l · · —	<u> </u>	<u> </u>	ļ	Boring temin	ated at	41 ft due to
						42	<u> </u>	<u> </u>		refusal.		
	_					-	 					
						43 —	\vdash					
							H					
						44 —						
			J		1		1	Ī	<u> </u>	•		

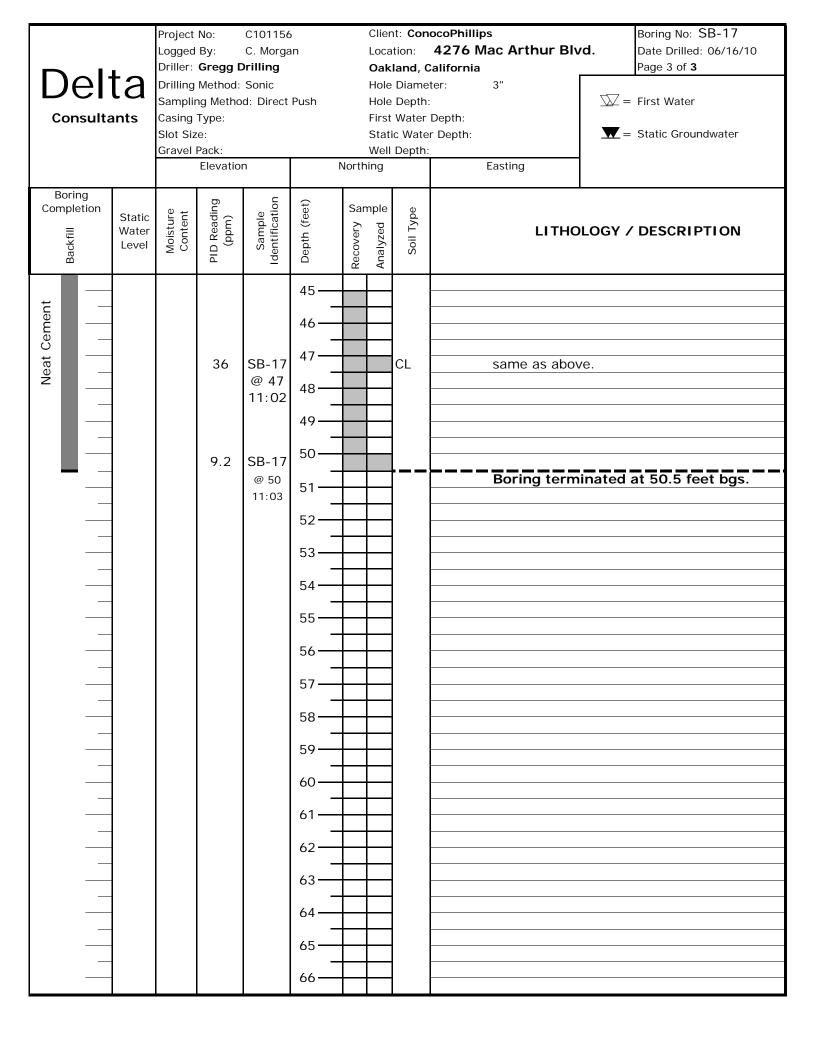
Delta Consultants Boring Completion Static Water Level	Project No: Logged By: Driller: Gregg Drilling Method Sampling Meth Casing Type: Slot Size: Gravel Pack: Elevat and (mdd) (mdd)	: Sonic od: Direct F ion	Push Ho Fi St W Northin	ocation: ole Diame ole Depth rst Water atic Wate ell Depth	t: 5.5' Depth: er Depth: : Easting	Boring No: SB-16 Date Drilled: 6/17/10 Page 1 of First Water Static Groundwater DLOGY / DESCRIPTION
Neat Cement	moist 90.1 moist 13.7	SB-16 8' 12:46 SB-16 0' 10:49 SB-16 15' 12:55	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 2	CL CL GC	Lean clay; ligh sand, very den Same as above mottling to 16	t brown, <5% fine grained nse/firm, moist, strong odor.

Boi Comp	nsulta	Drilling	By: Gregg D Method: ng Method Type:	Sonic d: Direct F	er Push	North	Hole Hole First Stati Well	tion: Diame Depth: Water	5.5' Depth: Depth: Easting	<u></u> = ▼ =	Boring No: SB-16 Date Drilled: 6/17/10 Page 2 of 3 First Water Static Groundwater
Neat Cement			9.3	SB-16 @ 25' 1:10 SB-16 @ 30' 1:10 SB-16 @ 40' 1:37	23 — 24 — 25 — 26 — 27 — 28 — 30 — 31 — 32 — 33 — 34 — 35 — 36 — 37 — 36 — 37 — 40 — 41 — 42 — 43 — 43 — 43 — 43 — 43 — 44 — 44			CL CL	Sandy lean clay At 25' bgs, clay is more firm, d	y; brown y contain amp.	n, 15% sand, damp n, wet. ns more gravels, and ravel; brown and <5% gravel and
					43 —						



			Project	No:	C101156			Clie		ocoPhillips		Boring No: SB-17
			Logged		C. Morgar	ו				4276 Mac Arthur B	Ilvd.	Date Drilled: 06/16/10
	elt	\mathbf{a}		Gregg D Method:	_				k land, C e Diame	ter: 3"		Page 1 of 3
	CIL	a	_		d: Direct P	ush			e Depth:		∇ :	= First Water
Cor	nsultan		Casing	_	a. 2oo	u o			Water			The Trace
			Slot Siz							r Depth:	▼ :	= Static Groundwater
			Gravel I	Pack: Elevatio	n		Nortl		Depth:	Easting		
				Licvatio			NOIT	mig		Lasting		
Bori Compl			a).	Вu	on	et)	Sar	nple	4)			
-	S	tatic /ater	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Şı	eq	Soil Type	LITHO	I OGY	/ DESCRIPTION
Backfill	L	.evel	Mois	ID R (PF	Sar entii	epth	Recovery	Analyzed	Soil	211110	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DEGOKII ITOIL
	מ			Р	PΙ	Ω	Re	An				
-						_						
	_				ō	1 —						
-	1 1				ere	- -						
					Hand Augered	2—						
					/ pc	3 —	+					
					Har	<u> </u>						
						4 —						
-	_			250.0	SB-17	5—			CL	Candy loan ala	v. arov.	with visible groop
-				259.0	ов-17 @ 5	_			CL			with visible green ammount of wood
-					10:25	6—						ed sand, pea to
-						7 —				thumb sized gr	ravel fro	m 6-8 feet bgs.
int						_						
èmé						8—			CL	Same as above	e, howe	ver sand becomes
Ö						9				fine grained. C	lay has	more tan and orange
Neat Cement						′ -					•	green contamination.
_				239.0	SB-17	10 —				Strong petrole	um nyai	ocarbon odor.
				207.0	@ 10	- 11 —						
					10:28	'						
	_					12—						
						_	-					
						13—			CL	Sandy lean cla	y with g	ravel, pea to thumb
						14 —						d gray, moist, strong
	-					_				hydrocarbon o	uor.	
				19.4	SB-17	15 —			CL	Lean Clay with	sand; t	an, orange and some
					@ 15	16—						g; more firm, and
					10:30	_				more coarse gr	rained s	and; moist.
						17 —						
						18 -						
						10			CL			ravel, green, and
	-			79.4	SB-17	19—				white trace roc thumb sized gr		nded to subrounded,
				17.4	@ 20	-				triumo sizeu gi	avei, Ve	ay moist.
		_			10:11	20—						
		∇				21—					- l. ·	
						_			CL	Same as above becomes orange		ver sandy clay n; still very moist.
	\blacksquare					22 —				Docomes or any	je io iai	i, still voly moist.

			Project		C101156					ocoPhillips		Boring No: SB-17
			Logged		C. Morga	n			tion:	4276 Mac Arthur B	lvd.	Date Drilled: 06/16/10
\square	el [·]	t a		Gregg D Method:					Diame	talifornia ter: 3"		Page 2 of 3
ען	CI	la			d: Direct F	Push			Depth:		₩ =	First Water
Co	nsulta	ants	Casing						Water			
			Slot Siz							r Depth:	▼ =	Static Groundwater
			Gravel			Г	NI		Depth:			
				Elevatio)T1		Nort	ning		Easting		
	ring			g	nc	t)	Sai	mple				
	letion	Static	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)			Soil Type			DECODURTION
-	Баскт	Water Level	Aois: Cont	Re (pp	Sam	pth	Recovery	Analyzed	_ io	LITHO	LUGY /	DESCRIPTION
ď	Ба		2 0	PII	Ide	De	Rec	Ana	0)			
						23 —			CL	Same as above	e, with in	creased firmness.
in t	_					_						
Neat Cement						24 —						
Š						25 —						
lea	_			NA	SB-17 @ 25	_						
	_				10:17	26 —						
						27 —						
	_					-						
						28—						
	_					29 —						
	_					_		-				
				12.5	SB-17	30 —			CL	Same as above) .	
	_				@ 30 10:20	31 —						
					10.20	32 —						
	_					_						
						33 —						
						34 —						
	_					_						
				3.8	SB-17	35 —			CL	Same as above	e.	
					@ 35	36 —						
					10:24	-						
						37 —						
	_					38 —						
	_					_						
						39—						
	_			10.5	SB-17	40 —			CL	Same as above	7	
				10.5	@ 40							
					10:44	41 —						
						42 —						
						43—						
						-						
						44 —						
					1	ı			1			



i w	Logg Drille Drillin Samp ts Casir	Elevation	Sonic od:	n	Loca Hole Hole First Stat	tion: Diame Depth Water	: Depth: er Depth: : Easting	Boring No: SB-18 Date Drilled: 06/14/10 Page 1 of 1
Neat Cement		12.5 25.1	SB-18 @ 7.5 3:05 SB-18 @ 10 3:13	1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 11 — 12 — 13 — 14 — 15 — 16 — 17 — 18 — 20 — 21 — 22 — 22 — 22 — 22 — 22 — 22		SM CH	Fine grained si very strong od Fat clay with sic contamination. Clay with silt a increased mois abundant in boorange coloring	Ity sand; black, saturated, or and, tan and gray, visible or and sand; tan to gray; sture; fine grained sand more of sample with tan and

Boring Completion Static Wate Leve	Logged By: C. I Driller: Gregg Drilli Drilling Method: Sor Sampling Method: Casing Type: Slot Size: Gravel Pack: Elevation	nic No No eet)	Client: Cor Location: Hole Diame Hole Depth First Water Static Water Well Depth orthing Somple Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample Sample	e: 20' Depth: er Depth: : Easting	Boring No: SB-19 Date Drilled: 06/15/10 Page 1 of 1 First Water Static Groundwater PLOGY / DESCRIPTION
Neat Cement	33.7 Si @ 2 26.9 Si @ 2	B-19 8	CL CL CH	Same as above Sandy lean cla green contamin moist. Fat clay with g increased mois	

		Project		C101156			Clien		СОР	Boring/Well No: SVW-1
		Logged	Ву:	Alan Bueh					Oakland	Page 1 of 2
Delt		Driller:		Gregg Dril				Drilled		
IDUI	a			Hand Auge	er			Diame		
			ng Method					Depth:		
Consultar	nts	Casing		1/4" Tubin	ıg			Diame		
		Slot Siz		" • • •				Depth:		
		Gravel	Pack:	#30					Depth:	
		Elevation	n:		Northing		statio		r Depth: Easting:	-
\\\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Licvatio		_		•			Lasting.	
Well Completion	Water Level	يـ ه	PID Reading (ppm)	Sample Identification	Depth (feet)	Sam	ple	e		
= 5	Fe	Moisture Content	ead m)	pple icai	(fe	>	_	Soil Type	LITH	IOLOGY / DESCRIPTION
Backfill	iter	lois Son	PR (pp	San	pth	ove	SL S	io	Liin	OLOGI / DESCRIPTION
Backfill	Wa	20	PIC	lde,	De	Recovery	Interval	S		
						<u> </u>				
See					-		\dashv			
See Construction					1 —	\vdash	\dashv			
Detail					-	\vdash	\dashv			
Detail					2 —	\vdash	\dashv	CL	Brown lean clay wi	ith sand and gravel, moist
					-	\vdash	\dashv		-	
					3 —	\vdash	\dashv			
					-	\vdash	\dashv			
					4	\vdash	\dashv			
					-	\vdash	\dashv	CH	Green/gray fat clay	
					5 —				Total Depth :	_ <u>5'</u>
					-				Total Deptil :	= 5
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		Project		C101156	1		Clier		COP	Boring/Well No: SVW-2 Page 1 of 2
		Logged Driller:	-	Alan Bueh			Loca	tion: Drilled	Oakland I: 8/9/2010	Page 1 of 2
Delt	7			Gregg Dril Hand Auge				Diame		
	a		ng Method:		er .			Depth:		
Consultar		Casing		ı: 1/4" Tubir	o G			Diame		
Consultar	115	Slot Siz		1/4 TUDII	ig			Depth:		
		Gravel		#30		\blacksquare			Depth:	
		Oraver	r dok.	<i>"</i> 30		$\overline{\nabla}$			r Depth:	
		Elevation	on:		Northing		Otati	o wate	Easting:	
Well Completion	_		D	_						
	Water Level	re nt	PID Reading (ppm)	Sample Identification	Depth (feet)	Sar	mple	ed.		
III gc	r L	Moisture Content) Readi (ppm)	m ific	h T	Recovery	Interval	Soil Type	LITH	IOLOGY / DESCRIPTION
Backfill	/ate	S S	9 9	Sa ent	eptl	200	ter	Soil		
C. C.	≥		Б	<u> </u>	ă	Rec	<u>L</u>	• ,		
See										
Construction					'					
Detail								CI	Brown/green lean	clay with sand and gravel, 20%
					2 —			CL	sand, some gravel	
					3 —					
) —					
					4					
					-			СН	Green/gray clay	
					5			011		
									Total Depth	= 5'
					6					
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					22 —					
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		Project		C101156	la			Clien		COP	Boring/Well No: SVW-3 Page 1 of 2
		Logged Driller:	ву:	Alan Buehl Gregg Dril						Oakland : 8/9/2010	Page 1 of 2
IDalt	. ၁		Method:				Date Drilled: Hole Diamet				
Delt	a	Drilling Method: Hand Auge Sampling Method:				er нове Diai Hole Dep					
Consultants			-					Diamet			
		Casing Type: 1/4" Tubing Slot Size:							Depth:		
		Gravel		#30						Depth:	
										Depth:	
	Elevation:			Northing:					Easting:		
Well Completion	<u></u>		ō	<u> </u>	Ŧ		Sami	nlo			
	Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)		Sample		Soil Type		
fill	er L	oisti onte	Rea	amp tific	L L		/er)	val		LITH	OLOGY / DESCRIPTION
Backfill	Vat	ഉ ഗ	ت ت	Signatur	ept		Recovery	Interval	Sol		
<u>а</u> О	>		Δ.				R	-			
See					1	\Box				_	
Construction					l '	\perp					clay with sand and gravel, strong
Detail					2	\rightarrow			J_	odor	
I —						4					
I —					3	\rightarrow					
I —]	4		_			
					4	\dashv		\dashv	СН	Gray/green clay, stror	ng odor
						-				, -	
					5	_		_		Total Depth =	E'
						+				тотаг Бертіг з	= 5
					6	\rightarrow		_			
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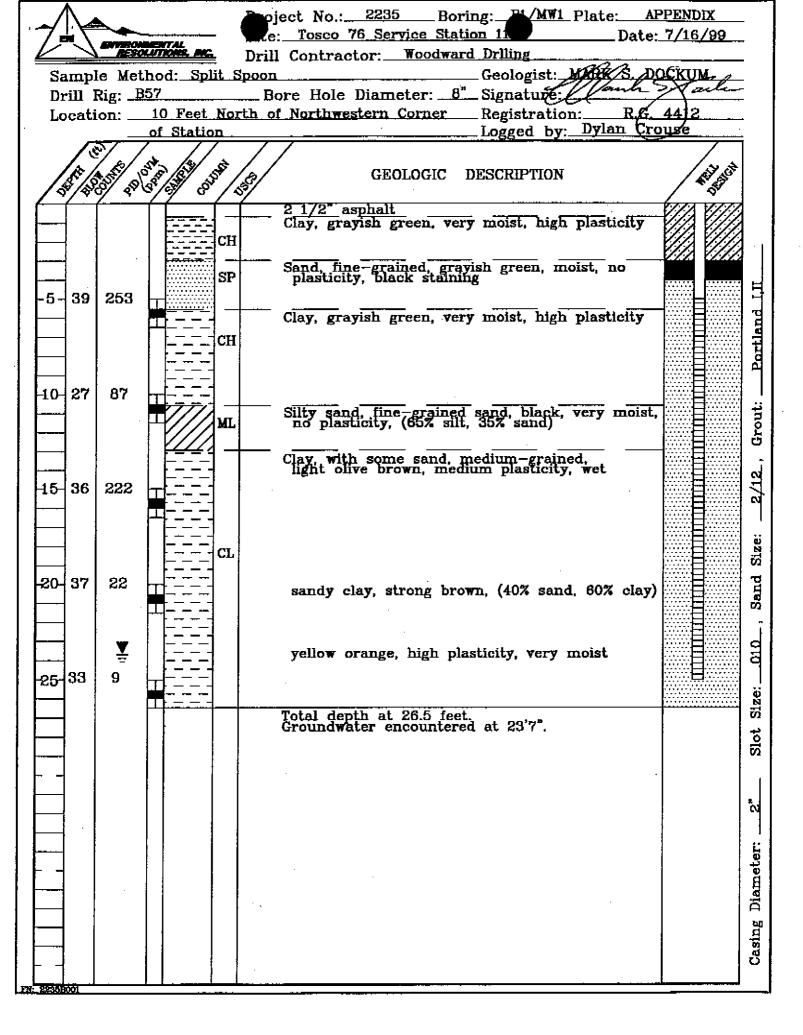
		Project		C101156		Clie		COP	Boring/Well No: SVW-4		
_		Logged Driller:		Alan Bueh			ation:	Oakland	Page 1 of 2		
Delt	\mathbf{C}			Gregg Dril							
I DEIL	.a			Hand Auge	er		e Diame				
			ng Method -				e Depth				
Consultants		Casing		1/4" Tubin	ng Well Diam Well Dept						
		Slot Siz Gravel		#30			ii Deptn it Water				
		Gravei	Pack:	#30				r Depth:			
		Elevation:			Northing		iic wate	Easting:	+		
Well Completion				_					•		
Well completion	Water Level	e +	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample	9				
≡ ნ	Ĺ	Moisture Content	eac ɔm`	npl	(fe	Recovery Interval	Σ	LITHOLOGY / DESCRIPTION			
Backfill	ate	Moi		Sar	pth	ove erv	Soil Type				
Ba	Š		F	Ide	De	Recovery	,				
See					-		1				
Construction					1 —		1	Dark brown/green	ish lean clay with sand, strong		
Detail					-		CL	odor	san sana, sana		
					2 —		1				
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					3 —		1				
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-					4		CH	Green/brown clay, st	ong odor		
					5 —			Total Depth	= 5'		
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		Project		C101156			Clier		COP	Boring/Well No: SVW-5	
_		Logged	-	Alan Bueh			Loca		Oakland	Page 1 of 2	
Delta		Driller: Gregg Drilling Drilling Method: Hand Auger						Drilled			
	.a			Hand Auge							
			Sampling Method: Casing Type: 1/4" Tubing					Depth:			
Consultants		Slot Siz		1/4" Tubir				Diame ¹			
		Gravel		#30		\blacksquare		Depth: Water			
		Gravei	rack.	<i>π</i> 30							
		Elevation:							Easting:	1	
Well Completion	_		0	۲					-	•	
Tron completion	eve	re rt	dinç	Sample Identification	Depth (feet)		nple	be			
<u>≡</u> 6	<u>ا</u> ت	Water Level Moisture Content	PID Reading (ppm)	m Elica	J) (Recovery	Interval	Τ	LITH	IOLOGY / DESCRIPTION	
Backfill	ate	Mo.		Sa	eptl	Š	ter	Soil Type			
Č. B.	>			ğ	ă	Rec	Ľ	• ,			
See											
Construction					1 —			CL	Green/gray/black I	ean clay with sand, some gravel,	
Detail					2 —				wood debris, strong odor		
					3 —						
					_						
					4			СН	Greenish gray clay, s	trong odor	
					· _	<u> </u>			gray may, c		
					5 —				F	El	
					_				Total Depth	= 5	
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		Project		C101156			Clien		СОР	Boring/Well No: SVW-6
_		Logged	ву:	Alan Bueh					Oakland	Page 1 of 2
Delt	\mathbf{C}	Driller:	NA - 411	Gregg Dril				Date Drilled: 8/9/2010		
ーレせに	.a			Hand Auge						
			ng Method -	Hole Depth:						
Consultants		Casing		1/4" Tubin				Diame ¹		
		Slot Siz Gravel		#30				Depth:	5' Depth:	
		Graver	Pack:	#30						
		Elevation:							Easting:	-
Well Completion	_			_	1				3	
Well completion	Water Level	re t	ding	e atio	Depth (feet)	Sam	ple	be		
≡ 6	Ĺ	Moisture Content	PID Reading (ppm)	mpl) (Le	Σú	a	Σ	LITH	OLOGY / DESCRIPTION
Backfill	ate	Moi Cor		Sar	pt l	OV6	Interval	Soil Type		
Ba Ca	Š		F	Sample Identification	De	Recovery	Int	0)		
See					-					
Construction					1 —					
Detail								۵.	Green/grav lean cl	ay with sand, some gravel, some
					2 —			CL	odor, asphault deb	
						T			2 30. , apridant dob	··· · -
					3 —					
I —] _ =	t				
					4	t		<u> </u>		
					<u> </u>			СН	Green/brown clay, str	rong odor
					5 —				Total Depth :	= 5'
	-				_					
					6					
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					8					
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APPENDIX F

Boring Logs for Abandoned Wells



- Λ.	Project No.: 2235 Boring: P2/MW2 Plate: AP	i i
ENVIRONMENTAL RESOLUTIONS, INC.	te: Tosco 76 Service Station 1 Date:	<u>7/16/99 </u>
	Drill Contractor: Woodward Drilling	
Sample Method: Split	Spoon Geologist: MARK S. DC	Si Marke _
	Bore Hole Diameter: 8" Signature	4412
	Ast of Southernmost Driveway Registration: R.G.\ Arthur Boulevard Logged by: Dylan Cro	
18/ / //	//	
	GEOLOGIC DESCRIPTION	132.63
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	GEOLOGIC DESCRIPTION	A STATE OF
	4" asphalt.	
	Clay, dark greenish gray, mottled redish orange, some coarse-grained sand, slightly damp, high plasticity, (35% sand, 65% clay)	
	high plasticity, (35% sand, 65% clay)	
5- 11 20	·	1
 ** ** 	CH _[
		a a
		Portland
	15% fine gravels up to 0.5" 20% gand	
10 18 0	15% fine gravels up to 0.5", 20% sand, medium—grained, damp	
		Grout:
		3 H
	Silty clay, orange brown, mottled green gray, (35% silt, 65% clay), moist, medium plasticity	
15 21 130	(35% sit, 65% diay), moist, medium plasticity	71
		N N
	gravelly clay light vellowish brown (40% fine	langer al langer and langer
20 29 20	gravelly clay, light yellowish brown, (40% fine gravel, 60%, clay), medium plasticity, very moist, black staining	3
		2
	South along transport at att well-wish brown wat	
	Sandy clay, trace of silt, yellowish brown, wet, medium plasticity, (35% sand, 15% silt, 50% clay)	
25 45 18	City)	
		Size:
	Total depth at 26.5 feet. Groundwater encountered at 23' 6".	
	Groundwater encountered at 23 6.	Slot
		ζ <u>α</u>
		l N
	·	;
		Dlameter:
	'	l fi
		<u>법</u>
		Casing
 		
FN: 22358002		

. 🏎 🖊				4	Project No.: 2235 Boring: P3/MW3 Plate: A		-
	Bonno		YYAL XONE, MC.	- 4		<u>7/16/99</u>	•
				-	Drill Contractor: Woodward Drilling	CONTINE /	•
					Geologist: MARK S./D	Sale	
					Bore Hole Diameter: <u>8"</u> Signature	4412	•
Pocar	ion: ap m	ost.	Disper	18er	Island Parallel to High Street Logged by: Dylan Cre		-
	$\overline{\sim}$.	_		_	//		Ì
	GOE RO	در ور د		SE .	GEOLOGIC DESCRIPTION	Neit gat	
	SOUTH AND	3 ⁹ /		"/s	GEOLOGIC DESCRIPTION	/ * 35°	
	<u> </u>	Ť	Í	[_	4 1/2 asphalt		
				1	Clay, dark yellowish brown, mottled, trace of medium-grained sand, slightly damp, high plasticity, (15% sand, 85% clay)		
					plasticity, (lb% sand, 85% clay)		
				•			
5-18	235				brown, mottled gray, dry		7
					" "		P
<u> </u>				СН			Portland
							Poř
1.5							
10 33	265				staining, trace of coarse gravel and rootlets (15% gravel, 85% clay), slightly damp		بن
	<u>Ā</u> .	F		1	(15% graves, obs cray), sugardy dump		Grout:
	-						G
				-	Sandy clay, greenish gray, mottled, orange,	- ::::::	, a
15 25	81				Sandy clay, greenish gray, mottled, orange, some medium-grained sand, slight plasticity, caliche present, (35% sand, 65% clay)		712
		-		CL	•		Ø
				╽ _—			1.2
\vdash					Clay, strong brown, slight mottling, trace of medium—grained sand, 20% sand, high plasticity, black staining, 80% clay		Size:
00 00	_			СН	plasticity, black staining, 80% clay		
20-36	9						and
		F					-
	<u></u>		63.0	-TAT	Gravel, yellowish brown, wet		۵
-	=		69.3	GW			뎍
25 25	0	\vdash	202	сн	Clay, trace of medium-grained sand, yellowish		
	İ		93.95	-	Clay, trace of medium—grained sand, yellowish brown, very moist, high plasticity, (15% sand) Gravel, orange, slight plasticity, wet		Size
			67.95°	G₩			
				$\mid \dashv$	Clay, yellowish brown, moist, high plasticity		Slot
30 00	آ ۾ ا			СН			
30-22	0					·	
		廾			Total depth at 31.5 feet.		ī.
					Groundwater encountered at 23.3 feet. Static groundwater at 12 feet.		
							er:
}							ıet
H							Diameter:
\vdash							
							Casing
							Cas
The state of the s			_				
FN: 2235B003	·						

e: Tosco 76 Service Station 11 Date: 7/16	<u>/99 </u>
/ / \ \ \ PERPERBERIAL	
Drill Contractor: Woodward Drilling	
Sample Method: Split Spoon Geologist: MARK S/ DOCKI	<u>M./</u>
Drill Rig: B57 Bore Hole Diameter: 8" Signature fund	
Location: 18 Feet North of Southernmost Dispenser Registration: R.G. (441)	<u>.</u>
Island Parallel High Street Logged by: Dylan Crouse	
	RILL COT
GEOLOGIC DESCRIPTION	W. Bar
	- 1.0.0.0.0
1 1 4 1/5 ds <u>phate</u>	
Clay, greenish gray, mottled, orange slightly damp, high plasticity	
-5- 17 309 	
	Portland
	77.77.
10-22 253 T	
trace of medium-grained sand, slightly moist	Grout
	5
15-19 4	12
15 15 4	2
	<u> </u>
	Size
20-28 4	and
brownish yellow, black staining, 20% gravel, 20% medium—grained sand, moist	ie S
	d
brown, mottled, olive yellow, moist, black staining	8
25 36 0	
	S. S. S. S. S. S. S. S. S. S. S. S. S. S
Total depth at 26.5 feet. Groundwater encountered at 23.6 feet.	
Groundwater encountered at 23.5 feet.	Slot
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	Diameter
	Dia
	ľ
	Casing
	చో
PN: \$23519004	

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

Molly Meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Sample Information		
Chain of Custody and Cooler Rece	ipt form	5
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Sample Results		
1008393-01 - SB-12-6		
•	(EPA Method 8260)	
——————————————————————————————————————	Total Petroleum Hydrocarbons	24
1008393-02 - SB-12-10	(EDAM # 10000)	
	(EPA Method 8260)	
Purgeable Aromatics and 1008393-03 - SB-12-15	Total Petroleum Hydrocarbons	26
	(EPA Method 8260)	27
	Total Petroleum Hydrocarbons	
1008393-04 - SB-12-20	Total i Carolcum Hydrocarbons	20
	(EPA Method 8260)	29
	Total Petroleum Hydrocarbons	
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1008393-06 - SB-12-30		
	(EPA Method 8260)	
	Total Petroleum Hydrocarbons	34
1008393-07 - SB-12-35	(== 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	(EPA Method 8260)	
	Total Petroleum Hydrocarbons	36
1008393-08 - SB-12-41	(EPA Method 8260)	27
	Total Petroleum Hydrocarbons	
1008393-09 - SB-12-45	Total i etroleum riyurocarbons	50
	(EPA Method 8260)	39
	Total Petroleum Hydrocarbons	
1008393-10 - SB-12-50	•	
Volatile Organic Analysis	(EPA Method 8260)	41
Purgeable Aromatics and	Total Petroleum Hydrocarbons	42
1008393-11 - SB-16-8		
	(EPA Method 8260)	
-	Total Petroleum Hydrocarbons	44
1008393-12 - SB-16-10	(EDAM # 10000)	
	(EPA Method 8260)	
1008393-13 - SB-16-15	Total Petroleum Hydrocarbons	40
	(EPA Method 8260)	17
-	Total Petroleum Hydrocarbons	
1008393-14 - SB-16-20	Total i Cirolcum Hydrocarbons	+0
	(EPA Method 8260)	49
	Total Petroleum Hydrocarbons	
1008393-15 - SB-16-25	•	
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	Total Petroleum Hydrocarbons	
1008393-16 - SB-16-30		
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ConocoPhillips Chain Of Custody Record BC Laboratories, Inc. ConocoPhillips Site Manager: Shelby Lathrop ConocoPhillips SAP Project Number 4100 Atlas Court INVOICE REMITTANCE ADDRESS: CONOCOPHILLIPS DATE: Bakersfield, CA 93308 Attn: Dee Hutchinson ConocePhillips Regulation / Line Number 3611 South Harbor, Suite 200 PAGE: (661) 327-4911 (661) 327-1918 fax Santa Ana, CA. 92704 SAMPLING COMPANY: CONDECEMBLE PRINTER NUMBER GLOBAL ID NO. Delta Consultants SS# 1156 ACCISES: SITE ADDRESS paved and Cityl: 11050 White Rock Road #110, Rancho Cordova, CA 95670 4276 MacArthur Blvd, Oakland, CA Terry Grayson PROJECT CONTACT (Handcapy or PCF Report In): EDF DELIVERABLE TO (RP or Doolgree): James Barnard LAB USE ONLY TECEPHONE: 916-503-1279 Terry L Grayson@contra James Barnard (Delta) (916) 503-1279 (916) 638-8385 jbarnard@deltsenv.com ctor conocophilips com SAMPLER MANERS (Print): OVSULTANT PROJECT NUMBER Alan Buehler/Caitlin Morgan REQUESTED ANALYSES C101158 TURNAROUND TIME (CALENDAR DAYS): ☐ 14 DWYS ☐ 7 DWYS ☐ 72 HOURS ☐ 46 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS **8 Day Turn FIEL SPECIAL INSTRUCTIONS OR NOTES:

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Chain of Custody and Cooler Receipt Form for 1008393 Environmental Testing Laboratory Since 1949

Page 2 of 8

ConocoPhillips Chain Of Custody Record Shelby Lathrop ConocoPhillips SAP Project Number

ConocoPhillips Site Manager: INVOICE REMITTANCE ADDRESS:

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James Barnard (Delta)

CONOCOPHILLIPS Attn: Dee Hutchinson 3611 South Harbor, Suite 200

Santa Ana, CA. 92704

ConocoPhillips Requisition / Line Number

DATE:

CONDCOPHILIPS SITE MANAGER Terry Grayson LAG USE ONLY Terry L. Grayapn@contra

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(148) SB-16-50

BC Laboratories, Inc.

4100 Atlas Court

Bakersfield, CA 93308

(661) 327-4911 (661) 327-1918 fax

Alan Buehler/Caitlin Morgan

PROJECT CONTACT (Hardsopy or PEP Report to)

SPECIAL INSTRUCTIONS OR NOTES:

11050 White Rock Road #110, Rancho Cordova, CA 95670

(916) 638-8385

Please CC Alan Buehler (abuehler@deltaenv.com) and Caitlin Morgan (cmorgan@deltaenv.com) on reports

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James Barnard

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Chain of Custody and Cooler Receipt Form for 1008393 Environmental Testing Laboratory Since 1949 Laboratories, Inc.

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ConocoPhillips Chain Of Custody Record

REQUESTED ANALYSES

4100 Atlas Court Bakersfield, CA 93308

BC Laboratories, Inc.

ConocoPhillips Site Manager: INVOICE REMITTANCE ADDRESS: Shelby Lathrop

CONOCOPHILLIPS Attn: Dee Hutchinson 3611 South Harbor, Suite 200 Santa Ana, CA, 92704

ConocoPhilips SAP Project Number CongeoPhillips Requisition / Line Number

DATE:

FIELD NOTES:

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or Laboratory Notes

(661) 327-4911 (661) 327-191	18 fax		Santa Ana, CA. 92704				
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Pelta Consultants			SS# 1156				
ADDRESS			SITE ADDRESS (Street and City):	CONCCOPHILLIPS SITE MANAGER			
1050 White Rock Road #110, Rancho Cordova, CA 95670			4276 MacArthur Blvd, Oakland, CA	Terry Grayson			
PROJECT CONTACT (Hardcopy or POF Report to):	t					***************************************	
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TELEPHONE: FAX:		E-WWL:	James Barrand (Dalle)			12-05	242
916) 503-1279 (916) 638-4	8385	barnard@deltaenv.com	James Barnard (Delta)		ctor.compcoghilips.com	000	210

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SPECIAL INSTRUCTIONS OR NOTES:

Please CC Alan Buehler (abuehler@deltaenv.com) and

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Chain of Custody and Cooler Receipt Form for 1008393 invironmental Testing Laboratory Since 1949

Page 4 of 8

ConocoPhillips Chain Of Custody Record

	ConocoPhillips Site N
4100 Atlas Court	INVOICE REMITTANCE
Bakersfield, CA 93308	1

BC Laboratories, Inc.

(661) 327-4911 (661) 327-1918 fax

Shelby Lathrop Manager: E ADDRESS:

8015M - TPHmo

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J.

CONOCOPHILLIPS Attn: Dee Hutchinson 3611 South Harbor, Suite 200

REQUESTED ANALYSES

Santa Ana, CA, 92704

ConocoPhillips Requisition / Line Number

ConocoPhillips SAP Project Number

DATE:

FIELD NOTES:

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Chain of Custody and Cooler Receipt Form for 1008393 Page 5 of 8

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Chain of Custody and Cooler Receipt Form for 1008393 Page 6 of 8

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RADIOLOGICAL BACTERIOLOGICAL ### wit VOA VIAL-504 OT EPA 508-08-98-98-0 OT EPA 515.18-150 OT EPA 515.18-150 OT EPA 525 OT EPA 525 OT EPA 525 OT EPA 547 100m EPA 547 100m EPA 531.1 OT EPA 548 OT EPA 590 OT EPA 632 OT EPA 632 OT EPA 8015M OT AMBER SOZ. JAR SOUL SLEEVE PLASTIC PLASTIC BAG FERROUS IRON	QT EPA 413.1, 413.2, 418.1			-	ļ	-				-	+
BACTERIOLOGICAL 46 mi VOA VIAL-504 OT EPA 508/808/808/80 OT EPA 515.1/8150 OT EPA 525 OT EPA 525 TRAVEL BLANK 100mi EPA 547 100mi EPA 541 OT EPA 531.1 OT EPA 548 OT EPA 549 OT EPA 632 OT EPA 632 OT EPA 632 OT AMBER \$ 0.0 JAR \$	PT ODOR		-	-	-		 			-	+
40 ml VOA VIAL- 504 OT EPA 508/808/808/0 OT EPA 515.1/8150 OT EPA 525 OT EPA 525 TRAVEL BLANK 100ml EPA 531.1 OT EPA 531.1 OT EPA 531.1 OT EPA 548 OT EPA 549 OT EPA 632 OT EPA 8015M OT AMBER 3 OZ. JAR 32 OZ. JAR SOIL SLEEVE PASSIC PCB VIAL PLASTIC BAG FERROUS IRON	RADIOLOGICAL			+	ļ				-		+-
OT EPA 508/508/508/508/508/508 OT EPA 515.1/3150 OT EPA 525 OT EPA 525 OT EPA 525 TRAVEL BLANK 100m1 EPA 531.1 OT EPA 531.1 OT EPA 548 OT EPA 549 OT EPA 632 OT EPA 8015M OT AMBER 8 OZ JAR 32 OZ JAR 501L SLEEVE PLASTIC FERROUS IRON		-	+								+
OT EPA 515. I/8150 OT EPA 525 OT EPA 525 OT EPA 525 TRAVEL BLANK 100m1 EPA 547 100m1 EPA 531.1 OT EPA 531.1 OT EPA 549 OT EPA 632 OT EPA 632 OT EPA 8015M OT AMBER 3 OZ JAR 32 OZ JAR 501. SLEEVE PASTIC FEROUS IRON		-							-		-
OT EPA 525 OT EPA 525 TRAVEL BLANK 100m3 EPA 547 100m3 EPA 531.1 OT EPA 548 OT EPA 549 OT EPA 632 OT EPA 632 OT EPA 8015M OT AMBER \$ 02 JAR \$ 20 Z. JAR \$ 501, SLEEVE \$ 1851.0 PCB VIAL FLASTIC BAG FERROUS IRON		ऻ—	-	+				-			
OT EPA 525 TRAVEL BLANK 100m3 EPA 547 100m3 EPA 531.1 OT EPA 548 OT EPA 549 OT EPA 632 OT EPA 6015M OT AMBER \$ 02. JAR \$ 02. JAR \$ 001. SLEEVE \$ \(\text{D} \) \(\text{S} \) \(\text{A} \) PCB VIAL PLASTIC BAG FERROUS IRON		ऻ—		-	-	-		_	-	-	
100m1 EPA 547 100m1 EPA 531.1 OT EPA 548 OT EPA 549 OT EPA 632 OT EPA 8015M OT AMBER 30 OZ JAR 32 OZ JAR 501L SLEEVE PASSIC A A A A A A A A A A A A A A A A A A A		<u> </u>	-	+	-		-	-	-	-	-
100m1 EPA 531.1 OT EPA 548 OT EPA 549 OT EPA 632 OT EPA 6015M OT AMBER \$ 0.2 JAR \$ 0.2 JAR \$ 0.1 SLEEVE \$ \(\alpha \) \(\alph	QT EPA 525 TRAVEL BLANK	 		-	-		-	 		 	-
OT EPA 549 OT EPA 549 OT EPA 602 OT EPA 6015M OT AMBER S OZ JAR 32 OZ JAR SOIL SLEEVE PASTIC A A A A A A A A A A A A A A A A A A A	100ml EPA 547	├	-		 		-	-		-	+
OT EPA 519 OT EPA 632 OT EPA 8015M OT AMBER \$ 0.2 JAR 32 OZ. JAR 32 OZ. JAR SOIL SLEEVE 10 105ti (A A A A A A A A A A A A A A A A A A	100ml EPA 531.1	├				-	-	-		+	+
OT EPA 632 OT EPA 8015M OT AMBER 8 OZ JAR 32 OZ JAR 30 OZ JAR SOIL SLEEVE PASTIC A A A A A A A A A A A A A A A A A A A	QT EPA 548	├	-	-	-	-	-		-	-	+
OT EPA 8015M OT AMBER 8 OZ. JAR 32 OZ. JAR SOIL SLEEVE PASTIC A A A A A A A A A A A A A A A A A A A	QT EPA 549		-	-	+	-	_		-	 	
OT AMBER 8 OZ. JAR 92 OZ. JAR 93 OZ. JAR SOIL SLEEVE PASTIC A A A A A A A A A A A A A A A A A A A	QT EPA 632	-	+	-	+	-	_		1	-	-
8 OZ. JAR 32 OZ. JAR SOIL SLEEVE PASTIC A A A A A A A A A A A A A A A A A A A		-	-	-	-	-			+	1	
32 OZ. JAR SOIL SLEEVE PASTIC A A A A A A A A A A A A A A A A A A A	QT AMBER	-	-	+	+	_		-	+	+	+
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FERROUS IRON		1	-	-				-	-	+	-
		1	-	-	+		-	-		+	
	FERROUS IRON	-		-	-		-	1	-	+	
ENCORE	ENCORE										



Chain of Custody and Cooler Receipt Form for 1008393 Page 7 of 8

bmission #: 10-0839.	51		1		-	SHIPPIN	G CONTA	INER		
SHIPPING INFORM	IATION ind Deliver	rv 🗆		le	e Chest,E		None			1
ederal Express □ UPS □ Ha CLab Field Service Ø Other □ :	Specify)				Box (Other	□ (Spec	ify)	
~										
efrigerant: Ice)Ø Blue Ice □	None 🗆	Oth	er 🗆 🤇	Comment	5:					
	ontainers		None &	Comme	nts:					N
Intact? Yes No	tact? Yes 🔾	No 🗆								
Isamples received? Yes XI No⊡ Al	I samples c	ontainers	intact? Y	es XI Not)	Description	on(s) match	COC? Y	res No	0
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YÓYES □ NO Ten	nperature: A	<u>, 4</u>		-c / c	41	c 📆	#82	Analyst	Init 2	
The second secon					SAMPLE	NUMBERS				
SAMPLE CONTAINERS	2, 1	2 2	2:	≥ 4		2 .	21	2 .	2:	3500
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T PE UNPRESERVED				-					-	+
T INORGANIC CHEMICAL METALS			-	-						1
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TCYANIDE	-			+		1				
T NITROGEN FORMS			-	+						
T TOTAL SULFIDE	-		-		-					
OL NITRATE / NITRITE										
T TOTAL ORGANIC CARBON									-	
T TOX PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS					-	-	-			-
PIA PHENOLICS Fori VOA VIAL TRAVEL BLANK					-	-	-		1	
40ml VOA VIAL			1 1	1 .	+	1	 ' '		3	1 0
QT EPA 413.1, 413.2, 418.1			-	-	+	-	-	-		
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40 ml VOA VIAL- 504	1	<u> </u>								
QT EPA 508/608/8080								ļ		
OT EPA 515.1/8150								-	_	
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160m1 EPA 547					-	-	-	-	-	
100ml EPA 531.1		<u> </u>						+	-	
QT EPA 548			-	-		_		-		
QT EPA 549		-	-	-	_	-		-		
QT EPA 632	-	-	-	-	-	_	1			
OT EPA 8015M	-	+		-	_	-				
OT AMBER	-	-	_							
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SOIL SLEEVE Plastic	A	A	A	A	A	A	A	A	17	1
	1							-		
PCB VIAL							_	-	-	
PLASTIC BAG FERROUS IRON								-		-
L Colores (100)	8		1							



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

	MATION and Delive			loc	e Chest,⊠		None		.\	
C Lab Field Service Other	(Specify)_				Box □		Other		/)	
Refrigerant: Ice	None C	Oth	-	Comments						
ustody Seals Ice Chest [Container stact? Yes C	No 🗆		Commen					wit	
lisamples received? Yes∭X No⊡ A	II samples (containers	intact? Y	es ⊠ No⊡	t-t-	Descriptio	n(s) match	COC? Yes	No D	4
COC Received Em	issivity: <u>(</u>			SIECTI CIC_	hermomete	- °C		Date/Time(Analyst Ini	C_{L}	2150
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SAMPLE CONTAINERS	31	3:	3.	134	3 .	3 ,	31	5 1		10
T GENERAL MINERAL/ GENERAL PHYSICAL										
T PE UNPRESERVED			-	-						
OT INORGANIC CHEMICAL METALS			-	-						
PT INORGANIC CHEMICAL METALS			-	-						
PT CYANIDE				-						
PT NITROGEN FORMS		-	-	-						
PT TOTAL SULFIDE			-	+						
261, NITRATE / NITRITE			-	-						
PT TOTAL ORGANIC CARBON			-							
PT TOX			+							
PT CHEMICAL OXYGEN DEMAND	-									
PIA PHENOLICS		1								
40ml VOA VIAL TRAVEL BLANK	· ·	4	1 1) 1		4 1		4 1		()
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QT EPA 525 TRAVEL BLANK						-	-	-		
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100ml EPA 531.1					-			-	-	-
OT EPA 548		-			-	-	-	-		
OT EPA 549		-				-	-	-	-	-
OT EPA 632		_				-	+	-	+	
OT EPA 8015M								+	-	_
OT AMBER		-	-		-		-	-	-	
5 OZ. JAR				_			-	-		
32 OZ. JAR		-		A	A	A	A	A	A	A
SOIL SLEEVE Plastic	A	A.	A	A	14-4	177	+11	+/	1-1-	1,
PCB VIAL				_	-	-	_	1		
PLASTIC BAG	-	-		-		-	1			
FERROUS IRON	_	-		-	-	_	+			
FERRIDOS INCO										THE RESERVE AND PERSONS ASSESSED.



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 06/23/2010 13:42 **COC Number:** Receive Date: 1156 06/15/2010 09:44 **Project Number:** Sampling Date: Sampling Location: Sample Depth: Sampling Point: SB-12-6 Solids Sample Matrix: Sampled By: **DECR** Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID: 1008393-02 **COC Number:** Receive Date: 06/23/2010 13:42 **Project Number:** Sampling Date: 06/15/2010 09:58 1156 Sampling Location: Sample Depth: SB-12-10 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID: 1008393-03 **COC Number:** 06/23/2010 13:42 Receive Date: 06/15/2010 10:25 **Project Number:** 1156 Sampling Date: Sampling Location: Sample Depth: SB-12-15 Sampling Point: 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: 1008393-04 **COC Number:** Receive Date: 06/23/2010 13:42 **Project Number:** 1156 Sampling Date: 06/15/2010 10:30 Sampling Location: Sample Depth: SB-12-20 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:



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 06/23/2010 13:42 **COC Number:** Receive Date: 1156 06/15/2010 10:45 **Project Number:** Sampling Date: Sampling Location: Sample Depth: Sampling Point: SB-12-26 Solids Sample Matrix: 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:** Sampling Date: 06/15/2010 10:47 1156 Sampling Location: Sample Depth: SB-12-30 Solids Sampling Point: Sample Matrix: DECR Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID: 1008393-07 **COC Number:** 06/23/2010 13:42 Receive Date: 06/15/2010 10:58 **Project Number:** 1156 Sampling Date: Sampling Location: Sample Depth: SB-12-35 Sampling Point: Sample Matrix: Solids **DECR** Sampled By: 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: SB-12-41 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-12 Matrix: SO Sample QC Type (SACode): CS Cooler ID:



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory **Client Sample Information** 1008393-25 06/23/2010 13:42 **COC Number:** Receive Date: 1156 Sampling Date: 06/16/2010 10:17 **Project Number:** Sampling Location: Sample Depth: Sampling Point: SB-17-25 Solids Sample Matrix: 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:** Sampling Date: 06/16/2010 10:20 1156

> Sampling Location: Sample Depth: SB-17-30 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-17

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

1008393-27 **COC Number:** 06/23/2010 13:42 Receive Date:

06/16/2010 10:24 **Project Number:** 1156 Sampling Date: Sampling Location: Sample Depth:

SB-17-35 Sampling Point: Sample Matrix: Solids **DECR**

Sampled By: 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:

SB-17-40 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-17

Matrix: SO

Sample QC Type (SACode): CS



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

]	Laboratory / Chent Sam	pie Cross Reference
Laboratory	Client Sample Informati)n	
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
	Sampling Form.	DECR	Delivery Work Order:
	campica by:		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:
	r ,		Global ID:
			Location ID (FieldPoint): SB-18
			Matrix: SO
			Sample QC Type (SACode): CS
			23



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Client Sample Information Laboratory

1008393-37 **COC Number:**

> **Project Number:** 1156 Sampling Location:

Sampling Point: SB-19-15 Sampled By: **DECR**

06/23/2010 13:42 Receive Date: Sampling Date: 06/15/2010 14:42

Sample Depth: Sample Matrix: Solids Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-19

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

1008393-38 **COC Number:**

> Project Number: 1156 Sampling Location:

SB-19-20 Sampling Point: **DECR** Sampled By:

Receive Date: 06/23/2010 13:42 Sampling Date: 06/15/2010 14:52

Sample Depth: Solids Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-19

Matrix: SO

Sample QC Type (SACode): CS

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10	008393-01	Client Sampl	e Name:	1156, SB-12-6, 6/15	5/2010 9:44:00Al	М		
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 (Surro	ogate)	98.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		104	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	113	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008393-01	Client Sampl	e Name:	1156, SB-12-6, 6/15	1156, SB-12-6, 6/15/2010 9:44:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	te)	93.5	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	112	%	70 - 130 (LCL - UCL)	Luft			1

			Run		QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	1008393-02	Client Sampl	e Name:	1156, SB-12-10, 6/1	15/2010 9:58:00	AM		
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 (Sui	rogate)	95.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Su	rrogate)	106	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8260	06/23/10	06/23/10 21:22	ADC	MS-V2	1	BTF1631			



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008393-02	Client Sampl	e Name:	1156, SB-12-10, 6/1	15/2010 9:58:00	AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	ite)	89.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	97.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10	008393-03	Client Sampl	e Name:	1156, SB-12-15, 6/1	15/2010 10:25:00	AM		
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 (Surro	ogate)	98.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		91.3	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	88.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008393-03	Client Sampl	e Name:	1156, SB-12-15, 6/1	1156, SB-12-15, 6/15/2010 10:25:00AM						
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #			
Gasoline Range Orga	nics (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 (Surroga	te)	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					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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: 1	008393-04	Client Sampl	e Name:	1156, SB-12-20, 6/1	5/2010 10:30:00	AM		
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 (Suri	rogate)	93.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	98.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008393-04	Client Sampl	e Name:	1156, SB-12-20, 6/15/2010 10:30:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	93.6	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	70.5	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

1008393-05	Client Sampl	e Name:	1156, SB-12-26, 6/1	5/2010 10:45:00	AM		
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.010	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
rogate)	113	%	70 - 121 (LCL - UCL)	EPA-8260			1
	99.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
rrogate)	95.1	%	74 - 121 (LCL - UCL)	EPA-8260			1
	rogate)	Result ND ND ND ND ND ND ND ND ND ND ND ND ND	Result Units ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg rogate) 113 % 99.7 %	Result Units PQL ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 1.0 ND mg/kg 0.0050 Togate) 113 % 70 - 121 (LCL - UCL) 99.7 % 81 - 117 (LCL - UCL)	Result Units PQL Method ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.010 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 1.0 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 PO-121 (LCL - UCL) EPA-8260 PO-121 (LCL - UCL) EPA-8260	Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 1.0 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.00	Result Units PQL Method Bias Bias Dquals ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg

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



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 Sampl	e Name:	1156, SB-12-26, 6/1				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	87.8	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	92.5	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10	08393-06	Client Sample	e Name:	1156, SB-12-30, 6/1	5/2010 10:47:00	AM		
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 (Surro	gate)	95.9	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	ogate)	96.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-06	Client Sampl	e Name:	1156, SB-12-30, 6/1	156, SB-12-30, 6/15/2010 10:47:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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 (Surroga	te)	82.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2		
a,a,a-Trifluorotoluene	(FID Surrogate)	95.2	%	70 - 130 (LCL - UCL)	Luft			1		

			Run		QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1008393	3-07 Client Sampl	e Name:	1156, SB-12-35, 6/	15/2010 10:58:00)AM		_
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						QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-8260	06/23/10	06/24/10 02:06	ADC	MS-V2	1	BTF1631		



Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-07	Client Sampl	e Name:	1156, SB-12-35, 6/1	1156, SB-12-35, 6/15/2010 10:58:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	95.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	94.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1	008393-08	Client Sampl	e Name:	1156, SB-12-41, 6/1	15/2010 11:42:00	AM		
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 (Surr	ogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	105	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/28/10 11:24	ADC	MS-V2	5	BTF1700	



Delta Environmental Consultants, Inc. Reported: 07/09/2010 14:13

11050 White Rock Rd, Suite 110 Project: 1156
Rancho Cordova, CA 95670 Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID:	1008393-08	Client Sampl	e Name:	1156, SB-12-41, 6/1	156, SB-12-41, 6/15/2010 11:42:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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 (Surroga	te)	92.3	%	20 - 145 (LCL - UCL)	Luft/FFP			2		
a,a,a-Trifluorotoluene	(FID Surrogate)	107	%	70 - 130 (LCL - UCL)	Luft			1		

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 100	08393-09 Client	Sample Name:	1156, SB-12-45	i, 6/15/2010 11:45:00/	AM		
Constituent	Re	sult Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	N	ID mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	N	ID mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	Ν	ID mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	N	ID mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	N	ID mg/kg	0.0050	EPA-8260	ND		1
Toluene	N	ID mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	Ν	ID mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	Ν	ID mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	N	ID mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	N	ID mg/kg	0.0050	EPA-8260	ND		1
Ethanol	N	ID mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	Ν	ID mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrog	gate) 97	7.2 %	70 - 121 (LCL - UC	L) EPA-8260			1
Toluene-d8 (Surrogate)	96	6.4 %	81 - 117 (LCL - UC	L) EPA-8260			1
4-Bromofluorobenzene (Surro	gate) 96	5.7 %	74 - 121 (LCL - UC	L) EPA-8260			1

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



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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

BCL Sample ID:	1008393-09	Client Sampl	e Name:	1156, SB-12-45, 6/15/2010 11:45:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Orga	nics (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 (Surroga	te)	97.6	%	20 - 145 (LCL - UCL)	Luft/FFP			2	
a,a,a-Trifluorotoluene	(FID Surrogate)	91.8	%	70 - 130 (LCL - UCL)	Luft			1	

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1	008393-10	Client Sampl	e Name:	1156, SB-12-50, 6/1	5/2010 11:54:00	AM		
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 (Surr	rogate)	98.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	103	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



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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

BCL Sample ID:	1008393-10	Client Sampl	e Name:	1156, SB-12-50, 6/1	15/2010 11:54:00	0 11:54:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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 (Surroga	te)	89.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2		
a,a,a-Trifluorotoluene	(FID Surrogate)	96.5	%	70 - 130 (LCL - UCL)	Luft			1		

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10	08393-11 Clie	nt Sample Nan	ne:	1156, SB-16-8, 6/16	/2010 12:46:00PM			
Constituent	R	esult Uı	nits	PQL	Method	MB Bias	Lab Quals	Run #
Benzene		ND mg	g/kg	0.025	EPA-8260	ND	A10	1
1,2-Dibromoethane		ND mg	g/kg	0.025	EPA-8260	ND	A10	1
1,2-Dichloroethane		ND mo	g/kg	0.025	EPA-8260	ND	A10	1
Ethylbenzene		ND mọ	g/kg	0.025	EPA-8260	ND	A10	1
Methyl t-butyl ether		ND mọ	g/kg	0.025	EPA-8260	ND	A10	1
Toluene		ND mọ	g/kg	0.025	EPA-8260	ND	A10	1
Total Xylenes		ND mg	g/kg	0.050	EPA-8260	ND	A10	1
t-Amyl Methyl ether		ND mg	g/kg	0.025	EPA-8260	ND	A10	1
t-Butyl alcohol		ND mg	g/kg	0.25	EPA-8260	ND	A10	1
Diisopropyl ether		ND mọ	g/kg	0.025	EPA-8260	ND	A10	1
Ethanol		ND mg	g/kg	5.0	EPA-8260	ND	A10	1
Ethyl t-butyl ether		ND mo	g/kg	0.025	EPA-8260	ND	A10	1
1,2-Dichloroethane-d4 (Surro	gate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	gate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID: 1008393-11 Client Sa			e Name:	: 1156, SB-16-8, 6/16/2010 12:46:00PM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Orga	nics (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 (Surroga	te)	100	%	20 - 145 (LCL - UCL)	Luft/FFP			2	
a,a,a-Trifluorotoluene	(FID Surrogate)	87.5	%	70 - 130 (LCL - UCL)	Luft			1	

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10	08393-12	Client Sampl	e Name:	1156, SB-16-10, 6/	16/2010 12:49:00	PM		
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 (Surro	gate)	91.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	ogate)	109	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-12	Client Sampl	e Name:	1156, SB-16-10, 6/1	1156, SB-16-10, 6/16/2010 12:49:00PM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (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 (Surroga	te)	77.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	97.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10	08393-13	Client Sampl	e Name:	1156, SB-16-15, 6/1	16/2010 12:55:00	PM		
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 (Surro	gate)	96.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	ogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

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

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-13	Client Sampl	e Name:	1156, SB-16-15, 6/	1156, SB-16-15, 6/16/2010 12:55:00PM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	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					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

1008393-14	Client Sampl	e Name:	1156, SB-16-20, 6/1	6/2010 1:00:00	PM		
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.010	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
rogate)	97.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
	97.0	%	81 - 117 (LCL - UCL)	EPA-8260			1
rrogate)	93.7	%	74 - 121 (LCL - UCL)	EPA-8260			1
	rrogate)	Result ND ND ND ND ND ND ND N	Result Units ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg Trogate) 97.1 % 97.0 %	Result Units PQL ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 1.0 ND mg/kg 0.0050 ND mg/kg 0.0050 Trogate) 97.1 % 70 - 121 (LCL - UCL) 97.0 % 81 - 117 (LCL - UCL)	Result Units PQL Method ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.010 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 1.0 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 Trogate) 97.1 % 70 - 121 (LCL - UCL) EPA-8260 97.0 % 81 - 117 (LCL - UCL) EPA-8260	Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 1.0 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.00	Result Units PQL Method Bias Bias Dquals ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-14	Client Sampl	e Name:	1156, SB-16-20, 6/1	1156, SB-16-20, 6/16/2010 1:00:00PM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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 (Surroga	te)	89.3	%	20 - 145 (LCL - UCL)	Luft/FFP			2		
a,a,a-Trifluorotoluene	(FID Surrogate)	73.0	%	70 - 130 (LCL - UCL)	Luft			1		

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

1008393-15	Client Sample	e Name:	1156, SB-16-25, 6/1	6/2010 1:10:00	PM		
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	0.0061	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.010	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
rogate)	98.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
	97.6	%	81 - 117 (LCL - UCL)	EPA-8260			1
rrogate)	96.9	%	74 - 121 (LCL - UCL)	EPA-8260			1
	rogate)	Result ND ND ND ND ND ND ND N	Result Units ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg P0 mg/kg ND mg/kg ND mg/kg P0 mg/kg	Result Units PQL ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.010 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 rogate) 98.3 % 70 - 121 (LCL - UCL) 97.6 % 81 - 117 (LCL - UCL)	Result Units PQL Method ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.010 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 1.0 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 POS POS EPA-8260 EPA-8260 POS POS EPA-8260 EPA-8260	Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 1.0 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0	Result Units PQL Method Bias Bias Dquals ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-15	Client Sampl	e Name:	1156, SB-16-25, 6/1	16/2010 1:10:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	96.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	89.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

	Client Sampl	e Name:	ne: 1156, SB-16-30, 6/16/2010 1:10:00PM				
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	0.041	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.010	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
ogate)	94.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
	98.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
rogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1
		ND ND ND ND O.041 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND mg/kg ND mg/kg ND mg/kg ND mg/kg 0.041 mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg Ogate) 94.7 % 98.8 %	ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.010 ND mg/kg 0.0050 ND mg/kg 0.050 ND mg/kg 0.0050 ND mg/kg 1.0 ND mg/kg 0.0050 ogate) 94.7 % 70 - 121 (LCL - UCL) 98.8 % 81 - 117 (LCL - UCL)	ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260	Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.010 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0	Result Units PQL Method Bias Quals ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND <td< td=""></td<>

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



Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-16	Client Sampl	e Name:	1156, SB-16-30, 6/1	16/2010 1:10:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	93.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	92.5	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 100	08393-17 Client	Sample Name:	1156, SB-16-35,	6/16/2010 1:25:00F	PM		
Constituent	Re	sult Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	N	D mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	N	D mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	N	D mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	N	D mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	N	D mg/kg	0.0050	EPA-8260	ND		1
Toluene	N	D mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	N	D mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	N	D mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	N	D mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	N	D mg/kg	0.0050	EPA-8260	ND		1
Ethanol	N	D mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	N	D mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrog	gate) 95	5.9 %	70 - 121 (LCL - UCI	_) EPA-8260			1
Toluene-d8 (Surrogate)	96	5.6 %	81 - 117 (LCL - UCI	_) EPA-8260			1
4-Bromofluorobenzene (Surro	gate) 98	3.0 %	74 - 121 (LCL - UCI	_) EPA-8260			1

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-17	Client Sampl	e Name:	1156, SB-16-35, 6/1	1156, SB-16-35, 6/16/2010 1:25:00PM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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 (Surroga	te)	94.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2		
a,a,a-Trifluorotoluene	(FID Surrogate)	93.8	%	70 - 130 (LCL - UCL)	Luft			1		

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 100	08393-18 Clier	nt Sample Name:	1156, SE	3-16-40, 6/16/2010 1:37	7:00PM		
Constituent	R	esult Unit	s PQL	Method	MB Bias	Lab Quals	Run #
Benzene		ND mg/k	g 0.0050	EPA-8260	ND		1
1,2-Dibromoethane		ND mg/k	g 0.0050	EPA-8260	ND		1
1,2-Dichloroethane		ND mg/k	g 0.0050	EPA-8260	ND		1
Ethylbenzene		ND mg/k	g 0.0050	EPA-8260	ND		1
Methyl t-butyl ether		ND mg/k	g 0.0050	EPA-8260	ND		1
Toluene		ND mg/k	g 0.0050	EPA-8260	ND		1
Total Xylenes		ND mg/k	g 0.010	EPA-8260	ND		1
t-Amyl Methyl ether		ND mg/k	g 0.0050	EPA-8260	ND		1
t-Butyl alcohol		ND mg/k	g 0.050	EPA-8260	ND		1
Diisopropyl ether		ND mg/k	g 0.0050	EPA-8260	ND		1
Ethanol		ND mg/k	g 1.0	EPA-8260	ND		1
Ethyl t-butyl ether		ND mg/k	g 0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surro	gate) 9	98.1 %	70 - 121 (L	CL - UCL) EPA-8260			1
Toluene-d8 (Surrogate)	ę	98.6 %	81 - 117 (L	CL - UCL) EPA-8260			1
4-Bromofluorobenzene (Surro	gate) 9	98.9 %	74 - 121 (L	CL - UCL) EPA-8260			1

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



Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-18	Client Sampl	e Name:	1156, SB-16-40, 6/1	16/2010 1:37:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (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 (Surroga	te)	84.8	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID:	1008393-19	Client Sampl	e Name:	1156, SB-16-46, 6/1	6/2010 1:46:00	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 (Su	rrogate)	95.6	%	70 - 121 (LCL - UCL)	EPA-8260			1		
Toluene-d8 (Surrogate)		97.2	%	81 - 117 (LCL - UCL)	EPA-8260			1		
4-Bromofluorobenzene (Su	ırrogate)	98.9	%	74 - 121 (LCL - UCL)	EPA-8260			1		

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



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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

BCL Sample ID:	1008393-19	Client Sampl	e Name:	1156, SB-16-46, 6/1	16/2010 1:46:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	86.3	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	99.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID: 1	008393-20	Client Sampl	e Name:	1156, SB-16-50, 6/1	16/2010 1:48:00	РМ		
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 (Surr	ogate)	94.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	97.9	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-20	Client Sampl	e Name:	1156, SB-16-50, 6/1	16/2010 1:48:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	86.8	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	92.8	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1	008393-21	Client Sampl	e Name:	1156, SB-17-5, 6/16	6/2010 10:25:00A	M		
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 (Surr	ogate)	94.9	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		98.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Suri	rogate)	98.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



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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

BCL Sample ID:	1008393-21	Client Sampl	e Name:	1156, SB-17-5, 6/16	6/2010 10:25:00AN	Л		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	te)	77.1	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1	008393-22	Client Sampl	e Name:	1156, SB-17-10, 6/1	16/2010 10:28:00	AM		
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 (Surr	ogate)	95.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	97.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



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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

BCL Sample ID:	1008393-22	Client Sampl	e Name:	1156, SB-17-10, 6/1	1156, SB-17-10, 6/16/2010 10:28:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	82.5	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	107	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10083	93-23 Client Sa	ample Name:	1156, SB-17-15, (6/16/2010 10:30:00	AM		_
Constituent	Resul	t 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	e) 102	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



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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

BCL Sample ID:	1008393-23	Client Sampl	e Name:	1156, SB-17-15, 6/1	16/2010 10:30:00)AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	91.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	97.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run	QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1	008393-24	Client Sample	e Name:	1156, SB-17-20, 6/1	16/2010 10:11:00	AM		
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 (Surr	ogate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		126	%	81 - 117 (LCL - UCL)	EPA-8260		S09	1
4-Bromofluorobenzene (Sur	rogate)	172	%	74 - 121 (LCL - UCL)	EPA-8260		S09	1

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-24	Client Sampl	e Name:	1156, SB-17-20, 6/1	16/2010 10:11:00)AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	896	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	110	%	70 - 130 (LCL - UCL)	Luft			1

			Run		QC		
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1	008393-25	Client Sample	e Name:	1156, SB-17-25, 6/1	16/2010 10:17:00	MAC		
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 (Surr	ogate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		105	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	108	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



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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

BCL Sample ID:	1008393-25	Client Sampl	e Name:	1156, SB-17-25, 6/1	1156, SB-17-25, 6/16/2010 10:17:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	0	%	20 - 145 (LCL - UCL)	Luft/FFP		A01,A17	2
a,a,a-Trifluorotoluene	(FID Surrogate)	104	%	70 - 130 (LCL - UCL)	Luft			1

			Run	QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 100)8393-26 Clien	t Sample Name:	1156, SB-17-	30, 6/16/2010 10:20:00)AM		
Constituent	Re	sult Units	s PQL	Method	MB Bias	Lab Quals	Run #
Benzene	1	ND mg/kç	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	1	ND mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	١	ND mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	١	ND mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	١	ND mg/kg	0.0050	EPA-8260	ND		1
Toluene	1	ND mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	١	ND mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	1	ND mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	١	ND mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	١	ND mg/kg	0.0050	EPA-8260	ND		1
Ethanol	١	ND mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	1	ND mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrog	gate) 9	3.7 %	70 - 121 (LCL - I	UCL) EPA-8260			1
Toluene-d8 (Surrogate)	9	9.6 %	81 - 117 (LCL - I	UCL) EPA-8260			1
4-Bromofluorobenzene (Surro	gate) 9	6.7 %	74 - 121 (LCL - I	UCL) EPA-8260			1

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID:	1008393-26	Client Sampl	e Name:	1156, SB-17-30, 6/1	1156, SB-17-30, 6/16/2010 10:20:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (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 (Surroga	te)	93.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	94.8	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 100	08393-27 Client	Sample Name:	1156, SB-17-35,	6/16/2010 10:24:00A	М		
Constituent	Re	sult Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	N	D mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	N	D mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	N	D mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	N	D mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	N	D mg/kg	0.0050	EPA-8260	ND		1
Toluene	N	D mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	N	D mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	N	D mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	N	D mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	N	D mg/kg	0.0050	EPA-8260	ND		1
Ethanol	N	D mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	N	D mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrog	gate) 99	9.3 %	70 - 121 (LCL - UCI	_) EPA-8260			1
Toluene-d8 (Surrogate)	98	s.1 %	81 - 117 (LCL - UCI	_) EPA-8260			1
4-Bromofluorobenzene (Surro	gate) 96	5.7 %	74 - 121 (LCL - UCI	_) EPA-8260			1

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-27	Client Sampl	e Name:	1156, SB-17-35, 6/	16/2010 10:24:00)AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	89.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	95.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10	08393-28 Clie	ent Sample Na	ame:	1156, SB-17-40, 6/1	6/2010 10:44:00AM			
Constituent		Result I	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 (Surro	gate)	98.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	ogate)	95.8	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-28	Client Sampl	e Name:	1156, SB-17-40, 6/	16/2010 10:44:00	DAM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	te)	93.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	87.5	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID: 10	008393-29	Client Sample	e Name:	1156, SB-17-47, 6/1	16/2010 11:02:00	AM		
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 (Surro	ogate)	102	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		114	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	110	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-29	Client Sampl	e Name:	1156, SB-17-47, 6/1	1156, SB-17-47, 6/16/2010 11:02:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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 (Surroga	te)	91.8	%	20 - 145 (LCL - UCL)	Luft/FFP			2		
a,a,a-Trifluorotoluene	(FID Surrogate)	76.0	%	70 - 130 (LCL - UCL)	Luft			1		

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10083	393-30 Client S	ample Name:	1156, SB-17-50,	6/16/2010 11:03:00		_	
Constituent	Resu	It 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 (Surrogat	e) 102	%	74 - 121 (LCL - UCL) EPA-8260			1

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-30	Client Sampl	e Name:	1156, SB-17-50, 6/1				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	93.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	96.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run	QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1	008393-31	Client Sample	e Name:	1156, SB-18-7.5, 6/	15/2010 3:05:00)PM		
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 (Surr	ogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		96.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Suri	rogate)	85.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

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

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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

BCL Sample ID:	1008393-31	Client Sampl	e Name:	1156, SB-18-7.5, 6/15/2010 3:05:00PM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	ite)	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		QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 1	008393-32	Client Sample	e Name:	1156, SB-18-10, 6/1	5/2010 3:13:00	PM		
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 (Surr	ogate)	96.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	94.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-32	Client Sampl	e Name:	1156, SB-18-10, 6/1	1156, SB-18-10, 6/15/2010 3:13:00PM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Orga	nics (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 (Surroga	te)	95.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2	
a,a,a-Trifluorotoluene	(FID Surrogate)	115	%	70 - 130 (LCL - UCL)	Luft			1	

			Run			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-33	Client Sample	e Name:	1156, SB-18-15, 6/1	5/2010 3:19:00	PM		
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 (S	urrogate)	103	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (S	urrogate)	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 (S	Surrogate)	95.2	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (S	Surrogate)	96.0	%	74 - 121 (LCL - UCL)	EPA-8260			2

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 1008393-	33 Client Sampl	e Name:	1156, SB-18-15, 6/1	15/2010 3:19:00	PM		
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				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	



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

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

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID: 10	08393-34	Client Sample	e Name:	1156, SB-18-20, 6/1	5/2010 3:26:00	PM		
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 (Surro	gate)	93.8	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		97.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surre	ogate)	98.2	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



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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

BCL Sample ID:	1008393-34	Client Sampl	e Name:	1156, SB-18-20, 6/	15/2010 3:26:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	84.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	92.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10	008393-35	Client Sampl	e Name:	1156, SB-19-7.5, 6/	15/2010 2:30:00	PM		
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 (Surro	ogate)	95.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		98.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	96.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

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

Delta Environmental Consultants, Inc.

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Reported: 07/09/2010 14:13 Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-35	Client Sampl	e Name:	1156, SB-19-7.5, 6/	15/2010 2:30:00)PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	anics (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 (Surroga	ite)	76.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	111	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10	008393-36	Client Sampl	e Name:	1156, SB-19-10, 6/1	15/2010 2:30:00	PM		
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 (Surro	ogate)	98.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		98.8	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	98.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



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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

BCL Sample ID:	1008393-36	Client Sampl	e Name:	1156, SB-19-10, 6/1	15/2010 2:30:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	84.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 10	008393-37	Client Sample	Name:	1156, SB-19-15, 6/1	5/2010 2:42:00	PM		
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 (Surro	ogate)	94.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	98.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

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



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID:	1008393-37	Client Sampl	e Name:	1156, SB-19-15, 6/1	15/2010 2:42:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	87.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	74.5	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

07/09/2010 14:13 Reported:

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

	1 Short Campi	e Name:	1156, SB-19-20, 6/1	5/2010 2:52:00	PIVI		
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	0.013	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.010	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
ogate)	101	%	70 - 121 (LCL - UCL)	EPA-8260			1
	103	%	81 - 117 (LCL - UCL)	EPA-8260			1
rogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1
		ND ND ND ND O.013 ND ND ND ND ND ND ND ND ND ND ND ND ND	ND mg/kg ND mg/kg ND mg/kg ND mg/kg 0.013 mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg Ogate) 101 % 103 %	ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 1.0 ND mg/kg 0.0050 ogate) 101 % 70 - 121 (LCL - UCL) 103 % 81 - 117 (LCL - UCL)	ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 Ogate) 101 % 70 - 121 (LCL - UCL) EPA-8260	Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg <td< td=""><td>Result Units PQL Method Bias Quals ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND</td></td<>	Result Units PQL Method Bias Quals ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND

			QC					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/23/10	06/24/10 06:21	JSK	MS-V3	1	BTF1746	



Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008393-38	Client Sampl	e Name:	1156, SB-19-20, 6/1	15/2010 2:52:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	80.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	94.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	



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: 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		
-Amyl Methyl ether	BTF1627-BLK1	ND	mg/kg	0.0050		
-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 - 12	1 (LCL - UCL)	
Foluene-d8 (Surrogate)	BTF1627-BLK1	101	%	81 - 11	7 (LCL - UCL)	
I-Bromofluorobenzene (Surrogate)	BTF1627-BLK1	103	%	74 - 12	1 (LCL - UCL)	
QC Batch ID: BTF1631	DTE4CO4 DLIVA	ND		0.0050		
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		
-Amyl Methyl ether	BTF1631-BLK1	ND	mg/kg	0.0050		
-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 - 12	1 (LCL - UCL)	
Toluene-d8 (Surrogate)	BTF1631-BLK1	102	%	81 - 11	7 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BTF1631-BLK1	95.8	%	74 - 12	1 (LCL - UCL)	
QC Batch ID: BTF1700						
Benzene	BTF1700-BLK1	ND	mg/kg	0.0050		



Delta Environmental Consultants, Inc. Reported: 07/09/2010 14:13

11050 White Rock Rd, Suite 110 Project: 1156
Rancho Cordova, CA 95670 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	1 (LCL - UCL)	
Toluene-d8 (Surrogate)	BTF1700-BLK1	99.0	%	81 - 117	7 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BTF1700-BLK1	102	%	74 - 121	1 (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	1 (LCL - UCL)	
Toluene-d8 (Surrogate)	BTF1728-BLK1	97.2	%	81 - 117	7 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BTF1728-BLK1	96.4	%		1 (LCL - UCL)	
QC Batch ID: BTF1746						
Benzene	BTF1746-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BTF1746-BLK1	ND	mg/kg	0.0050		



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)	



Reported: 07/09/2010 14:13

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 Rest QC Batch ID: BTF1627 Benzene BTF1627-BS1 LCS 0.126 Toluene BTF1627-BS1 LCS 0.120 1,2-Dichloroethane-d4 (Surrogate) BTF1627-BS1 LCS 0.0517 1,2-Dichloroethane-d4 (Surrogate) BTF1627-BS1 LCS 0.0517 4-Bromofluorobenzene (Surrogate) BTF1627-BS1 LCS 0.0517 QC Batch ID: BTF1631 BTF1631-BS1 LCS 0.021 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0486 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0124 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1728-BS1 </th <th>683</th>	683
Description	683
Benzene	023
Toluene BTF1627-BS1 LCS 0.120 1,2-Dichloroethane-d4 (Surrogate) BTF1627-BS1 LCS 0.0517 4-Bromofluorobenzene (Surrogate) BTF1627-BS1 LCS 0.0517 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0517 QC Batch ID: BTF1631 Benzene BTF1631-BS1 LCS 0.124 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1631-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0496 QC Batch ID: BTF1700 Benzene BTF1700-BS1 LCS 0.124 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0496 Toluene BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0496 QC Batch ID: BTF1728 Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.1124	023
1,2-Dichloroethane-d4 (Surrogate) BTF1627-BS1 LCS 0.0518 Toluene-d8 (Surrogate) BTF1627-BS1 LCS 0.0514 4-Bromofluorobenzene (Surrogate) BTF1627-BS1 LCS 0.0514 QC Batch ID: BTF1631 BTF1631-BS1 LCS 0.124 Toluene BTF1631-BS1 LCS 0.0486 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0496 QC Batch ID: BTF1700 BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.114 Toluene BTF1728-BS1 LCS 0.124	1825 0.050000 mg/kg 104 70 - 121 1142 0.050000 mg/kg 102 81 - 117 1436 0.050000 mg/kg 103 74 - 121 163 0.12500 mg/kg 97.3 70 - 130 472 0.12500 mg/kg 99.8 70 - 130 3892 0.050000 mg/kg 97.8 70 - 121 9563 0.050000 mg/kg 99.1 81 - 117 9079 0.050000 mg/kg 98.2 74 - 121 430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
Toluene-d8 (Surrogate) 4-Bromofluorobenzene (Surrogate) BTF1627-BS1 LCS 0.0514 4-Bromofluorobenzene (Surrogate) BTF1627-BS1 LCS 0.0514 Benzene BTF1631-BS1 LCS 0.124 Toluene BTF1631-BS1 LCS 0.124 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.0488 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0488 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0488 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0499 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 DCS 0.0514 BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.1124	1142 0.050000 mg/kg 102 81 - 117 1436 0.050000 mg/kg 103 74 - 121 163 0.12500 mg/kg 97.3 70 - 130 472 0.12500 mg/kg 99.8 70 - 130 8892 0.050000 mg/kg 97.8 70 - 121 9563 0.050000 mg/kg 99.1 81 - 117 9079 0.050000 mg/kg 98.2 74 - 121 430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
4-Bromofluorobenzene (Surrogate) BTF1627-BS1 LCS 0.0514 QC Batch ID: BTF1631 Benzene BTF1631-BS1 LCS 0.124 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0498 QC Batch ID: BTF1700 Benzene BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.0488 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0498 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0498 BTF1700-BS1 LCS 0.0514 DCS 0.0514 DCS 0.0514 DCS 0.113 BTF1728-BS1 LCS 0.113 DOS 1.24	1436 0.050000 mg/kg 103 74 - 121 163 0.12500 mg/kg 97.3 70 - 130 472 0.12500 mg/kg 99.8 70 - 130 3892 0.050000 mg/kg 97.8 70 - 121 9563 0.050000 mg/kg 99.1 81 - 117 9079 0.050000 mg/kg 98.2 74 - 121 430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
QC Batch ID: BTF1631 Benzene BTF1631-BS1 LCS 0.121 Toluene BTF1631-BS1 LCS 0.124 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1631-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0496 QC Batch ID: BTF1700 BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0514 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	163
Benzene BTF1631-BS1 LCS 0.121 Toluene BTF1631-BS1 LCS 0.124 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1631-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0496 QC Batch ID: BTF1700 BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0514 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 BENZENE BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	472 0.12500 mg/kg 99.8 70 - 130 8892 0.050000 mg/kg 97.8 70 - 121 9563 0.050000 mg/kg 99.1 81 - 117 9079 0.050000 mg/kg 98.2 74 - 121 430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
Toluene BTF1631-BS1 LCS 0.124 1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0488 Toluene-d8 (Surrogate) BTF1631-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0498 QC Batch ID: BTF1700 Benzene BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0488 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0499 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	472 0.12500 mg/kg 99.8 70 - 130 8892 0.050000 mg/kg 97.8 70 - 121 9563 0.050000 mg/kg 99.1 81 - 117 9079 0.050000 mg/kg 98.2 74 - 121 430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
1,2-Dichloroethane-d4 (Surrogate) BTF1631-BS1 LCS 0.0488 Toluene-d8 (Surrogate) BTF1631-BS1 LCS 0.0498 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0498 QC Batch ID: BTF1700 BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	3892 0.050000 mg/kg 97.8 70 - 121 9563 0.050000 mg/kg 99.1 81 - 117 9079 0.050000 mg/kg 98.2 74 - 121 430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
Toluene-d8 (Surrogate) BTF1631-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1631-BS1 LCS 0.0496 QC Batch ID: BTF1700 Benzene BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	9563 0.050000 mg/kg 99.1 81 - 117 9079 0.050000 mg/kg 98.2 74 - 121 430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
QC Batch ID: BTF1700 BTF1700-BS1 LCS 0.0490 Benzene BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0480 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0490 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0510 QC Batch ID: BTF1728 BFF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	9079 0.050000 mg/kg 98.2 74 - 121 430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
QC Batch ID: BTF1700 BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	430 0.12500 mg/kg 91.4 70 - 130 357 0.12500 mg/kg 98.9 70 - 130
Benzene BTF1700-BS1 LCS 0.114 Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0497 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	357 0.12500 mg/kg 98.9 70 - 130
Toluene BTF1700-BS1 LCS 0.123 1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0497 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	357 0.12500 mg/kg 98.9 70 - 130
1,2-Dichloroethane-d4 (Surrogate) BTF1700-BS1 LCS 0.0486 Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.0496 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0516 QC Batch ID: BTF1728 BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	
Toluene-d8 (Surrogate) BTF1700-BS1 LCS 0.049 4-Bromofluorobenzene (Surrogate) BTF1700-BS1 LCS 0.0514 QC Batch ID: BTF1728 Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	3627 0.050000 mg/kg 97.3 70 - 121
QC Batch ID: BTF1728 BTF1728-BS1 LCS 0.0514 Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	
QC Batch ID: BTF1728 BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	9186 0.050000 mg/kg 98.4 81 - 117
Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	1460 0.050000 mg/kg 103 74 - 121
Benzene BTF1728-BS1 LCS 0.113 Toluene BTF1728-BS1 LCS 0.124	
	364 0.12500 mg/kg 90.9 70 - 130
1,2-Dichloroethane-d4 (Surrogate) BTF1728-BS1 LCS 0.0484	439 0.12500 mg/kg 99.5 70 - 130
	3429 0.050000 mg/kg 96.9 70 - 121
Toluene-d8 (Surrogate) BTF1728-BS1 LCS 0.0499	9953 0.050000 mg/kg 99.9 81 - 117
4-Bromofluorobenzene (Surrogate) BTF1728-BS1 LCS 0.0508	0818 0.050000 mg/kg 102 74 - 121
QC Batch ID: BTF1746	
Benzene BTF1746-BS1 LCS 0.116	617 0.12500 mg/kg 92.9 70 - 130
Toluene BTF1746-BS1 LCS 0.111	198 0.12500 mg/kg 89.6 70 - 130
1,2-Dichloroethane-d4 (Surrogate) BTF1746-BS1 LCS 0.0514	1471 0.050000 mg/kg 103 70 - 121
Toluene-d8 (Surrogate) BTF1746-BS1 LCS 0.051	
4-Bromofluorobenzene (Surrogate) BTF1746-BS1 LCS 0.0498	3 3



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

									Con	trol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTF1627	Used	client sample	· N								
Benzene	MS MS	1007897-25	ND	0.12054	0.12500	mg/kg		96.4		70 - 130	
Benzene	MSD	1007897-25	ND	0.12615	0.12500	mg/kg	4.5	101	20	70 - 130	
Toluene		1007897-25	ND	0.12430	0.12500			99.4		70 - 130	
Tolderie	MS MSD	1007897-25	ND	0.12430	0.12500	mg/kg mg/kg	3.1	96.4	20	70 - 130 70 - 130	
4.0 Diables of the second 4.00 mm and 4.0											
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-25 1007897-25	ND ND	0.050874 0.051721	0.050000 0.050000	mg/kg		102 103		70 - 121 70 - 121	
	MSD					mg/kg					
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	
00 B-4-1-1D- DTE4700	Llsad	client sample	· NI								
QC Batch ID: BTF1700 Benzene	MS MS	1007897-51	ND	0.11328	0.12500	mg/kg		90.6		70 - 130	
Belizelle	MSD	1007897-51	ND	0.11326	0.12500	mg/kg	6.8	97.0	20	70 - 130	
Talvana							0.0			70 - 130	
Toluene	MS MSD	1007897-51 1007897-51	ND ND	0.12050 0.12572	0.12500 0.12500	mg/kg mg/kg	4.2	96.4 101	20	70 - 130 70 - 130	
4.0 Diables of the second 4.00 mm and 4.0							7.2				
1,2-Dichloroethane-d4 (Surrogate)	MS	1007897-51 1007897-51	ND ND	0.050225 0.048501	0.050000 0.050000	mg/kg		100 97.0		70 - 121 70 - 121	
	MSD					mg/kg					
Toluene-d8 (Surrogate)	MS	1007897-51 1007897-51	ND	0.050084	0.050000	mg/kg		100		81 - 117	
	MSD		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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Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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. Reported: 07/09/2010 14:13

11050 White Rock Rd, Suite 110 Project: 1156
Rancho Cordova, CA 95670 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	5 (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	5 (LCL - UCL)	



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

								Control L	<u>imits</u>	
		_		Spike		Percent		Percent		
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		



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

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
	Hood	aliant aamala	. NI								
QC Batch ID: BTF1614		client sample:									
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 - Descr	ription: SB-1	6-46, 06/16/2	2010 13:46	3				
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 - Descr	ription: SB-1	7-50, 06/16/2	2010 11:03	3				
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	



Delta Environmental Consultants, Inc.

Reported: 07/09/2010 14:13
11050 White Rock Rd, Suite 110

Project: 1156

Rancho Cordova, CA 95670 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		



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Laboratory Control Sample

								Control L	<u>imits</u>	
				Spike		Percent		Percent		
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
QC Batch ID: BTG0073										
Oil and Grease	BTG0073-BS1	LCS	592.00	743.00	mg/kg	79.7		59 - 117		



Reported: 07/09/2010 14:13

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTG0073	Used	client sample:	Y - Descr	iption: SB-1	8-15. 06/15/2	2010 15:19	9				
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. Reported: 07/09/2010 14:13

11050 White Rock Rd, Suite 110 Project: 1156

Rancho Cordova, CA 95670 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

PQL's and MDL's are raised due to sample dilution. A01

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.

RAN SAMPLE SEVERAL TIMES NEEDED DILUTION DUE TO NEEDLE PLUGGING Ζ1



Date of Report: 07/07/2010

Jim Barnard

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

1156 RE: 1008640 BC Work Order: B082948 Invoice ID:

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

Molly Meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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BC Laboratories, Inc.	nocoPhillips Site Manager:		Shelby I	athrop	ConocoPt	hillips SAP Project Number	- [1 - 11 -
4100 Atlas Court INV	OICE REMITTANCE ADDRES	SS:		CONOCOPHILLIPS			DATE: WITIO
Bakersfield, CA 93308				Attn: Dee Hutchinson 3611 South Harbor, Suite 200	ConscoPhil	ps Requisition / Line Numb	ber
(661) 327-4911 (661) 327-1918 fax				Santa Ana, CA. 92704			PAGE: of
SAMPLING COMPANY: VARV	Value ID	CONOCOPHILLIPS MITE N	UMBER			GLOBAL IO NO.:	
Delta Consultants		SS# 1156 SITE ADDRESS (Street are	(First			CONOCOPHILLIPS SITE MAN	MODERN .
11050 White Rock Road #110, Rancho Cordova, CA 9	04070	4276 MacArthur Bi		•4		Terry Grayson	
PROJECT CONTACT (Hardcopy or PGF Report to): James Barmard		EDF DELIVERABLE TO (RE	, .		FROME NO:		LAB USE ONLY
TELEPHONE: PAX: E.MA	IZII:				916-503-1279	Terry L. Grayson@contra	1008640
(contract the first trac	naruggenaerw.com	James Barnard (D	епа)			cior conocaphilips com	100010
Alan Buehler/Caitlin Morgan	C101156			REG	UESTED ANALYSES		1
TURMAROUND TIME (CALENDAR DAYS):							
☐ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 P	HOURS LESS THAN 24 HOURS						
**8 Day Turn							FIELD NOTES:
SPECIAL INSTRUCTIONS OR NOTES: C	CHECK BOX IF EDO IS NEEDED [2]						Container/Preservative or PID Readings
Please CC Alan Buehler (abuehler@deltae	env.com) and	PHd 8					or Laboratory Notes
Caitlin Morgan (cmorgan@deltaenv.com)) on reports	-THP9.1	Ē.				
* Field Point name only required if different from Sam,	note IO	8015M - THPg, TPHd 8260B - BTEX, 8 Oxys	8015M - TPHmo				
	SAMPLING MO, OF	8015M - 8260B -	8015M				TEMPERATURE ON RECEIPT C*
ovcy Name* D/	MATE TIME CONT.						Various Preservatives
- i SB-14-8 6 0	17 150 soil 1	x x	x				Not Field Filtered Various Preservatives
-2 SB-14-10 OL	(17 (1:50 soil 1	x x	х	CHK BY	KICH BUTS		Not Field Filtered
-3 SB-14-15 O/	17 11:54 soil 1	x x	x	1	308 20		Various Preservatives Not Field Filtered
-4/ SB-14-20	(7 12:01 soil 1	x x	х	612	SUB-DUI		Various Preservatives Not Field Filtered
-5 SB-14-26 26 01	115 12:07 soil 1	x x	x				Various Preservatives Not Field Filtered
10/4	110 10:00	x x	x		1-1-1-	1 1 1 1 1	Not Piela Pitarea
001100	(100 (Soil 1	x x	x			 	
-7 SB-14-35 Q	767 174V Soll 1					 	
-8 SB-14-40 O/	(7) IL-(2 soll 1	X X	x				
-9 SB-14-45 (Q)	17 17:79 soll 1	x x	x				
-10 SB-14-50 - 10	17 12.10 soil 1	x x,	x				
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Koss Dickon 6/21/10	o RUKU	كتب			Č	0.21.10	1830
R. Chey . 1621-16	62200 received by followard				0	6/21/10	5 100 2700 J

Chain of Custody and Cooler Receipt Form for 1008640 Page 1 of 6 Laboratories, Inc.
Environmental Testing Laboratory Since 1949

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Laboratories, Inc. Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008640

Page 2 of 6

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Please CC Alar	Buehler (abuehler@d	deltaenv.c	om) and	d		- THPg, TPHd	8260B - BTEX, 8 Oxys																	'	or Laboratory Notes	,
1	(cmorgan@deltaenv.e					gå	l x	Ē									1									
Canani morgan	(onion garing a onionion	,				Ĕ	E	8015M - TPHmo	8	2										1						
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Environmental Testing La	Laboratori

Chain of Custody and Cooler Receipt Form for 1008640 ies, Inc.

Page 3 of 6

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BC Laboratori	es, Inc.	Conocol	Phillips S	ite Manag	ger:			_	Shelby	Lathro	p					ě	Conec	Philips	SAP Pro	oject Numb	er			
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Bakersfield, Co	A 93308									Attn:	Dee H	utchins Harbor		200			ConocoP	illips Re	quhitle	n / Line Nu	nter	DACE		
(661) 327-4911 (661)												CA. 927		200		-						PAGE:	u	
SAMPLING COMPANY:	027-1310 Tax	Valid Value ID:				сомосории	DPS SITE N	AJMBER										aro	184L 10 N	a:				
Delta Consultants					_	SS# 1156												1000	OCREMI	LIPS ATTE M	AWAGER			
ADDRESS: 11050 White Rock Road #11	10. Rancho Cordov	a. CA 95670				4276 Mac			Saldand :									- 1	rry Gray					
PROJECT CONTACT (Handropy or PD		,				EGF DELIMER				UM					PHEM	E MOL:		8.04	- '	,,,,,,,	LARI	USE OWLY		
James Barnard TELEPHONE:	FAX:	E-MAIL:							argreeq.							-503-12	79	Terr	y L. Grays	son@contra	100 400 575	0086	040	
	(916) 638-8385		deltaenv.co	m		James Ba	ernard (C	Delta)										stor	conscept	télips.com	- 1	Co	740	
SAMPLER NAME(S) (PHHI):		CONSULTANT	PROJECT NUM											REQ	UES	TED A	NALYS	s						
Alan Buehler/Caiti			C1011			_		_		_	1			_	Т	Т								
☐ 24 DAYS ☐ 7 DAYS ☐ 72	HOURS 48 HOURS	24 HOURS	Less 1	THAN 24 HOUR	15																'			
**8 Day Turn														- 1		Ш							FIELD NOTE	:S:
SPECIAL INSTRUCTIONS OR	NOTES:	CHECKE	BOX IF EDD IS	S NEEDED [2		1										Ш					'		Container/Preserv	
Please CC Alan Buel	blor (shuebler@)	doltaony c	om) and			꿆	8260B - BTEX, 8 Oxys						- 1			11							or Laboratory No	
Caitlin Morgan (cmo	_					тнРа, тРН	×	율								11					1			
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* Field Point name only red					10. OF	9016M -	ė	8015M - TPHmo	1664.1							ш						TEM	PERATURE ON RECEI	PTC"
ONLY Nam		DATE	TIME	MATRIX	CONT.	ğ	826	9	99	1	_		_		╄	\vdash	\perp	_	+	\vdash	\vdash	-	Various Preserv	atives
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73 SB-1		10/17	7:0	Soil	1	x	x	×															Not Field Filter	red
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	s-8181.5	10/17		Soil	1	-	×	x	-	+	+	\vdash	-	_	+	+	-	\dashv	+-	\vdash	+	\vdash	Various Preserva	atives
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-18 SB-1	5-35	10/17	1:24	Soil	1_	x	×	X		_	_				┸			_	\perp	₩		++		
-19 SB-1	5-40	6/17	2:40	Soil	1	x	×	х											\perp	\perp		\perp		
20 W 6/23 WER		VIDAGE !		-Soil	$\overline{}$	×	x	x																
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Resequitor by (Spranue)	1100	<u> </u>	1/10	phone las	2)	1244	<u>esc</u>	<u> </u>	-									Dage	-7			Tire	92.	
School Street and	i <i>ele</i> z 6/	21/10		Roceived by: (5	<u>a.a.a.</u> Speakers	لجسا	_						_					Date:		-10	_	Time	2 670	
Belgroushed by (Depailme)	1 1/21	- 20	100			1 1)												10	17	ulu	σ	10	ν	

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Chain of Custody and Cooler Receipt Form for 1008640 Page 4 of 6

C LABORATORIES INC.	S	AMPLE	RECEIP	TFORM	Rev.	No. 12 0	5/24/08	Page /	01_5	
ubmission #: 1008640							_			
SHIPPING INFORM	MATION					SHIPPING	G CONT. None			1
adams Express D LIPS D Hi	and Delive	ery 🗆		l lo	e Chest Z Box D			☐ (Specif	iv)	
C Lab Field Service Other	(Specity)_				DOX L	,		_ (-,-		
-		041	ner 🗆 🔻	Comment		The second second				
Refrigerant: Ice D∕ Blue Ice □	None C									
ustody Seals Icc Chest	Container		None∠	Comme	ıts:					
Intact? Yes No D	tact? Yes_C			1					f	
ll samples received? Yes □ No□ A	11 samples	containers	s intact? Y	est Noc)			h COC? Ye	s Of No	
	to the or	98 6	ontainer:	3di\w_1	hermomete	r ID: \\03	. 1	Date/Time	6-21-	2211
		rature: A 4 1								
ØYES □ NO Ter	nperature:	A 4	1	.c / c	1.5	°C		Analyst in	0101	-
	-	-			SAMPLE N	UMBERS				
SAMPLE CONTAINERS	1	2	3	4	5	- 6	7	8	9	10
OT GENERAL MINERALI GENERAL PHYSICAL										1
PT PE UNPRESERVED			-							+
OT INORGANIC CHEMICAL METALS				-						1
PT INORGANIC CHEMICAL METALS			-							
PT CYANIDE	-		+		-					
PT NITROGEN FORMS				-	-					
PT TOTAL SULFIDE			+							
202. NITRATE / NITRITE			-	_						
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										-
PIA PHENOLICS 40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	, t		1 1	1 t	()				<u>'</u>	+
QT EPA 413.1, 413.2, 418.1					-				-	_
PT ODOR			-	-	-	-		-		
RADIOLOGICAL		-				-				
BACTERIOLOGICAL		-	-	-	+					
40 ml VOA VLAL: 504	_	-	+	_	 					
QT EPA 508/608/8080	+		_							
OT EPA 515.1/8159										
OT EPA 525	1							-		
QT EPA 525 TRAVEL BLANK									-	
100ml EPA 547							-		+	
00ml EPA 531.1 OT EPA 548								-	-	
OT EPA 549							-	-	-	+
OT EPA 632					-			-		
QT EPA 8015M					-	-	-	-	+	
QT AMBER						-	+	_	_	
8 OZ. JAR		-			-	-		_		
32 OZ. JAR	1 1	A	A	A	H	A	TA	A		n
SOIL SLEEVE	H.	1 19			-	10	1	1		
PCB VIAL	+	+								
PLASTIC BAG	+	1	_						_	
FERROUS IRON ENCORE	_									



Chain of Custody and Cooler Receipt Form for 1008640 Page 5 of 6

LABORATORIES INC.	S	AMPLE	REC	EIPT F	ORM	Rev.	No. 12	06/24/08	Page @	< Of _		
STABORATORIES INC.									-			
Amission #: 100 8 (40 SHIPPING INFORM	ATION							4G CONT				
O DESTO Ha	nd Deliver	ry 🛭		1	Ice	Chest/2		None	: □ □(Spe	cify)		
CLab Field Service D Other D	Specify)_			١		Box □)	Oute	_ (ope			
C120 / 1010	and the same of the last of th	ALC: VICTOR IN	-		-	(harmonia)	-	-	The same of the same of		-	
Refrigerant: Ice D∕ Blue Ice □	None 🗆	01	her 🗆		nments							
Carlo Chest D	ontainers	5 D	Non	e ⊠ C	omment	ls:						Į.
Listody Seals Ice Chest □ C	tact? Yes 🗆	No D										
	l samples o	ontaine	rs intac	t? Yes (No 🗆		Descrip	tion(s) mate	h COC?	Yes [7]	No □	
Il samples received? Yes □ No□ Al	issivity: O			50	il		10- 33-0	-2	Date(Ti	me (0.	<u>-21-1</u> 0	2211
COC Received Em	issivity: 💆	.98	Contai	ner: <u>S.W</u>	O VE TH	ermomete	erio: <u>109</u>	5_	١.			- 11
☑YES □ NO Ter	nperature:	A C	1,1	°C	/ C	1.3	°C		Analys	t init _	S CO	
7		-	-	-	-	SAMPLE N		-				
	7		T	3	μ	1 5	16	7	18		9	10
SAMPLE CONTAINERS	(1	12_	+	-						-	-	
TGENERAL MINERALI GENERAL PHYSICAL								-		+		
TPE UNPRESERVED								-				
OT INORGANIC CHEMICAL METALS										-		
PTINORGANIC CHEMICAL METALS								-	+	+		
PTCYANIDE							-		+	_		
PT NITROGEN FORMS PT TOTAL SULFIDE							-	-	+	_		
200. NITRATE / NITRITE								-	-			
PT TOTAL ORGANIC CARBON							-					
PTTOX		-	-									
PT CHEMICAL OXYGEN DEMAND												
P1A PHENOLICS		-		-						-		
40ml VOA VIAL TRAVEL BLANK	-		1	1 3	4	- 4	1	1 1	3		- 1	()
40ml VOA VIAL	<u> </u>	1							-	-		-
OT EPA 413.1, 413.2, 418.1												
PT ODOR						-			-	-		-
RADIOLOGICAL									-	-		
BACTERIOLOGICAL 40 ml VOA VLAL- 504						+			-			
QT EPA 508/608/8080		_	-				-	-	_			
QT EPA 515.1/8150		-	-			-	+	-	1			
OT EPA 525		+	-+			-	-					
QT EPA 525 TRAVEL BLANK					-		-					
100ml EPA 547					-	-						
100ml EPA 531.1		+			-							
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QT EPA 8015M	-	_										-
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8 OZ. JAR	1							1		<u>_</u>		N
32 OZ-JAR	T B		A	A	H	H	t	7 X		9		178
SOIL SLEEVE						-			-			
PLASTIC BAG					-				_			
FERROUS IRON					+	-	-					
ENCORE												



Chain of Custody and Cooler Receipt Form for 1008640 Page 6 of 6

LABORATORIES INC.		SAMPLE	RECEIPT	FL.	Rev.	No. 12	16/24/08	Page	30f_3	
ubmission#: 1008640										
SHIPPING INFOR	MATION					SHIPPIN				N.
ederal Everess D. IIPS D. H	land Deliv	ery 🗆	- 1	lc	e Chest Z		None	e ⊔ r □ (Spec	ify)	. 1
C Lab Field Service Other	(Specify)		- 1		Box □	J	Outes	, (C)		
	-	-			-	and the same of the same	-			
Refrigerant: Ice 🗗 Blue Ice 🗆	None	Oth		omments						
ustody Seals Ice Chest	Containe		None 🖫	Commen	ts:					N.
Intact? Yes No	Intact? Yes	□ No □								
Il samples received? Yes No D	All samples	containers	s intact? Ye	sø∕No□		Descripti	on(s) mate	ch COC? Y	es No 🗆	
Samples to do to				4-11			2	Date/Tim	ie <u>0-21-1</u> 0	2211
			ontainer:				2_			11
ØYES □NO Te	mperature	rature: A 3.9 °C / C Ӌ 小 °C Analyst Init しゃい								
	7	Maria Company	-				and the same of th			
A LANGUE CONTAINEDS		T .	3		SAMPLE N	6	1.7	8	9	7619
SAMPLE CONTAINERS	91	2	<u> </u>							
T GENERAL MINERALI GENERAL PHYSICAL	1								-	
T PE UNPRESERVED	1									
T INORGANIC CHEMICAL METALS	1									
T INORGANIC CHEMICAL METALS	1								-	
T CYANIDE										
T NITROGEN FORMS	1							-	-	
T TOTAL SULFIDE										
PT TOTAL ORGANIC CARBON										+
PT TOX								+	+	+
PT CHEMICAL OXYGEN DEMAND					-					
PIA PHENOLICS			-							
40ml VOA VIAL TRAVEL BLANK	_			-	-	-	1 .	, ,	1 (
40ml VOA VIAL	+		-	4		*	1	1		
QT EPA 413.1, 413.2, 418.1		-	-	+			+			
PT ODOR	-	-		-	+	-	+			
RADIOLOGICAL	-	-	+							
BACTERIOLOGICAL	+-									
40 ml VOA VIAL-504	+	+	+							
QT EPA 508/608/8080	+-	_	-							
QT EPA 515.1/8150	+-									-
QT EPA 525	_									
QT EPA \$25 TRAVEL BLANK	_									
100ml EPA 547	_									-
100ml EPA 531.1										+
OT EPA 548										
OT EPA 549										
OT EPA 632 OT EPA 8015M										-
OT AMBER						-	-			-
S OZ. JAR										_
32 OZ. JAR					-		 		T A	A
SOIL SLEEVE							- A			/7
PCB YIAL	_	_								-
PLASTIC BAG	_				-		-	_		_
FERROUS IRON			-			_				
ENCORE										



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 06/21/2010 22:00 COC Number: Receive Date: 1156 06/17/2010 11:50 **Project Number:** Sampling Date: Sampling Location: Sample Depth: Sampling Point: SB-14-8 Solids Sample Matrix: Sampled By: **DECR** Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID:

 1008640-02
 COC Number:
 -- Receive Date:
 06/21/2010 22:00

 Project Number:
 1156
 Sampling Date:
 06/17/2010 11:50

 Project Number:
 1156
 Sampling Date:
 06/17/201

 Sampling Location:
 -- Sample Depth:
 --

Sampling Point:SB-14-10Sample Matrix:SolidsSampled By:DECRDelivery Work Order:

Global ID:

Location ID (FieldPoint): SB-14

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

1008640-03 COC Number: --- Receive Date: 06/21/2010 22:00

 Project Number:
 1156
 Sampling Date:
 06/17/2010 11:54

Sampling Location: --- Sample Depth: --Sampling Point: SB-14-15 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:

1008640-04 COC Number: --- Receive Date: 06/21/2010 22:00

 Project Number:
 1156
 Sampling Date:
 06/17/2010 12:01

Sampling Location: --- Sample Depth: --Sampling Point: SB-14-20 Sample Matrix: Solids

Sampled By: DECR Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-14

Matrix: SO

Sample QC Type (SACode): CS



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 06/21/2010 22:00 **COC Number:** Receive Date: 1156 06/17/2010 12:07 **Project Number:** Sampling Date: Sampling Location: Sample Depth: Sampling Point: SB-14-26 Solids Sample Matrix: Sampled By: **DECR** Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID: 1008640-06 COC Number: Receive Date: 06/21/2010 22:00 **Project Number:** Sampling Date: 06/17/2010 12:07 1156 Sampling Location: Sample Depth: SB-14-30 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID: 1008640-07 **COC Number:** 06/21/2010 22:00 Receive Date: 06/17/2010 12:16 **Project Number:** 1156 Sampling Date: Sampling Location: Sample Depth: SB-14-35 Sampling Point: Sample Matrix: Solids **DECR** Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID: 1008640-08 **COC Number:** Receive Date: 06/21/2010 22:00 **Project Number:** 1156 Sampling Date: 06/17/2010 12:22 Sampling Location: Sample Depth: SB-14-40 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS



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 06/21/2010 22:00 **COC Number:** Receive Date: 1156 06/17/2010 12:28 **Project Number:** Sampling Date: Sampling Location: Sample Depth: Sampling Point: SB-14-45 Solids Sample Matrix: 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:** Sampling Date: 06/17/2010 12:28 1156 Sampling Location: Sample Depth: SB-14-50 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-14 Matrix: SO Sample QC Type (SACode): CS Cooler ID: 1008640-11 **COC Number:** 06/21/2010 22:00 Receive Date: 06/18/2010 08:45 **Project Number:** 1156 Sampling Date: Sampling Location: Sample Depth: SB-13-6 Sampling Point: 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: SB-15-5 Solids Sampling Point: Sample Matrix: DECR Sampled By: Delivery Work Order: Global ID: Location ID (FieldPoint): SB-15 Matrix: SO Sample QC Type (SACode): CS



1008640-16

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 06/21/2010 22:00 **COC Number:** Receive Date: 1156 06/17/2010 02:01 **Project Number:** Sampling Date: Sampling Location: Sample Depth: Sampling Point: SB-15-10 Solids Sample Matrix: Sampled By: **DECR** Delivery Work Order: Global ID: Location ID (FieldPoint): SB-15 Matrix: SO Sample QC Type (SACode): CS

1008640-14 **COC Number:** Receive Date:

Project Number: Sampling Date: 06/17/2010 02:04 1156 Sampling Location: Sample Depth: SB-15-15 Solids Sampling Point: Sample Matrix: **DECR** Sampled By: Delivery Work Order:

Global ID:

Cooler ID:

Location ID (FieldPoint): SB-15

06/21/2010 22:00

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

1008640-15 **COC Number:** 06/21/2010 22:00 Receive Date:

06/17/2010 02:10 **Project Number:** 1156 Sampling Date: Sampling Location: Sample Depth:

SB-15-21.5 Sampling Point: 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:

COC Number: Receive Date: 06/21/2010 22:00 **Project Number:** 1156 Sampling Date: 06/17/2010 02:18

Sampling Location: Sample Depth: SB-15-26.5 Solids Sampling Point: Sample Matrix:

DECR Sampled By: Delivery Work Order:

Global ID: Location ID (FieldPoint): SB-15

Matrix: SO

Sample QC Type (SACode): CS



Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Client Sample Information Laboratory 1008640-17 06/21/2010 22:00 COC Number: Receive Date: Sampling Date: **Project Number:** 1156 06/17/2010 02:18 Sampling Location: Sample Depth: Sampling Point: SB-15-30 Sample Matrix: Solids Sampled By: **DECR** Delivery Work Order: Global ID: Location ID (FieldPoint): SB-15 Matrix: SO Sample QC Type (SACode): CS

1008640-18 COC Number: ---

Project Number: 1156
Sampling Location: --Sampling Point: SB-15

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:

Cooler 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

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 1	008640-01	Client Sampl	e Name:	1156, SB-14-8, 6/17	7/2010 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 (Suri	rogate)	117	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Sur	rogate)	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 (Sur	rrogate)	107	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rrogate)	106	%	74 - 121 (LCL - UCL)	EPA-8260			2
	- 3/		/0	:=: (=== 302)				

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008640-01	Client Sampl	e Name:	1156, SB-14-8, 6/17	7/2010 11:50:00AM	1		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	91.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	112	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

1008640-02	Client Sample	e Name:	1156, SB-14-10, 6/1	7/2010 11:50:00A	Л		
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
	0.28	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	1.7	mg/kg	0.25	EPA-8260	ND	A01	2
	0.033	mg/kg	0.0050	EPA-8260	ND		1
	0.21	mg/kg	0.0050	EPA-8260	ND		1
	7.9	mg/kg	0.50	EPA-8260	ND	A01	2
	ND	mg/kg	0.0050	EPA-8260	ND		1
	0.093	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
Surrogate)	90.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Surrogate)	102	%	70 - 121 (LCL - UCL)	EPA-8260			2
	108	%	81 - 117 (LCL - UCL)	EPA-8260			1
	97.9	%	81 - 117 (LCL - UCL)	EPA-8260			2
(Surrogate)	99.2	%	74 - 121 (LCL - UCL)	EPA-8260			1
(Surrogate)	104	%	74 - 121 (LCL - UCL)	EPA-8260			2
	Surrogate) Surrogate)	Result 0.28 ND ND ND 1.7 0.033 0.21 7.9 ND ND ND ND ND ND ND N	Result Units 0.28 mg/kg ND mg/kg ND mg/kg 1.7 mg/kg 0.033 mg/kg 0.21 mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg Surrogate) 90.7 % Surrogate) 102 % 97.9 % Surrogate) 99.2 %	Result Units PQL 0.28 mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 1.7 mg/kg 0.25 0.033 mg/kg 0.0050 7.9 mg/kg 0.50 ND mg/kg 0.050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 Surrogate) 90.7 % 70 - 121 (LCL - UCL) Surrogate) 102 % 70 - 121 (LCL - UCL) 97.9 % 81 - 117 (LCL - UCL) Surrogate) 99.2 % 74 - 121 (LCL - UCL)	Result Units PQL Method 0.28 mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 1.7 mg/kg 0.25 EPA-8260 0.033 mg/kg 0.0050 EPA-8260 0.21 mg/kg 0.050 EPA-8260 ND mg/kg 0.050 EPA-8260 ND mg/kg 0.050 EPA-8260 ND mg/kg 0.050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 1.0 EPA-8260 ND mg/kg 0.0050 EPA-8260 Surrogate) 90.7 % 70 - 121 (LCL - UCL) EPA-8260 Surrogate) 102 % 70 - 121 (LCL - UCL) EPA-8260 Surrogate) 97.9 % 81 - 117 (LCL - UCL) EPA-8260 Surrogate) 99.2 % 74 - 121 (LCL - UCL) EPA-826	Result Units PQL Method Bias 0.28 mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND 1.7 mg/kg 0.050 EPA-8260 ND 0.033 mg/kg 0.0050 EPA-8260 ND 7.9 mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND Surrogate) 90.7 % 70 - 121 (LCL - UCL) EPA-8260 Surrogate) 102 % 70 - 121 (LCL - UCL) EPA-8260 <	Result Units PQL Method Bias Quals

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008640-02	Client Sampl	e Name:	e: 1156, SB-14-10, 6/17/2010 11:50:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	83.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	109	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 1	008640-03	Client Sample	e Name:	1156, SB-14-15, 6/1	7/2010 11:54:00	AM		
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 (Sur	rogate)	95.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sui	rogate)	97.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8260	06/24/10	06/24/10 09:45	ADC	MS-V2	1	BTF1700			

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 Sampl	e Name:	1156, SB-14-15, 6/1	17/2010 11:54:00)AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	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			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

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

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

BCL Sample ID:	1008640-04	Client Sample	e Name:	1156, SB-14-20, 6/1	17/2010 12:01:00	PM		
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 (Su	rrogate)	93.8	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		97.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Su	ırrogate)	96.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8260	06/24/10	06/24/10 10:11	ADC	MS-V2	1	BTF1700			

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008640-04	Client Sampl	e Name:	1156, SB-14-20, 6/1	17/2010 12:01:00)PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	89.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	95.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 10	008640-05	Client Sample	e Name:	1156, SB-14-26, 6/1	7/2010 12:07:00	PM		
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 (Surro	ogate)	90.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.1	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	95.2	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8260	06/24/10	06/24/10 10:37	ADC	MS-V2	1	BTF1700			

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008640-05	Client Sampl	e Name:	1156, SB-14-26, 6/1	17/2010 12:07:00	PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (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 (Surroga	te)	87.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	96.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 100	8640-06 Client S	Sample Name:	1156, SB-14-30, 6	6/17/2010 12:07:00	PM		
Constituent	Resu	ılt 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 (Surroga	ate) 114	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	98.1	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrog	gate) 98.8	8 %	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC		
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-8260	06/24/10	06/25/10 06:07	ADC	MS-V2	1	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:	1008640-06	Client Sampl	e Name:	1156, SB-14-30, 6/1	17/2010 12:07:00)PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	83.3	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	96.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 100	8640-07 Client S	ample Name:	1156, SB-14-35, (6/17/2010 12:16:00	PM		
Constituent	Resu	ılt 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 (Surrog	ate) 91.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	96.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrog	gate) 100	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC		
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	EPA-8260	06/24/10	06/24/10 11:28	ADC	MS-V2	1	BTF1700		

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008640-07	Client Sampl	e Name:	1156, SB-14-35, 6/1	1156, SB-14-35, 6/17/2010 12:16:00PM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	84.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	96.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run	QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 100	08640-08 Clien	t Sample Name:	1156, SB-14	-40, 6/17/2010 12:22:0	00PM		
Constituent	Re	esult Units	s PQL	Method	MB Bias	Lab Quals	Run #
Benzene	I	ND mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	1	ND mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	ı	ND mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	0.	.014 mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	I	ND mg/kg	0.0050	EPA-8260	ND		1
Toluene	I	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	ı	ND mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	I	ND mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	I	ND mg/kg	0.0050	EPA-8260	ND		1
Ethanol	I	ND mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	- 1	ND mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrog	gate) 9	2.6 %	70 - 121 (LCL -	UCL) EPA-8260			1
Toluene-d8 (Surrogate)	9	6.9 %	81 - 117 (LCL -	UCL) EPA-8260			1
4-Bromofluorobenzene (Surro	gate) 9	5.8 %	74 - 121 (LCL -	UCL) EPA-8260			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/24/10 11:54	ADC	MS-V2	1	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

BCL Sample ID:	1008640-08	Client Sampl	e Name:	1156, SB-14-40, 6/1	1156, SB-14-40, 6/17/2010 12:22:00PM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	86.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	90.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 100	8640-09 Client	Sample Name:	1156, SB-14-45,	6/17/2010 12:28:00	PM		
Constituent	Res	ult Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	0.0	18 mg/kg	0.010	EPA-8260	ND	A01	1
1,2-Dibromoethane	NI	O mg/kg	0.010	EPA-8260	ND	A01	1
1,2-Dichloroethane	NI	D mg/kg	0.010	EPA-8260	ND	A01	1
Ethylbenzene	0.2	7 mg/kg	0.010	EPA-8260	ND	A01	1
Methyl t-butyl ether	NI	D mg/kg	0.010	EPA-8260	ND	A01	1
Toluene	0.0	12 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	NI) mg/kg	0.010	EPA-8260	ND	A01	1
t-Butyl alcohol	NI	D mg/kg	0.10	EPA-8260	ND	A01	1
Diisopropyl ether	NI) mg/kg	0.010	EPA-8260	ND	A01	1
Ethanol	NI) mg/kg	2.0	EPA-8260	ND	A01	1
Ethyl t-butyl ether	NI) mg/kg	0.010	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrog	ate) 94	9 %	70 - 121 (LCL - UCL) EPA-8260			1
Toluene-d8 (Surrogate)	10	1 %	81 - 117 (LCL - UCL) EPA-8260			1
4-Bromofluorobenzene (Surrog	gate) 99	8 %	74 - 121 (LCL - UCL) EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/25/10 16:41	JSK	MS-V3	2	BTF1746	

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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

BCL Sample ID:	1008640-09	Client Sampl	e Name:	: 1156, SB-14-45, 6/17/2010 12:28:00PM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	te)	86.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

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

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

BCL Sample ID: 10	008640-10	Client Sampl	e Name:	1156, SB-14-50, 6/1	17/2010 12:28:00	PM		
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 (Surro	ogate)	107	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	99.1	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/23/10	06/24/10 11:07	JSK	MS-V3	1	BTF1746	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008640-10	Client Sampl	e Name:	1156, SB-14-50, 6/	1156, SB-14-50, 6/17/2010 12:28:00PM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	92.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	77.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run		QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 10086	40-11 Clie	ent Sample	Name:	1156, SB-13-6, 6/18	8/2010 8:45:00AM			
Constituent	· · · · · · · · · · · · · · · · · · ·	Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Benzene	•	ND	mg/kg	0.50	EPA-8260	ND 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	e)	114	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrogate	e)	108	%	74 - 121 (LCL - UCL)	EPA-8260			2

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 1008640-11	Client Sample	Name:	1156, SB-13-6, 6/18	3/2010 8:45:00A	M		
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				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	



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	e Name:	1156, SB-13-	6, 6/18/2010 8:45:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#	
Oil and Grease		140	mg/kg	100	EPA-1664HEM	ND		1	

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-1664HEM	06/30/10	06/30/10 14:30	JAK	MAN-SV	2	BTG0073	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 100	08640-12 Cli	ent Sample N	lame:	1156, SB-15-5, 6/17	/2010 2:01:00AM			
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 (Surro	gate)	97.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		103	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	gate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/23/10	06/24/10 11:33	JSK	MS-V3	1	BTF1746	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008640-12	Client Sampl	e Name:	1156, SB-15-5, 6/17	7/2010 2:01:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Organ	nics (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 (Surrogat	te)	81.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	93.5	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

1008640-13	Client Sampl	e Name:	1156, SB-15-10, 6/1	7/2010 2:01:00	ΔM		
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.010	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
rogate)	99.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
	100	%	81 - 117 (LCL - UCL)	EPA-8260			1
rrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1
	rrogate)	Result ND ND ND ND ND ND ND ND ND ND ND ND ND	Result Units ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg Trogate) 99.1 % 100 %	Result Units PQL ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 1.0 ND mg/kg 0.0050 Trogate) 99.1 % 70 - 121 (LCL - UCL) 100 % 81 - 117 (LCL - UCL)	Result Units PQL Method ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.010 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 1.0 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 PO 1.0 EPA-8260 PO 1.0 EPA-8260 PO 1.0 EPA-8260 PO 1.0 EPA-8260 PO <td>Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 1.0 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.00</td> <td> No</td>	Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 1.0 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.00	No

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/23/10	06/24/10 11:59	JSK	MS-V3	1	BTF1746	

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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

BCL Sample ID:	1008640-13	Client Sampl	e Name:	1156, SB-15-10, 6/1	1156, SB-15-10, 6/17/2010 2:01:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	82.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	97.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 10	08640-14	Client Sample	e Name:	1156, SB-15-15, 6/1	17/2010 2:04:00	AM		
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 (Surro	ogate)	108	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		100	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run QC							
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/25/10 17:07	JSK	MS-V3	2	BTF1746	

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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

BCL Sample ID:	1008640-14	Client Sampl	e Name:	1156, SB-15-15, 6/1	17/2010 2:04:00	AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	75.9	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	92.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run				
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 100	08640-15 Clie	ent Sample N	lame:	1156, SB-15-21.5, 6	/17/2010 2:10:0	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 (Surrog	gate)	108	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		98.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	gate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

			QC					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/24/10 18:07	ADC	MS-V2	1	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

BCL Sample ID:	1008640-15	Client Sampl	e Name:	1156, SB-15-21.5, 6	6/17/2010 2:10:0	00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	84.7	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

1008640-16	Client Sampl	e Name:	1156, SB-15-26.5, 6	6/17/2010 2:18:0	0AM		
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.010	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
rogate)	95.6	%	70 - 121 (LCL - UCL)	EPA-8260			1
	97.2	%	81 - 117 (LCL - UCL)	EPA-8260			1
rrogate)	97.4	%	74 - 121 (LCL - UCL)	EPA-8260			1
	rogate)	Result ND ND ND ND ND ND ND N	Result Units ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg Togate 95.6 % 97.2 %	Result Units PQL ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 1.0 ND mg/kg 0.0050 rogate) 95.6 % 70 - 121 (LCL - UCL) 97.2 % 81 - 117 (LCL - UCL)	Result Units PQL Method ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.010 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 1.0 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 POS 70 - 121 (LCL - UCL) EPA-8260 POS 70 - 121 (LCL - UCL) EPA-8260	Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 1.0 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0	Result Units PQL Method Bias Bias Dquals ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg

			QC					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/24/10 18:33	ADC	MS-V2	1	BTF1700	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008640-16	Client Sampl	e Name:	1156, SB-15-26.5, 6	6/17/2010 2:18:0	DOAM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	te)	74.4	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	92.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

1008640-17	Client Sampl	e Name:	1156, SB-15-30, 6/1	1156, SB-15-30, 6/17/2010 2:18:00AM			
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.010	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	0.050	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
	ND	mg/kg	1.0	EPA-8260	ND		1
	ND	mg/kg	0.0050	EPA-8260	ND		1
rrogate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
	97.0	%	81 - 117 (LCL - UCL)	EPA-8260			1
ırrogate)	98.2	%	74 - 121 (LCL - UCL)	EPA-8260			1
	rrogate)	Result ND ND ND ND ND ND ND ND ND ND ND ND ND	Result Units ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg Trogate) 100 % 97.0 %	Result Units PQL ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 ND mg/kg 0.0050 nrogate) 100 % 70 - 121 (LCL - UCL) 97.0 % 81 - 117 (LCL - UCL)	Result Units PQL Method ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 1.0 EPA-8260 ND mg/kg 0.0050 EPA-8260 ND mg/kg 0.0050 EPA-8260 PO 70 - 121 (LCL - UCL) EPA-8260 PO 97.0 % 81 - 117 (LCL - UCL) EPA-8260	Result Units PQL Method Bias ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.0050 EPA-8260 ND ND mg/kg 0.	No

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/24/10 18:58	ADC	MS-V2	1	BTF1700	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008640-17	Client Sampl	e Name:	1156, SB-15-30, 6/17/2010 2:18:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Organ	nics (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 (Surroga	te)	98.5	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	93.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

BCL Sample ID: 100	8640-18 Client	Sample Name:	1156, SB-15-35,	6/17/2010 2:24:00	AM		
Constituent	Res	ult Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	NI) mg/kg	0.0050	EPA-8260	ND		1
1,2-Dibromoethane	NI) mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane	NI) mg/kg	0.0050	EPA-8260	ND		1
Ethylbenzene	NI) mg/kg	0.0050	EPA-8260	ND		1
Methyl t-butyl ether	NI) mg/kg	0.0050	EPA-8260	ND		1
Toluene	NI) mg/kg	0.0050	EPA-8260	ND		1
Total Xylenes	NI) mg/kg	0.010	EPA-8260	ND		1
t-Amyl Methyl ether	NI) mg/kg	0.0050	EPA-8260	ND		1
t-Butyl alcohol	NI) mg/kg	0.050	EPA-8260	ND		1
Diisopropyl ether	NI) mg/kg	0.0050	EPA-8260	ND		1
Ethanol	NI) mg/kg	1.0	EPA-8260	ND		1
Ethyl t-butyl ether	NI) mg/kg	0.0050	EPA-8260	ND		1
1,2-Dichloroethane-d4 (Surrog	ate) 10	8 %	70 - 121 (LCL - UCL) EPA-8260			1
Toluene-d8 (Surrogate)	98.	8 %	81 - 117 (LCL - UCL) EPA-8260			1
4-Bromofluorobenzene (Surrog	gate) 99.	0 %	74 - 121 (LCL - UCL) EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/24/10 19:24	ADC	MS-V2	1	BTF1700	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

BCL Sample ID:	1008640-18	Client Sampl	e Name:	1156, SB-15-35, 6/1	17/2010 2:24:00	AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	te)	84.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	91.5	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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

Delta Environmental Consultants, Inc.

Reported: 07/07/2010 15:49
11050 White Rock Rd, Suite 110

Project: 1156

Rancho Cordova, CA 95670 Project Number: 4513569998
Project Manager: Jim Barnard

BCL Sample ID: 10	08640-19	Client Sample	e Name:	1156, SB-15-40, 6/1	7/2010 2:40:00	AM		
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 (Surro	gate)	100	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		96.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surre	ogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/24/10 19:50	ADC	MS-V2	1	BTF1700	

Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

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

BCL Sample ID:	1008640-19	Client Sampl	e Name:	1156, SB-15-40, 6/1				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	te)	97.0	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	91.2	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	



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
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)	



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

								Control L	imits	
O and the seat	00.0	-	D !!	Spike	11.24.	Percent	DDD	Percent	DDD	Lab Occale
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		

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

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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	



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
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	5 (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)	



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

								Control L	<u>imits</u>	
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
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		

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

								Cont	rol Limits	
	Source	Source		Spike			Percent		Percent	Lab
Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
Used	client sample:	Y - Descr	iption: SB-1	4-8, 06/17/20	010 11:50					
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	
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	
Used	client sample:	N								
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	
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	
Used	client sample:	N								
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	
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	
	Used (MS MSD MSD MSD MSD MSD MSD MSD MSD MSD M	Type Sample ID Used client sample: MS 1008640-01 MSD 1008640-01 MSD 1008640-01 Used client sample: MS 1007897-50 MSD 1007897-50 MSD 1007897-50 Used client sample: MS 1007897-50 MSD 1007897-50 MSD 1007897-51 MSD 1007897-51 MSD 1007897-51	Type Sample ID Result Used client sample: Y - Descr MS 1008640-01 1.8810 MSD 1008640-01 ND MSD 1008640-01 ND MSD 1008640-01 ND MSD 1007897-50 ND MSD 1007897-50 ND MSD 1007897-50 ND MSD 1007897-50 ND MSD 1007897-51 ND MSD 1007897-51 ND MSD 1007897-51 ND MS 1007897-51 ND	Type Sample ID Result Result Used client sample: Y - Description: SB-1 MS 1008640-01 1.8810 14.615 MSD 1008640-01 ND 0.63142 MSD 1008640-01 ND 0.59490 Used client sample: MS 1007897-50 ND 4.6767 MSD 1007897-50 ND 0.038700 MSD 1007897-50 ND 0.038800 Used client sample: N MS 1007897-51 ND 5.2400 MSD 1007897-51 ND 4.9429 MS 1007897-51 ND 0.038100	Type Sample ID Result Result Added Used client sample: Y - Description: SB-14-8, 06/17/20 MS 1008640-01 1.8810 14.615 16.949 MSD 1008640-01 ND 0.63142 0.67797 MSD 1008640-01 ND 0.59490 0.65789 Used client sample: N MS 1007897-50 ND 4.6767 5.0000 MSD 1007897-50 ND 0.038700 0.040000 MSD 1007897-50 ND 0.038700 0.040000 Used client sample: N MS 1007897-51 ND 5.2400 5.0000 MSD 1007897-51 ND 4.9429 5.0000 MS 1007897-51 ND 0.038100 0.040000	Type Sample ID Result Result Added Units Used client sample: Y - Description: SB-14-8, 06/17/2010 11:50 MS 1008640-01 1.8810 14.615 16.949 mg/kg MSD 1008640-01 ND 0.63142 0.67797 mg/kg MSD 1008640-01 ND 0.59490 0.65789 mg/kg MSD 1007897-50 ND 4.6767 5.0000 mg/kg MSD 1007897-50 ND 4.2845 5.0000 mg/kg MSD 1007897-50 ND 0.038700 0.040000 mg/kg MSD 1007897-50 ND 0.038800 0.040000 mg/kg Used client sample: N MS 1007897-51 ND 5.2400 5.0000 mg/kg MSD 1007897-51 ND 4.9429 5.0000 mg/kg MS 1007897-51 ND 0.038100 0.040000 mg/kg	Type Sample ID Result Added Units RPD Used client sample: Y - Description: SB-14-8, 06/17/2010 11:50 MS 1008640-01 1.8810 14.615 16.949 mg/kg MSD 1008640-01 1.8810 15.913 16.447 mg/kg 12.7 MS 1008640-01 ND 0.63142 0.67797 mg/kg Mg/kg MSD 1008640-01 ND 0.59490 0.65789 mg/kg MSD 1007897-50 ND 4.6767 5.0000 mg/kg 8.8 MS 1007897-50 ND 4.2845 5.0000 mg/kg 8.8 MS 1007897-50 ND 0.038700 0.040000 mg/kg 9/kg MSD 1007897-50 ND 0.038800 0.040000 mg/kg 5.8 MS 1007897-51 ND 5.2400 5.0000 mg/kg 5.8 MS 1007897-51 ND 0.038100 0.040000 mg/kg 5.8	Type Sample ID Result Added Units RPD Recovery Used client sample: Y - Description: SB-14-8, 06/17/2010 11:50 MS 1008640-01 1.8810 14.615 16.949 mg/kg 12.7 85.3 MS 1008640-01 ND 0.63142 0.67797 mg/kg 12.7 85.3 MS 1008640-01 ND 0.63142 0.67797 mg/kg 93.1 MSD 1008640-01 ND 0.59490 0.65789 mg/kg 90.4 Used client sample: N MS 1007897-50 ND 4.6767 5.0000 mg/kg 8.8 85.7 MS 1007897-50 ND 0.038700 0.040000 mg/kg 8.8 96.8 MSD 1007897-50 ND 0.038800 0.040000 mg/kg 97.0 Used client sample: N MS 1007897-51 ND 5.2400 5.0000 mg/kg 99.9 MS 1007897-51	Type Source Sample ID Result Result Added Units RPD Percent Recovery RPD Used client sample: Y - Description: SB-14-8, 06/17/2010 11:50 MS 1008640-01 1.8810 14.615 16.949 mg/kg 12.7 85.3 30 MS 1008640-01 1.8810 15.913 16.447 mg/kg 12.7 85.3 30 MS 1008640-01 ND 0.63142 0.67797 mg/kg 93.1	Type Sample ID Result Added Units RPD Recovery RPD Recovery Used client sample: Y - Description: SB-14-8, 06/17/2010 11:50 3 40 - 137 MS 1008640-01 1.8810 14.615 16.949 mg/kg 12.7 85.3 30 40 - 137 MSD 1008640-01 ND 0.63142 0.67797 mg/kg 12.7 85.3 30 40 - 137 MSD 1008640-01 ND 0.63142 0.67797 mg/kg 93.1 20 - 145 MSD 1008640-01 ND 0.59490 0.65789 mg/kg 93.1 20 - 145 MSD 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 MSD 1007897-50 ND 0.038700 0.040000 mg/kg 97.0 70 - 130 MSD 10078



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		



Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Laboratory Control Sample

								Control L	<u>imits</u>	
				Spike		Percent		Percent		
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
QC Batch ID: BTG0073										
Oil and Grease	BTG0073-BS1	LCS	592.00	743.00	mg/kg	79.7		59 - 117		



Reported: 07/07/2010 15:49

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTG0073	Used	client sample:	Y - Descr	iption: SB-1	8-15, 06/15/2	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	



Reported: 07/07/2010 15:49

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

PQL's and MDL's are raised due to sample dilution. A01

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

Molly Meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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	BC
Environmental Testing Laboratory Since 1	Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody and Cooler Receipt Form for 1008625

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James Barnard			COF DELINER	WBLE TO #	RP or De	signes):							E NO.:		- 1	EMIL			10000000	USE OWLY		
TELEPHONE: FAX: (916) 503-1279 (916) 638-8385	jbarnard@deltaenv.com		James Ba	arnard (l	Delta)							916	-503-1	279		ctor.com	Graysoni ecephilis	gs.com	1	008	625	
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Alan Buehler/Caitlin Morgan	C101156		1								RE	QUES	TED A	NALY	SES							
TURNAROUND TIME [CALENDAR DAYS]:							T					Т	П	Т	П		\top					
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SPECIAL INSTRUCTIONS OR NOTES:	CHECK BOX IF EDD IS NEED	EO 🗸	1 .	١,,																	Container/Preservative or PID Readings	
Please CC Alan Buehler (abuehler@	daltaanu com) and		꽃	8																1	or Laboratory Notes	
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Caitlin Morgan (cmorgan@deltaenv.	.com) on reports		тнРа, тРни	8260B - BTEX, 8 Oxys	8015M - TPHmo	T0G									П							
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Chain of Custody and Cooler Receipt Form for 1008625 Page 2 of 2

C LABORATORIES INC.		SAMPLE	RECEIPT	Fu.	Rev	, No. 12	06/24/08	Page 2	01_/	
Submission #: 1008625										
SHIPPING INFO	PREATION					SHIPPIN	IG CONT	AINER		
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Refrigerant: Ice 🖟 Blue Ice I	None	□ Othe	er 🗆 C	omment	s:					
Custody Seals Ice Chest	Containe	rs 🗆	None 🖟	Comme	nts:					
Intact? Yes D No.G	Intact? Yes									
No. 20 Mars	Atteamples	containers	intact? Ye	s of Not	3	Descripti	ion(s) mate	h COC? Y	es (Z No (- N
All samples received? Yes No D	All samples	Containers	2	1611				1	7	2211
COC Received	Emissivity: _	<u>0,98</u> co	ntainer: ঽ	LEEVE T	hermome	ter ID: \\&	3	1	e <u>0-21-1</u>	
	Temperature:							Analyst I	nit シャンい	0
	remperature	, , , , , , , , , , , , , , , , , , ,	-				-			
						NUMBERS		Тв	3	10
SAMPLE CONTAINERS	1	2	3	4	6	6	7	<u> </u>		1
OT GENERAL MINERAL/ GENERAL PHYSICA	AL	-								
PT PE UNPRESERVED	-	-								
OT INORGANIC CHEMICAL METALS	_									
PT INORGANIC CHEMICAL METALS	-	-								
PT CYANIDE	-	-			<u> </u>					
PT NITROGEN FORMS		-								
PT TOTAL SULFIDE										
202. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON									-	
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
Pra PHENOLICS 40ml VOA VIAL TRAVEL BLANK									-	
40ml VOA VIAL	A 16	A 161	A 16			1 1	1 1	3 (1	1 ()
QT EPA 413.1, 413.2, 418.1							-	-	+	
PT ODOR					-	-		-	-	+
RADIOLOGICAL					-					+
BACTERIOLOGICAL			ļ						-	
40 ml VOA VIAL 504			· ·		-		+	-	-	
OT EPA 508/608/8080					-		-	-	 	
QT EPA 515.1/8159			-	-	-	-			+	-
QT EPA 525		_		-	-	-	-	-	+	
QT EPA 525 TRAVEL BLANK			+	-	-	-				
108ml EPA 547		-		-	-		_	-		
100ml EPA 531.1	_	-		+	-		+		-	
QT EPA 548		-	-		+	-	-			_
QT EPA 549			+	+	-		_	-		
QT EPA 632			-	-	-		+			
QT EPA 8015M	B	B	13		+	-				
QT AMBER	15	95	10	+	-	-				
8 OZ. JAR	-	-	-	+						
32 OZ JAR				T A	-	-	_			
SOIL SLEEVE	_			+	-				1	
PCB VIAI.		-	_	_	_					
PLASTIC BAG		_	+		-					
FERROUS IRON	_	_		1						
ENCORE										



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:

> 1156 **Project Number:** Sampling Location:

Sampling Point: SB-15-24 Sampled By: **DECR**

06/21/2010 22:00 **Receive Date:** 06/18/2010 08:15 Sampling Date:

Sample Depth: Water Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-15

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:

1008625-02 **COC Number:**

> **Project Number:** 1156 Sampling Location:

SB-16-25 Sampling Point: DECR Sampled By:

Receive Date: 06/21/2010 22:00 Sampling Date: 06/17/2010 08:00

Sample Depth: Water Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-16

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:

1008625-03 **COC Number:**

> **Project Number:** 1156 Sampling Location:

SB-17-19 Sampling Point: **DECR** Sampled By:

06/21/2010 22:00 Receive Date: 06/17/2010 08:15 Sampling Date:

Sample Depth: Water Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-17

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:

1008625-04 **COC Number:**

> **Project Number:** 1156 Sampling Location:

Composite Sampling Point: **DECR** Sampled By:

Receive Date: 06/21/2010 22:00 Sampling Date: 06/18/2010 10:00

Sample Depth: Solids Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): COMP

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:

Reported: 07/02/2010 14:28

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 100	8625-01 Client S	Sample Name:	1156, SB-15-24	, 6/18/2010 8:15:00 <i>A</i>	ΑM		
Constituent	Resi	ult 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	Z 1	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 (Surrog	ate) 101	%	76 - 114 (LCL - UCI	L) EPA-8260			1
Toluene-d8 (Surrogate)	96.2	2 %	88 - 110 (LCL - UCI	L) EPA-8260			1
4-Bromofluorobenzene (Surrog	gate) 99.0) %	86 - 115 (LCL - UCI	L) EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/23/10	06/24/10 10:11	KEA	MS-V10	1	BTF1624	





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 Sampl	e Name:	1156, SB-15-24, 6/1	18/2010 8:15:00	AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	ite)	81.7	%	37 - 134 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	89.4	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/02/2010 14:28

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

1008625-02	Client Sampl	e Name:	1156, SB-16-25, 6/1	1156, SB-16-25, 6/17/2010 8:00:00AM			
	Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
	140	ug/L	2.5	EPA-8260	ND	A01	1
	ND	ug/L	0.50	EPA-8260	ND		2
	23	ug/L	0.50	EPA-8260	ND		2
	14	ug/L	0.50	EPA-8260	ND		2
	460	ug/L	2.5	EPA-8260	ND	A01	1
	7.5	ug/L	0.50	EPA-8260	ND		2
	7.8	ug/L	1.0	EPA-8260	ND		2
	ND	ug/L	0.50	EPA-8260	ND		2
	730	ug/L	10	EPA-8260	ND		2
	ND	ug/L	0.50	EPA-8260	ND		2
	ND	ug/L	250	EPA-8260	ND		2
	ND	ug/L	0.50	EPA-8260	ND		2
(Surrogate)	96.1	%	76 - 114 (LCL - UCL)	EPA-8260			1
(Surrogate)	96.7	%	76 - 114 (LCL - UCL)	EPA-8260			2
)	97.9	%	88 - 110 (LCL - UCL)	EPA-8260			1
)	103	%	88 - 110 (LCL - UCL)	EPA-8260			2
(Surrogate)	98.8	%	86 - 115 (LCL - UCL)	EPA-8260			1
(Surrogate)	99.9	%	86 - 115 (LCL - UCL)	EPA-8260			2
	(Surrogate) (Surrogate)	Result	Result Units 140 ug/L ND ug/L 23 ug/L 14 ug/L 460 ug/L 7.5 ug/L ND ug/L ND ug/L ND ug/L ND ug/L ND ug/L Surrogate) 96.1 % (Surrogate) 96.7 % 97.9 % 103 % (Surrogate) 98.8 %	Result Units PQL 140 ug/L 2.5 ND ug/L 0.50 23 ug/L 0.50 14 ug/L 0.50 460 ug/L 2.5 7.5 ug/L 0.50 78 ug/L 1.0 ND ug/L 0.50 730 ug/L 10 ND ug/L 0.50 ND ug/L 0.50 ND ug/L 0.50 (Surrogate) 96.1 % 76 - 114 (LCL - UCL) (Surrogate) 96.7 % 76 - 114 (LCL - UCL) 97.9 % 88 - 110 (LCL - UCL) (Surrogate) 98.8 110 (LCL - UCL) (Surrogate) 98.8 % 86 - 115 (LCL - UCL)	Result Units PQL Method 140 ug/L 2.5 EPA-8260 ND ug/L 0.50 EPA-8260 23 ug/L 0.50 EPA-8260 14 ug/L 0.50 EPA-8260 460 ug/L 2.5 EPA-8260 7.5 ug/L 0.50 EPA-8260 ND ug/L 0.50 EPA-8260 ND ug/L 0.50 EPA-8260 ND ug/L 0.50 EPA-8260 ND ug/L 0.50 EPA-8260 ND ug/L 250 EPA-8260 ND ug/L 0.50 EPA-8260 Surrogate) 96.1 % 76 - 114 (LCL - UCL) EPA-8260 Surrogate) 96.7 % 76 - 114 (LCL - UCL) EPA-8260 103 % 88 - 110 (LCL - UCL) EPA-8260 (Surrogate) 98.8 % 86 - 115 (LCL - UCL) EPA-8260	Result Units PQL Method Bias 140 ug/L 2.5 EPA-8260 ND ND ug/L 0.50 EPA-8260 ND 23 ug/L 0.50 EPA-8260 ND 14 ug/L 0.50 EPA-8260 ND 460 ug/L 2.5 EPA-8260 ND 7.5 ug/L 0.50 EPA-8260 ND ND ug/L 1.0 EPA-8260 ND ND ug/L 0.50 EPA-8260 ND ND ug/L 0.50 EPA-8260 ND ND ug/L 0.50 EPA-8260 ND ND ug/L 250 EPA-8260 ND ND ug/L 0.50 EPA-8260 ND Surrogate) 96.1 % 76 - 114 (LCL - UCL) EPA-8260 Surrogate) 96.7 % 76 - 114 (LCL - UCL) EPA-8260 Surrogate) 98.8 - 110	Result Units PQL Method Bias Quals

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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 Sampl	e Name:	1156, SB-16-25, 6/1	17/2010 8:00:00	AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	ite)	76.2	%	37 - 134 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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.

Reported: 07/02/2010 14:28

11050 White Rock Rd, Suite 110Project:1156Rancho Cordova, CA 95670Project Number:4513569998Project Manager:Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	1008625-03	Client Sample	e Name:	1156, SB-17-19, 6/1	17/2010 8:15:00/	AM		
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 (S	urrogate)	97.9	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		98.1	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (S	Surrogate)	99.2	%	86 - 115 (LCL - UCL)	EPA-8260			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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 Sampl	e Name:	1156, SB-17-19, 6/1	1156, SB-17-19, 6/17/2010 8:15:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Gasoline Range Orga	nics (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 (Surroga	te)	80.3	%	37 - 134 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/02/2010 14:28

Project: 1156

Project Number: 4513569998
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 100	08625-04 Clier	nt Sample Name) :	1156, Composite, 6	6/18/2010 10:00:0	MA00		
Constituent	Re	esult Uni	its	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 (Surrog	ate)	105 %	,	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)	(94.8 %)	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surrog	gate) 9	98.5 %	,	74 - 121 (LCL - UCL)	EPA-8260			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/24/10	06/25/10 19:28	ADC	MS-V2	1	BTF1728	

Reported: 07/02/2010 14:28

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008625-04	Client Sampl	e Name:	1156, Composite, 6	/18/2010 10:00:0			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	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				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	



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	4 (LCL - UCL)	
Toluene-d8 (Surrogate)	BTF1624-BLK1	98.5	%	88 - 110) (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BTF1624-BLK1	103	%	86 - 115	5 (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 - 12	1 (LCL - UCL)	
Toluene-d8 (Surrogate)	BTF1728-BLK1	97.2	%	81 - 117	7 (LCL - UCL)	
4-Bromofluorobenzene (Surrogate)	BTF1728-BLK1	96.4	%	74 - 12	1 (LCL - UCL)	



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

								Control Limits			
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals	
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			

Reported: 07/02/2010 14:28

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTF1624	Used	client sample	: N								
Benzene	MS 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	



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

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	5 (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)	



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

								Control L	imits	
	00.0	-	D	Spike	11.24.	Percent	DDD	Percent	DDD	1 -1 0 -1
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		

Delta Environmental Consultants, Inc.

07/02/2010 14:28 Reported: Project: 1156 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670

Project Number: 4513569998 Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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 - Desci	ription: SB-1	4-8, 06/17/20	010 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	



Delta Environmental Consultants, Inc. Reported: 07/02/2010 14:28 11050 White Rock Rd, Suite 110

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Notes And Definitions

Rancho Cordova, CA 95670

MDL Method Detection Limit

ND Analyte Not Detected at or above the reporting limit

PQL Practical Quantitation Limit RPD Relative Percent Difference

PQL's and MDL's are raised due to sample dilution. A01 A17 Surrogate not reportable due to sample dilution. Ζ1 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

Molly Meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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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:

Reported: 08/31/2010 13:23

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

BCL Sample ID:	1008625-04	Client Sampl	e Name:	1156, Compos	site, 6/18/2010 10:00:00	MAC		
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				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	



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		



Reported: 08/31/2010 13:23

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

								Control L	<u>imits</u>	
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
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		



Reported: 08/31/2010 13:23

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTH1746	Used	client sample	: N								
Antimony	DUP	1011722-03	0.83759	ND		mg/kg			20		A02
7.11.11.10.11.9	MS	1011722-03	0.83759	51.569	100.00	mg/kg		50.7		16 - 119	7.02
	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	Q03
	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	



Reported: 08/31/2010 13:23

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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	



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

1156 RE: 1008371 BC Work Order: B082540 Invoice ID:

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

Molly Meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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	Environmental Testing Laboratory Since 1949	Laboratories, Inc.	

Chain of Custody and Cooler Receipt Form for 1008371

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ConocoPhillins Chain Of Custody Record

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Chain of Custody and Cooler Receipt Form for 1008371 Page 2 of 2

Submission #: \008371 SHIPPING INFORM dederal Express UPS H IC Lab Field Service (2) Other	and Delive	ery 🗆		Ic	e Chest		None		ify)	
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8 OZ. JAR	-	-	-	+	1	-	+	-	_	_
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PLASTIC BAG	1	-	1	+						
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Reported: 07/08/2010 14:36

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Client Sample Information Laboratory 1008371-01 06/16/2010 21:40 **COC Number: Receive Date: 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

Project Number: --
Project Number: 1156

Sampling Location: ---

Sampling Point: SB-19 Sampled By: DECR **Receive Date:** 06/16/2010 21:40 **Sampling Date:** 06/16/2010 08:15

Sample Depth: --Sample Matrix: Water
Delivery Work Order:

Global ID:

Location ID (FieldPoint): SB-19

Matrix: W

Sample QC Type (SACode): CS

Cooler ID:

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 Sampl	e Name:	1156, SB-18, 6/16/2	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 (Sui	rrogate)	99.4	%	76 - 114 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Sui	rrogate)	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 (Su	irrogate)	101	%	86 - 115 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Su	ırrogate)	107	%	86 - 115 (LCL - UCL)	EPA-8260			2

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 07/08/2010 14:36

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008371-01	Client Sampl	e Name:	1156, SB-18, 6/16/2	2010 8:00:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	102	%	37 - 134 (LCL - UCL)	Luft/FFP		V11	2
a,a,a-Trifluorotoluene	(FID Surrogate)	86.8	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

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	e Name:	1156, SB-19, 6/16/2	010 8:15:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene		8.6	ug/L	0.50	EPA-8260	ND	Z 1	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	Z 1	1
Methyl t-butyl ether		93	ug/L	0.50	EPA-8260	ND	Z 1	1
Toluene		1.2	ug/L	0.50	EPA-8260	ND	Z 1	1
Total Xylenes		9.5	ug/L	1.0	EPA-8260	ND	Z 1	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 (Sui	rrogate)	102	%	76 - 114 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		102	%	88 - 110 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Su	ırrogate)	100	%	86 - 115 (LCL - UCL)	EPA-8260			1

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	06/18/10	06/18/10 12:36	KEA	MS-V12	1	BTF1283	

Reported: 07/08/2010 14:36

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

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

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1008371-02	Client Sampl	e Name:	1156, SB-19, 6/16/2	2010 8:15:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	76.5	%	37 - 134 (LCL - UCL)	Luft/FFP		V11	2
a,a,a-Trifluorotoluene	(FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	



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)	



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

								Control L	<u>imits</u>	
		_		Spike		Percent		Percent		
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		



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

							·		Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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	



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)	



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

								Control L	imits.	
		_		Spike		Percent		Percent		
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		



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

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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

Reported: 07/08/2010 14:36

Project: 1156

Project Number: 4513569998 Project Manager: Jim Barnard

Notes And Definitions

Rancho Cordova, CA 95670

MDL Method Detection Limit

ND Analyte Not Detected at or above the reporting limit

PQL Practical Quantitation Limit RPD Relative Percent Difference

PQL's and MDL's are raised due to sample dilution. A01

V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.

Ζ1 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

Molly Meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Chain of Custody and Cooler Receipt Form for Laboratories, Inc.
Environmental Testing Laboratory Since 1949

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& James Barnas		COP DELIVERABLE TO INP OF DISEIDNESS	PHONE INC.	ε	2520 63	S USE ONLY
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Laboratories, Inc.

Chain of Custody and Cooler Receipt Form for 1011659 Environmental Testing Laboratory Since 1949

Page 2 of 4

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Chain of Custody and Cooler Receipt Form for 1011659 Page 3 of 4

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Chain of Custody and Cooler Receipt Form for 1011659 Page 4 of 4

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BACTERIOLOGICAL 10 mt YOA VIAL- 504 OT EPA 508/008/88/800 OT EPA 515 1/8150 OT EPA 515 TRAVEL BLANK 100mt EPÄ 517 100mt EPÄ 517 100mt EPÄ 518 OT EPA 531.1 OT EPA 534.0 OT EPA 534.0 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 549 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 OT EPA 540 540 540 540 540 540 540 540 540 540	PT ODOR	1				-	-	+	-	1	
### ### ##############################	RADIOLOGICAL	1				-	-	1	1		
OT EPA 508/608/808/80 OT EPA 515 US 150 OT EPA 515 US 150 OT EPA 515 TRAVEL BLANK 100mi EPA 531.1 OT EPA 548 OT EPA 549 OT EPA 612 OT EPA 612 OT EPA 602 OT EPA 801506 OT AMBER 3 OZ. JAR J1 OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	BACTERIOLOGICAL	-		-	+	-	1	1	1		
OT EPA 515 180 150 OT EPA 515 OT EPA 515 TRAVEL BLANK 100mi EPA 5147 100mi EPA 5141 OT EPA 518 OT EPA 519 OT EPA 519 OT EPA 519 OT EPA 505 M OT AMBER 3 OZ. JAR 1) OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	40 mt VOA VIAL: 504	-			-	-					
OT EPA 515 OT EPA 515 TRAVEL BLANK 100mt EPA 515 TRAVEL BLANK 100mt EPA 514 OT EPA 518 OT EPA 519 OT EPA 612 OT EPA 6012 OT AMBER 3 OZ. JAR 91 OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	OT EPA 503/608/8080	-	 	-	-	+	-				
OT EPA 515 TRAVEL BLANK 100mt EPA 514 100mt EPA 514 OT EPA 518 OT EPA 519 OT EPA 612 OT EPA 80150f OT AMBER 3 OZ. JAR 91 OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	OT EPA \$15,1/8150	-		-	-	+	-	1		1	
100mt EPA 534,1 100mt EPA 534,1 100mt EPA 534,1 100mt EPA 534,1 100mt EPA 534,1 100mt EPA 538 100mt EPA 539 10	QT EPA 525			-	-	+	18	1			
100mi EPA 534.1 OT EPA 538 OT EPA 539 OT EPA 612 OT EPA 6015M OT AMBER SOZ. JAR DI OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	OT EPA 525 TRAVEL BLANK		-	-	-	-	1	1			
OT EPA 548 OT EPA 549 OT EPA 602 OT EPA 8015M OT AMBER 3 OZ. JAR DI OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS (RON	100m1 EPX 347		-	+	-	1	1	1	1		
OT EPA 519 OT EPA 612 OT EPA 8015M OT AMBER 3 OZ. JAR PLOZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	100mi EPA 534.1	-		-	-	-	1	1			
OT EPA 801501 OT EPA 801501 OT AMBER 3 OZ. JAR 3 OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	OT EPA 548	-	-	-	-						
OT EPA 801501 OT AMBER S OZ. JAR PLOZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	QT EPA 549	-	1	1	+	1	1				{
OT AMBER SOZ. JAR DI OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON			+	+	+		1		1		
S OZ. JAR JI OZ. JAR SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON	OT EPA 8015M	1		+	1	+	1				
SOIL SLEEVE SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS FRON		-	1	1	1	1					
SOIL SLEEVE PCB VIAL PLASTIC BAG FERROUS IRON		-	1	1	+			1			
PCB VIAL PLASTIC BAG FERROUS IRON		TOR	TV	TA	TA	TA	TA				
PLASTIC BAG FERROUS IRON		1 33	1	111	1 1	-					
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Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory **Client Sample Information**

1011659-01 **COC Number:**

> 1156 **Project Number:** Sampling Location:

Sampling Point: MW-3B-5 Sampled By: **DECR**

08/18/2010 21:30 **Receive Date:** 08/16/2010 08:56 Sampling Date:

Sample Depth: Solids Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-3B

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

1011659-02 **COC Number:**

> **Project Number:** 1156 Sampling Location:

MW-3B-10 Sampling Point: **DECR** Sampled By:

Receive Date: 08/18/2010 21:30 Sampling Date: 08/16/2010 09:07

Sample Depth: Solids Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-3B

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

1011659-03 **COC Number:**

Project Number: 1156 Sampling Location:

MW-3B-15 Sampling Point: Sampled By: **DECR**

Receive Date: Sampling Date:

08/18/2010 21:30 08/16/2010 09:15

Sample Depth: Sample Matrix: Solids Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-3B

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

1011659-04 **COC Number:**

> **Project Number:** 1156 Sampling Location:

MW-3B-20 Sampling Point: **DECR** Sampled By:

Receive Date: 08/18/2010 21:30 Sampling Date: 08/16/2010 09:20

Sample Depth: Solids Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-3B

Matrix: SO

Sample QC Type (SACode): CS



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory **Client Sample Information**

1011659-05 **COC Number:**

> 1156 **Project Number:** Sampling Location:

Sampling Point: MW-3B-25

Sampled By: **DECR**

1011659-06 **COC Number:**

1011659-07

Project Number: 1156 Sampling Location:

MW-2B-5 Sampling Point: Sampled By:

DECR

COC Number: Project Number: 1156 Sampling Location:

MW-2B-10 Sampling Point:

Sampled By: **DECR**

1011659-08 **COC Number:**

> **Project Number:** 1156 Sampling Location:

MW-2B-15 Sampling Point:

DECR Sampled By:

08/18/2010 21:30 **Receive Date:** 08/16/2010 09:25 Sampling Date:

Sample Depth: Solids Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-3B

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

Receive Date: 08/18/2010 21:30

Sampling Date: 08/16/2010 12:19

Sample Depth: Solids Sample Matrix:

Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-2B

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

08/18/2010 21:30 Receive Date:

08/16/2010 12:54 Sampling Date:

Sample Depth: Sample Matrix: Solids Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-2B

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

Receive Date: 08/18/2010 21:30 Sampling Date: 08/16/2010 01:00

Sample Depth: Solids Sample Matrix:

Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-2B

Matrix: SO

Sample QC Type (SACode): CS



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory **Client Sample Information**

1011659-09 **COC Number:**

> 1156 **Project Number:** Sampling Location:

Sampling Point: MW-2B-20

Sampled By: **DECR**

Global ID:

Location ID (FieldPoint): MW-2B

Matrix: SO

Delivery Work Order:

Sample QC Type (SACode): CS

Cooler ID:

Receive Date:

Sampling Date:

Sample Depth:

Sample Matrix:

1011659-10 **COC Number:**

> **Project Number:** 1156 Sampling Location:

MW-2B-25 Sampling Point: DECR Sampled By:

Receive Date: 08/18/2010 21:30 Sampling Date: 08/16/2010 01:15

08/18/2010 21:30

08/16/2010 01:10

08/18/2010 21:30

08/16/2010 01:20

Solids

Solids

Sample Depth: Solids Sample Matrix:

Delivery Work Order:

Global ID:

Location ID (FieldPoint): MW-2B

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

Receive Date:

Sampling Date:

Sample Depth:

1011659-11 **COC Number:**

> **Project Number:** 1156 Sampling Location:

Comp Soil Sampling Point:

Sampled By: DECR Sample Matrix: Delivery Work Order:

Global ID:

Location ID (FieldPoint): Comp Soil

Matrix: SO

Sample QC Type (SACode): CS

Cooler ID:

1011659-12 **COC Number:**

> **Project Number:** 1156 Sampling Location:

MW-1B-5 Sampling Point: **DECR** Sampled By:

Receive Date: 08/18/2010 21:30 Sampling Date: 08/17/2010 09:00

Sample Depth: Solids Sample Matrix:

Delivery Work Order:

Location ID (FieldPoint): MW-1B

Matrix: SO

Global ID:

Sample QC Type (SACode): CS



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Laboratory / Client Sample Cross Reference

Laboratory Client Sample Information

1011659-13 COC Number: --- Receive Date:
Project Number: 1156 Sampling Date:

 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

08/18/2010 21:30

08/17/2010 09:10

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-15Sample Matrix:SolidsSampled By:DECRDelivery 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-25Sample Matrix:SolidsSampled By:DECRDelivery Work Order:

Global ID:

Location ID (FieldPoint): MW-1B

Matrix: SO

Sample QC Type (SACode): CS

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10	011659-01	Client Sampl	e Name:	1156, MW-3B-5, 8/1	6/2010 8:56:00	AM		
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 (Surro	ogate)	93.8	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	rogate)	94.4	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/25/10 20:02	MCQ	MS-V3	1	BTH1752	

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:	1011659-01	Client Sampl	e Name:	1156, MW-3B-5, 8/1	6/2010 8:56:00A	M			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Organ	nics (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				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/25/10	08/25/10 23:18	JJH	GC-V8	1	BTH1748	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011659-01	Client Sampl	e Name:	1156, MW-3B-5, 8/1	16/2010 8:56:00/	ΑM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organics	s (C12 - C24)	ND	mg/kg	20	Luft/TPHd	ND	A01,Z1b	1	
Tetracosane (Surrogat	e)	66.7	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1b	1	

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 13:58	MWB	GC-5	9.901	BTH2056	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1	011659-02	Client Sampl	e Name:	1156, MW-3B-10, 8	/16/2010 9:07:00	DAM		
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 (Surr	rogate)	94.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	90.7	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/25/10 20:28	MCQ	MS-V3	1	BTH1752	

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	1156, MW-3B-10, 8/16/2010 9:07:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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					QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/24/10	08/24/10 16:54	JJH	GC-V8	1	BTH1336	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011659-02	Client Sampl	e Name:	1156, MW-3B-10, 8/16/2010 9:07:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	20	Luft/TPHd	ND	A01,Z1b	1	
Tetracosane (Surroga	te)	82.2	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1b	1	

	Run							
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 14:11	MWB	GC-5	9.901	BTH2056	

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 Sampl	e Name:	1156, MW-3B-15, 8	/16/2010 9:15:00	0AM		
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 (S	urrogate)	92.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (S	Surrogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

Run								
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/26/10 05:05	MCQ	MS-V3	1000	BTH1752	

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	1156, MW-3B-15, 8/16/2010 9:15:00AM						
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #			
Gasoline Range Orga	nics (C4 - C12)	310	mg/kg	100	Luft	ND	A01	1			
a,a,a-Trifluorotoluene	(FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1			

	Run							
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/24/10	08/24/10 17:24	JJH	GC-V8	100	BTH1336	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011659-03	Client Sampl	e Name:	1156, MW-3B-15, 8	/16/2010 9:15:00	DAM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organic	cs (C12 - C24)	150	mg/kg	20	Luft/TPHd	ND	A01,Z1b	1	
Tetracosane (Surroga	te)	80.2	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1b	1	

	Run							
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 14:25	MWB	GC-5	9.443	BTH2056	

Project: 1156
Project Number: 4513569988
Project Manager: Jim Barnard

Reported:

09/01/2010 15:32

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

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1011	659-04 Client \$	1156, MW-3B-20	1156, MW-3B-20, 8/16/2010 9:20:00AM						
Constituent	Res	ult Units	PQL	Method	MB Bias	Lab Quals	Run #		
Benzene	ND	mg/kg	0.12	EPA-8260	ND	A01	1		
1,2-Dibromoethane	NE	mg/kg	0.12	EPA-8260	ND	A01	1		
1,2-Dichloroethane	NE	mg/kg	0.12	EPA-8260	ND	A01	1		
Ethylbenzene	0.3	3 mg/kg	0.12	EPA-8260	ND	A01	1		
Methyl t-butyl ether	NE	mg/kg	0.12	EPA-8260	ND	A01	1		
Toluene	0.4	6 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	NC	mg/kg	0.12	EPA-8260	ND	A01	1		
t-Butyl alcohol	NE	mg/kg	1.2	EPA-8260	ND	A01	1		
Diisopropyl ether	NE	mg/kg	0.12	EPA-8260	ND	A01	1		
Ethanol	NE	mg/kg	25	EPA-8260	ND	A01	1		
Ethyl t-butyl ether	NC	mg/kg	0.12	EPA-8260	ND	A01	1		
1,2-Dichloroethane-d4 (Surroga	te) 84.	1 %	70 - 121 (LCL - UCL	_) EPA-8260			1		
Toluene-d8 (Surrogate)	103	3 %	81 - 117 (LCL - UCL	_) EPA-8260			1		
4-Bromofluorobenzene (Surroga	ate) 96.	1 %	74 - 121 (LCL - UCL	_) EPA-8260			1		

	Run						QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8260	08/25/10	08/26/10 14:43	MCQ	MS-V3	25	BTH1752			

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	D: 1011659-04 Client Sample Name:			1156, MW-3B-20, 8	1156, MW-3B-20, 8/16/2010 9:20:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Organ	nics (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					QC				
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft	08/27/10	08/30/10 11:12	JJH	GC-V8	1	BTH1748		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011659-04	Client Sampl	e Name:	1156, MW-3B-20, 8				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	20	Luft/TPHd	ND	A01,Z1b	1
Tetracosane (Surroga	te)	92.8	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1b	1

Run					QC				
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft/TPHd	08/25/10	08/31/10 14:39	MWB	GC-5	10	BTH2056		

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10	11659-05 C	lient Sample	Name:	1156, MW-3B-25, 8/	16/2010 9:25:00	DAM		
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 (Surro	gate)	89.1	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	ogate)	96.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8260	08/25/10	08/26/10 15:35	MCQ	MS-V3	1	BTH1752			

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	Sample ID: 1011659-05 Client Sample Name:			1156, MW-3B-25, 8	1156, MW-3B-25, 8/16/2010 9:25:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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						QC				
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	Luft	08/24/10	08/24/10 18:25	JJH	GC-V8	1	BTH1336			



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011659-05	Client Sampl	e Name:	ame: 1156, MW-3B-25, 8/16/2010 9:25:00A				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1
Tetracosane (Surrogat	te)	78.7	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

	Run							
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 14:53	MWB	GC-5	0.950	BTH2056	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10	011659-06	Client Sampl	e Name:	1156, MW-2B-5, 8/1	16/2010 12:19:00	PM		
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 (Surro	ogate)	105	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		81.7	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	79.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run						QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	EPA-8260	08/25/10	08/26/10 02:30	MCQ	MS-V3	1	BTH1752			

Reported: 09/01/2010 15:32 Delta Environmental Consultants, Inc. Project: 1156 11050 White Rock Rd, Suite 110

Rancho Cordova, CA 95670 Project Number: 4513569988 Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	Client Sample Name:		1156, MW-2B-5, 8/1						
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Organ	nics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1	
a,a,a-Trifluorotoluene	(FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1	

			Run			QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft	08/24/10	08/25/10 12:32	JJH	GC-V8	1	BTH1336		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	Client Sample Name:		1156, MW-2B-5, 8/1	1156, MW-2B-5, 8/16/2010 12:19:00PM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	200	Luft/TPHd	ND	A01,Z1a	1	
Tetracosane (Surrogat	te)	0	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1a	1	

			Run			QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 15:35	MWB	GC-5	98.361	BTH2056	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

		I:00PM	16/2010 12:54:0	1156, MW-2B-10, 8/	Name:	Client Sample	1011659-07	BCL Sample ID:
Run #	Lab Quals	MB Bias	Method	PQL	Units	Result		Constituent
1		ND	EPA-8260	0.0050	mg/kg	ND		Benzene
1		ND	EPA-8260	0.0050	mg/kg	ND		1,2-Dibromoethane
1		ND	EPA-8260	0.0050	mg/kg	ND		1,2-Dichloroethane
1		ND	EPA-8260	0.0050	mg/kg	0.28		Ethylbenzene
1		ND	EPA-8260	0.0050	mg/kg	0.0085		Methyl t-butyl ether
1		ND	EPA-8260	0.0050	mg/kg	0.020		Toluene
1		ND	EPA-8260	0.010	mg/kg	0.84		Total Xylenes
1		ND	EPA-8260	0.0050	mg/kg	ND		t-Amyl Methyl ether
1		ND	EPA-8260	0.050	mg/kg	ND		t-Butyl alcohol
1		ND	EPA-8260	0.0050	mg/kg	ND		Diisopropyl ether
1		ND	EPA-8260	1.0	mg/kg	ND		Ethanol
1		ND	EPA-8260	0.0050	mg/kg	ND		Ethyl t-butyl ether
1			EPA-8260	70 - 121 (LCL - UCL)	%	93.5	(Surrogate)	1,2-Dichloroethane-d4
1			EPA-8260	81 - 117 (LCL - UCL)	%	107)	Toluene-d8 (Surrogate
1			EPA-8260	74 - 121 (LCL - UCL)	%	98.4	(Surrogate)	4-Bromofluorobenzene
		ND	EPA-8260 EPA-8260	70 - 121 (LCL - UCL) 81 - 117 (LCL - UCL)	%	93.5 107)	Ethyl t-butyl ether 1,2-Dichloroethane-d4 Toluene-d8 (Surrogate 4-Bromofluorobenzene

	Run							
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/26/10 02:56	MCQ	MS-V3	1	BTH1752	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-07	Client Sampl	e Name:	1156, MW-2B-10, 8	/16/2010 12:54:0	00PM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (C4 - C12)	54	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene	(FID Surrogate)	108	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft	08/24/10	08/28/10 11:58	JJH	GC-V8	25	BTH1336		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-07	Client Sampl	e Name:	1156, MW-2B-10, 8/16/2010 12:54:00PM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1	
Tetracosane (Surroga	te)	73.4	%	34 - 136 (LCL - UCL)	Luft/TPHd			1	

			Run			QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft/TPHd	08/25/10	08/31/10 15:49	MWB	GC-5	1	BTH2056		

Delta Environmental Consultants, Inc.

Reported: 09/01/2010 15:32

11050 White Rock Rd, Suite 110Project: 1156Rancho Cordova, CA 95670Project Number: 4513569988Project Manager: Jim Barnard

BCL Sample ID: 10)11659-08	Client Sampl	e Name:	1156, MW-2B-15, 8	/16/2010 1:00:0	0AM		
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 (Surro	ogate)	104	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		108	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	99.5	%	74 - 121 (LCL - UCL)	EPA-8260			1

	Run Q0							
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/26/10 03:21	MCQ	MS-V3	1	BTH1752	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-08	Client Sampl	e Name:	1156, MW-2B-15, 8/16/2010 1:00:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (C4 - C12)	55	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene	(FID Surrogate)	101	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft	08/26/10	08/28/10 12:29	JJH	GC-V8	25	BTH1748		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-08	Client Sampl	e Name:	1156, MW-2B-15, 8	/16/2010 1:00:00	DAM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	200	Luft/TPHd	ND	A01,Z1	1
Tetracosane (Surrogat	re)	544	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1	1

			Run			QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft/TPHd	08/25/10	08/31/10 16:03	MWB	GC-5	100	BTH2056		

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID: 1	011659-09	Client Sampl	e Name:	1156, MW-2B-20, 8	/16/2010 1:10:0	0AM		
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 (Sur	rogate)	103	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		89.9	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sui	rrogate)	79.0	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run			QC		
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/26/10 07:14	MCQ	MS-V3	5	BTH1752	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-09	Client Sampl	e Name:	1156, MW-2B-20, 8	156, MW-2B-20, 8/16/2010 1:10:00AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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	Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft	08/24/10	08/24/10 23:00	JJH	GC-V8	1	BTH1336		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-09	Client Sampl	e Name:	1156, MW-2B-20, 8	DAM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	1200	Luft/TPHd	ND	A01,Z1	1
Tetracosane (Surroga	te)	0	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1	1

			Run			QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft/TPHd	08/25/10	08/31/10 16:17	MWB	GC-5	600	BTH2056		

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID: 1	011659-10	Client Sampl	e Name:	1156, MW-2B-25, 8	/16/2010 1:15:0	0AM		
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 (Surr	ogate)	93.4	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/26/10 03:47	MCQ	MS-V3	1	BTH1752	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-10	Client Sampl	e Name:	1156, MW-2B-25, 8	1156, MW-2B-25, 8/16/2010 1:15:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Organ	nics (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				QC			
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	Luft	08/24/10	08/24/10 23:31	JJH	GC-V8	1	BTH1336			

Delta Environmental Consultants, Inc. Reported: 09/01/2010 15:32

11050 White Rock Rd, Suite 110 Project: 1156
Rancho Cordova, CA 95670 Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-10	Client Sampl	e Name:	1156, MW-2B-25, 8	/16/2010 1:15:0			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Diesel Range Organic	cs (C12 - C24)	2.0	mg/kg	2.0	Luft/TPHd	ND	Quais	1
Tetracosane (Surroga	te)	68.2	%	34 - 136 (LCL - UCL)	Luft/TPHd			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 16:31	MWB	GC-5	0.967	BTH2056	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-11	Client Sample	e Name:	1156, Comp Soil, 8/	M			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#
Benzene		ND	mg/kg	0.12	EPA-8260	ND 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 (S	urrogate)	91.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (S	urrogate)	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 (S	Surrogate)	101	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (S	Surrogate)	98.4	%	74 - 121 (LCL - UCL)	EPA-8260			2

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-11	Client Sampl	e Name:	1156, Comp Soil, 8/	16/2010 1:20:00	/2010 1:20:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (C4 - C12)	130	mg/kg	25	Luft	ND	A01	1		
a,a,a-Trifluorotoluene	(FID Surrogate)	114	%	70 - 130 (LCL - UCL)	Luft			1		

			Run				QC				
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID				
1	Luft	08/25/10	08/28/10 13:00	JJH	GC-V8	25	BTH1748				



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-11	Client Sampl	e Name:	1156, Comp Soil, 8/	1156, Comp Soil, 8/16/2010 1:20:00AM						
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #			
Diesel Range Organio	cs (C12 - C24)	2.5	mg/kg	2.0	Luft/TPHd	ND		1			
Tetracosane (Surroga	te)	78.8	%	34 - 136 (LCL - UCL)	Luft/TPHd			1			

			Run				QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	Luft/TPHd	08/25/10	08/31/10 16:46	MWB	GC-5	0.977	BTH2056			

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Concentrations (TTLC)

BCL Sample ID:	1011659-11	Client Sampl	e Name:	1156, Comp S	Soil, 8/16/2010 1:20:00	AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Antimony		ND ND	mg/kg	5.0	EPA-6010B	ND ND	Quuis	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				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-12	Client Sampl	e Name:	1156, MW-1B-5, 8/1	17/2010 9:00:00 <i>A</i>	AM		
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 (Sur	rogate)	81.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
1,2-Dichloroethane-d4 (Sur	rogate)	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 (Su	rrogate)	107	%	74 - 121 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Su	rrogate)	253	%	74 - 121 (LCL - UCL)	EPA-8260		S09	2

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-12	Client Sampl	e Name:	1156, MW-1B-5, 8/1	17/2010 9:00:00	AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (C4 - C12)	210	mg/kg	25	Luft	ND	A01	1
a,a,a-Trifluorotoluene	(FID Surrogate)	106	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft	08/25/10	08/25/10 00:33	JJH	GC-V8	25	BTH1748		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-12	Client Sampl	e Name:	1156, MW-1B-5, 8/1	1156, MW-1B-5, 8/17/2010 9:00:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Diesel Range Organic	s (C12 - C24)	31	mg/kg	20	Luft/TPHd	ND	A01,Z1a	1		
Tetracosane (Surrogat	re)	78.2	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1a	1		

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 17:00	MWB	GC-5	9.836	BTH2056	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID: 10	11659-13 C	lient Sample I	Name:	1156, MW-1B-10, 8/	17/2010 9:10:00)AM		
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 (Surro	gate)	94.3	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	gate)	100	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/26/10 06:48	MCQ	MS-V3	500	BTH1752	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-13	Client Sampl	e Name:	1156, MW-1B-10, 8	1156, MW-1B-10, 8/17/2010 9:10:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Organ	nics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1		
a,a,a-Trifluorotoluene	(FID Surrogate)	113	%	70 - 130 (LCL - UCL)	Luft			1		

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/24/10	08/25/10 01:03	JJH	GC-V8	1	BTH1336	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

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

BCL Sample ID:	1011659-13	Client Sampl	e Name:	1156, MW-1B-10, 8	/17/2010 9:10:00	DAM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organic	s (C12 - C24)	2.7	mg/kg	2.0	Luft/TPHd	ND		1	
Tetracosane (Surrogat	re)	67.4	%	34 - 136 (LCL - UCL)	Luft/TPHd			1	

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 17:14	MWB	GC-5	0.990	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

BCL Sample ID: 101	1659-14 Client	Sample Name:	1156, MW-1B-15	5, 8/17/2010 9:20:00	AM		
Constituent	Res	ult Units	PQL	Method	MB Bias	Lab Quals	Run #
Benzene	NI) mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dibromoethane	NI) mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane	NI) mg/kg	2.5	EPA-8260	ND	A01	1
Ethylbenzene	38	B mg/kg	2.5	EPA-8260	ND	A01	1
Methyl t-butyl ether	NI) mg/kg	2.5	EPA-8260	ND	A01	1
Toluene	6.	2 mg/kg	2.5	EPA-8260	ND	A01	1
Total Xylenes	15	0 mg/kg	5.0	EPA-8260	ND	A01	1
t-Amyl Methyl ether	NI) mg/kg	2.5	EPA-8260	ND	A01	1
t-Butyl alcohol	NI) mg/kg	25	EPA-8260	ND	A01	1
Diisopropyl ether	NI) mg/kg	2.5	EPA-8260	ND	A01	1
Ethanol	NI) mg/kg	500	EPA-8260	ND	A01	1
Ethyl t-butyl ether	NI) mg/kg	2.5	EPA-8260	ND	A01	1
1,2-Dichloroethane-d4 (Surrog	ate) 94	4 %	70 - 121 (LCL - UCL	.) EPA-8260			1
Toluene-d8 (Surrogate)	10	3 %	81 - 117 (LCL - UCL	.) EPA-8260			1
4-Bromofluorobenzene (Surrog	gate) 94	6 %	74 - 121 (LCL - UCL	.) EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/26/10 07:40	MCQ	MS-V3	500	BTH1752	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-14	Client Sampl	e Name:	1156, MW-1B-15, 8	/17/2010 9:20:0	0AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (C4 - C12)	270	mg/kg	50	Luft	ND	A01	1
a,a,a-Trifluorotoluene	(FID Surrogate)	112	%	70 - 130 (LCL - UCL)	Luft			1

			Run			QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft	08/25/10	08/28/10 13:30	JJH	GC-V8	50	BTH1748		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-14	Client Sampl	ent Sample Name: 1156, MW-1B-15, 8/17/2010 9:20:00AM						
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organio	cs (C12 - C24)	110	mg/kg	20	Luft/TPHd	ND	A01,A52	1	
Tetracosane (Surroga	te)	81.2	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17	1	

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 17:28	MWB	GC-5	9.901	BTH2056	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

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

BCL Sample ID:	1011659-15	Client Sampl	e Name:	1156, MW-1B-20, 8	/17/2010 9:25:0	0AM	M					
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 (Su	rrogate)	80.1	%	70 - 121 (LCL - UCL)	EPA-8260			1				
1,2-Dichloroethane-d4 (Su	rrogate)	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 (Su	ırrogate)	104	%	74 - 121 (LCL - UCL)	EPA-8260			1				
4-Bromofluorobenzene (Su	ırrogate)	200	%	74 - 121 (LCL - UCL)	EPA-8260		A19,S09	2				

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

BCL Sample ID:	1011659-15	Client Sampl	e Name:	1156, MW-1B-20, 8	1156, MW-1B-20, 8/17/2010 9:25:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run#	
Gasoline Range Orga	nics (C4 - C12)	200	mg/kg	25	Luft	ND	A01	1	
a,a,a-Trifluorotoluene	(FID Surrogate)	100	%	70 - 130 (LCL - UCL)	Luft			1	

		Run QC						
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/25/10	08/28/10 14:01	JJH	GC-V8	25	BTH1748	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-15	Client Sampl	e Name:	1156, MW-1B-20, 8/17/2010 9:25:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organics	s (C12 - C24)	ND	mg/kg	200	Luft/TPHd	ND	A01,Z1a	1
Tetracosane (Surrogat	re)	35.5	%	34 - 136 (LCL - UCL)	Luft/TPHd		A01,A17,Z1a	1

		Run					QC		
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID		
1	Luft/TPHd	08/25/10	08/31/10 17:43	MWB	GC-5	100	BTH2056		

Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID: 1	011659-16	Client Sample	e Name:	1156, MW-1B-25, 8	0AM			
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 (Suri	rogate)	97.7	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		104	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Sur	rogate)	98.2	%	74 - 121 (LCL - UCL)	EPA-8260			1
- Bromondorobenzene (odi		50.2	70	77 121 (LOL - OOL)	Li /\ 0200			

			Run			QC		
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/25/10	08/26/10 04:13	MCQ	MS-V3	1	BTH1752	

Delta Environmental Consultants, Inc.

Reported: 09/01/2010 15:32 11050 White Rock Rd, Suite 110 Project: 1156

Rancho Cordova, CA 95670 Project Number: 4513569988
Project Manager: Jim Barnard

BCL Sample ID:	1011659-16	Client Sampl	e Name:	1156, MW-1B-25, 8	1156, MW-1B-25, 8/17/2010 9:30:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Organ	nics (C4 - C12)	ND	mg/kg	1.0	Luft	ND		1	
a,a,a-Trifluorotoluene	(FID Surrogate)	100	%	70 - 130 (LCL - UCL)	Luft			1	

		Run QC						
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/25/10	08/30/10 11:42	JJH	GC-V8	1	BTH1748	



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

BCL Sample ID:	1011659-16	Client Sampl	e Name:	1156, MW-1B-25, 8	/17/2010 9:30:00	0AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1	
Tetracosane (Surrogat	re)	74.8	%	34 - 136 (LCL - UCL)	Luft/TPHd			1	

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/25/10	08/31/10 19:37	MWB	GC-5	0.990	BTH2056	



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)	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

						Control Limits				
		_		Spike		Percent		Percent		
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

				•							
									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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	



Reported: 09/01/2010 15:32

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)	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

							Control Limits			
Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
Constituent	QC Sample ID	туре	Result	Level	Units	Recovery	KFD	Recovery	KFD	Lab Quais
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		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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	



09/01/2010 15:32 Reported:

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

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)	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

								Control L	<u>imits</u>	
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
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		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
	Llood	oliant aamala	V Dooon	intion: NAVA/	1D 0E 00/17	//2010 00:	20				
QC Batch ID: BTH2056	Useu (client sample:	r - Desci	iption. ivivv-	16-25, 06/17	/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	



Reported: 09/01/2010 15:32

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		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

								Control L	<u>imits</u>	
				Spike		Percent		Percent		
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTH1746	Used	client sample	: N								
Antimony	DUP	1011722-03	0.83759	ND		mg/kg			20		A02
7.11.11.10.11.9	MS	1011722-03	0.83759	51.569	100.00	mg/kg		50.7		16 - 119	7.02
	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	Q03
	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	



Reported: 09/01/2010 15:32

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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. Reported: 09/01/2010 15:32 11050 White Rock Rd, Suite 110 Project: 1156

Rancho Cordova, CA 95670 Project Number: 4513569988 Project Manager: Jim Barnard

Notes And Definitions

MDL Method Detection Limit

ND Analyte Not Detected at or above the reporting limit

Practical Quantitation Limit **PQL** RPD Relative Percent Difference

PQL's and MDL's are raised due to sample dilution. A01

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.

SAMPLE DILUTED DUE TO HIGH CONCENTRATION OF MOTOR OIL **Z1** SAMPLE DILUTED DUE TO HIGH CONCENTRATION OF MOTOR OIL. Z1a 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

Molly Meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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Inc.

Chain of Custody and Cooler Receipt Form for 1011431 sting Laboratory Since 1949

Page 1 of 2

Conoc	hillips Chain Of C	ustody Record
Shelby	Lathrop	ConocoPhilips SAP Project Number
01101103		

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

	DATE: _
ConocoPhillips Requisition I Line Number	PAGE:_
GLOBAL ID NO.:	

Terry Grayson

800

42-16 Mar Ave Huw	PHONE HO.:	Terry Grayson	LAS USE ONEY SAT 10-114
James Barnard	916-503-4299		10-113410
REQ	UESTED ANALYSES		
8048M - THP9, TPHd 8086M - TPFM 8066M - TPFM 705			FIELD NOTES: Container®reservative or PID Readings or Laboratory Notes
82808 - ТНР9.			TEMPERATURE ON RECEIPT C*
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8/16/10

atories, Inc.

11050 White Rock Road #110, Rancho Cordova, CA 95670

☐ 14 DAYS ☐ 7 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ USSSTHAN 24 HOURS

Please CC Alan Buehler (abuehler@deltaenv.com) on reports

Field Point name only required if different from Sample ID

Sample Identification/Field Point SAMPL

Name*

4100 Atlas Court

Bakersfield, CA 93308

(661) 327-4911 (661) 327-1918 fax

BETTER 10 day forn

Sames Barnard

flow Breller TURNAROUND TIME (GALENDAR DAYS):

SPECIAL INSTRUCTIONS OR NOTES:

MW-415-5

MW-413-10

MW-413-15

MW-413-20

MW-413-25

ConocoPhillips Site Manager:

JBarnarde deltaenvicon

CHECK BOX IF ROD IS NEEDED [2]

NO. OF CONT.

Kiss Dicken

MATRIE

ONSULTANT PROJECT NUMBER

C101156

SAMPLING

TIME

10-16

10:25

10130

10:36

10:04 50:1

DATE

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and Value ID:

INVOICE REMITTANCE ADDRESS:

156

BC Lá.

Delta Consultants

916-503-1279

WANTEL HAMED SOUTH

AppRESS:

LAB USE

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Page 3 of 34



Chain of Custody and Cooler Receipt Form for 1011431 Page 2 of 2

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PT INORGANIC CHEMICAL METALS	-								-	-	
PT CYANIDE	-								-	1	
PT NITROGEN FORMS	1								-		
PT TOTAL SULFIDE									-		
20Z NETRATE / NETRITE								-	-		
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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:



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:

Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10	11431-01	Client Sampl	e Name:	1156, MW-4B-5, 8/1	3/2010 10:04:00	AM		
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 (Surro	gate)	98.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		97.4	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	ogate)	92.6	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/20/10	08/22/10 15:16	MCQ	MS-V3	1	BTH1403	

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 Sampl	e Name:	1156, MW-4B-5, 8/1	3/2010 10:04:00)AM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Organ	nics (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						
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	Luft	08/19/10	08/20/10 13:21	JJH	GC-V8	1	BTH1336



Delta Environmental Consultants, Inc.

Reported: 09/03/2010 11:29

11050 White Rock Rd, Suite 110 Project: 1156
Rancho Cordova, CA 95670 Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011431-01	Client Sampl	e Name:	1156, MW-4B-5, 8/1	13/2010 10:04:00	AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	20	Luft/TPHd	ND	A01	1
Tetracosane (Surroga	te)	0	%	34 - 136 (LCL - UCL)	Luft/TPHd		A17	1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/20/10	08/29/10 23:17	MWB	GC-2	9.833	BTH2015	

Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

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

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10)11431-02	Client Sample	e Name:	1156, MW-4B-10, 8	/13/2010 10:16:0	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 (Surro	ogate)	102	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		99.3	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surr	ogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/20/10	08/22/10 15:42	MCQ	MS-V3	5	BTH1403	

MU

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 Sampl	e Name:	1156, MW-4B-10, 8	/13/2010 10:16:0	00AM		
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #
Gasoline Range Orga	nics (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 (Surroga	te)	71.2	%	20 - 145 (LCL - UCL)	Luft/FFP			2
a,a,a-Trifluorotoluene	(FID Surrogate)	100	%	70 - 130 (LCL - UCL)	Luft			1

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

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

EPA Method 1664

BCL Sample ID:	1011431-02	Client Sample	e 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					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-1664HEM	08/24/10	08/24/10 09:00	JAK	MAN-SV	1	BTH1729	

Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

1011431-03	Client Sampl	e Name:	1156, MW-4B-15, 8	1156, MW-4B-15, 8/13/2010 10:25:00AM			
	Result	Units	POL	Method	MB Bias	Lab Quals	Run#
	ND	mg/kg	0.50	EPA-8260	ND	A01	1
	ND	mg/kg	0.50	EPA-8260	ND	A01	1
	ND	mg/kg	0.50	EPA-8260	ND	A01	1
	41	mg/kg	0.50	EPA-8260	ND	A01	1
	ND	mg/kg	0.50	EPA-8260	ND	A01	1
	0.89	mg/kg	0.50	EPA-8260	ND	A01	1
	170	mg/kg	5.0	EPA-8260	ND	A01	2
	ND	mg/kg	0.50	EPA-8260	ND	A01	1
	ND	mg/kg	5.0	EPA-8260	ND	A01	1
	ND	mg/kg	0.50	EPA-8260	ND	A01	1
	ND	mg/kg	100	EPA-8260	ND	A01	1
	ND	mg/kg	0.50	EPA-8260	ND	A01	1
Surrogate)	104	%	70 - 121 (LCL - UCL)	EPA-8260			1
Surrogate)	90.9	%	70 - 121 (LCL - UCL)	EPA-8260			2
	106	%	81 - 117 (LCL - UCL)	EPA-8260			1
	102	%	81 - 117 (LCL - UCL)	EPA-8260			2
(Surrogate)	103	%	74 - 121 (LCL - UCL)	EPA-8260			1
(Surrogate)	96.3	%	74 - 121 (LCL - UCL)	EPA-8260			2
	Surrogate) Surrogate)	Result ND ND ND ND ND ND ND N	Result Units ND mg/kg ND mg/kg ND mg/kg 41 mg/kg ND mg/kg 170 mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg ND mg/kg Surrogate) 104 % Surrogate) 90.9 % 106 % Surrogate) 103 %	Result Units PQL ND mg/kg 0.50 ND mg/kg 0.50 ND mg/kg 0.50 41 mg/kg 0.50 ND mg/kg 0.50 170 mg/kg 5.0 ND mg/kg 5.0 ND mg/kg 5.0 ND mg/kg 0.50 ND mg/kg 0.50 ND mg/kg 0.50 Surrogate) 104 % 70 - 121 (LCL - UCL) Surrogate) 90.9 % 70 - 121 (LCL - UCL) 102 % 81 - 117 (LCL - UCL) Surrogate) 103 % 74 - 121 (LCL - UCL)	Result Units PQL Method ND mg/kg 0.50 EPA-8260 ND mg/kg 0.50 EPA-8260 ND mg/kg 0.50 EPA-8260 41 mg/kg 0.50 EPA-8260 ND mg/kg 0.50 EPA-8260 170 mg/kg 0.50 EPA-8260 ND mg/kg 5.0 EPA-8260 ND mg/kg 0.50 EPA-8260 ND mg/kg 5.0 EPA-8260 ND mg/kg 0.50 EPA-8260 ND mg/kg 0.50 EPA-8260 ND mg/kg 100 EPA-8260 Surrogate) 104 % 70 - 121 (LCL - UCL) EPA-8260 Surrogate) 90.9 % 70 - 121 (LCL - UCL) EPA-8260 Surrogate) 106 % 81 - 117 (LCL - UCL) EPA-8260 Surrogate) 103 % 74 - 121 (LCL - UCL) EPA-8260	Result Units PQL Method Bias ND mg/kg 0.50 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND 170 mg/kg 0.50 EPA-8260 ND ND mg/kg 5.0 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND ND mg/kg 0.50 EPA-8260 ND Surrogate) 104 % 70 - 121 (LCL - UCL) EPA-8260 ND mg/kg 0.50 EPA-8260 ND Surrogate) 90.9 <td< td=""><td> Result Units PQL Method Bias Quals ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 A1 mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 A01 170 mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 Surrogate 104 % 70 - 121 (LCL - UCL) EPA-8260 Surrogate 90.9 % 70 - 121 (LCL - UCL) EPA-8260 106 % 81 - 117 (LCL - UCL) EPA-8260 Surrogate 103 % 74 - 121 (LCL - UCL) EPA-8260 Surrogate 103 % 74 - 121 (LCL - UCL) EPA-8260 Surrogate 103 % 74 - 121 (LCL - UCL) EPA-8260 Surrogate 103 % 74 - 121 (LCL - UCL) EPA-8260 </td></td<>	Result Units PQL Method Bias Quals ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 A1 mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 A01 170 mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 5.0 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 ND mg/kg 0.50 EPA-8260 ND A01 Surrogate 104 % 70 - 121 (LCL - UCL) EPA-8260 Surrogate 90.9 % 70 - 121 (LCL - UCL) EPA-8260 106 % 81 - 117 (LCL - UCL) EPA-8260 Surrogate 103 % 74 - 121 (LCL - UCL) EPA-8260 Surrogate 103 % 74 - 121 (LCL - UCL) EPA-8260 Surrogate 103 % 74 - 121 (LCL - UCL) EPA-8260 Surrogate 103 % 74 - 121 (LCL - UCL) EPA-8260

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	

09/03/2010 11:29 Reported:

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1011431-03	Client Sampl	e Name:	1156, MW-4B-15, 8	1156, MW-4B-15, 8/13/2010 10:25:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Gasoline Range Orga	nics (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					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/19/10	08/24/10 15:53	JJH	GC-V8	500	BTH1336	



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011431-03	Client Sampl	e Name:	1156, MW-4B-15, 8	1156, MW-4B-15, 8/13/2010 10:25:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Diesel Range Organio	cs (C12 - C24)	15	mg/kg	2.0	Luft/TPHd	ND		1		
Tetracosane (Surroga	te)	79.7	%	34 - 136 (LCL - UCL)	Luft/TPHd			1		

			Run		QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/20/10	08/30/10 01:25	MWB	GC-2	0.938	BTH2015	

Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 1	011431-04	Client Sampl	e Name:	1156, MW-4B-20, 8	/13/2010 10:30:0	MA00		
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 (Sur	rogate)	99.2	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		101	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Su	rrogate)	96.3	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run					
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/20/10	08/22/10 16:34	MCQ	MS-V3	100	BTH1403	

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 Sampl	e Name:	1156, MW-4B-20, 8	1156, MW-4B-20, 8/13/2010 10:30:00AM				
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Orga	nics (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				QC			
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID			
1	Luft	08/19/10	08/20/10 14:53	JJH	GC-V8	1	BTH1336			



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011431-04	Client Sampl	e Name:	1156, MW-4B-20, 8	1156, MW-4B-20, 8/13/2010 10:30:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Diesel Range Organic	s (C12 - C24)	ND	mg/kg	2.0	Luft/TPHd	ND		1		
Tetracosane (Surroga	te)	86.4	%	34 - 136 (LCL - UCL)	Luft/TPHd			1		

			Run				QC
Run	# Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	Luft/TPHd	08/20/10	08/30/10 01:51	MWB	GC-2	1.010	BTH2015

Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 10	11431-05	Client Sampl	e Name:	1156, MW-4B-25, 8	/13/2010 10:36:0	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 (Surro	gate)	96.5	%	70 - 121 (LCL - UCL)	EPA-8260			1
Toluene-d8 (Surrogate)		102	%	81 - 117 (LCL - UCL)	EPA-8260			1
4-Bromofluorobenzene (Surro	ogate)	102	%	74 - 121 (LCL - UCL)	EPA-8260			1

			Run				QC	
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	EPA-8260	08/20/10	08/24/10 20:41	MCQ	MS-V3	25	BTH1403	

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 Sampl	e Name:	1156, MW-4B-25, 8	1156, MW-4B-25, 8/13/2010 10:36:00AM					
Constituent		Result	Units	PQL	MB Lab PQL Method Bias Quals I					
Gasoline Range Orga	nics (C4 - C12)	150	mg/kg	25	Luft	ND	A01	1		
a,a,a-Trifluorotoluene	(FID Surrogate)	110	%	70 - 130 (LCL - UCL)	Luft			1		

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/25/10	08/25/10 16:39	JJH	GC-V8	25	BTH1748	



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

BCL Sample ID:	1011431-05	Client Sampl	e Name:	1156, MW-4B-25, 8	1156, MW-4B-25, 8/13/2010 10:36:00AM					
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #		
Diesel Range Organic	cs (C12 - C24)	4.4	mg/kg	2.0	Luft/TPHd	ND		1		
Tetracosane (Surrogat	te)	57.8	%	34 - 136 (LCL - UCL)	Luft/TPHd			1		

			Run				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft/TPHd	08/20/10	08/30/10 02:16	MWB	GC-2	0.938	BTH2015	



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

QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	ND	mg/kg	0.010		
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	ND	mg/kg	0.050		
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	ND	mg/kg	1.0		
BTH1403-BLK1	ND	mg/kg	0.0050		
BTH1403-BLK1	100	%	70 - 121	(LCL - UCL)	
BTH1403-BLK1	101	%	81 - 117	(LCL - UCL)	
BTH1403-BLK1	101	%	74 - 121	(LCL - UCL)	
	BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1 BTH1403-BLK1	BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND BTH1403-BLK1 ND	BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg BTH1403-BLK1 ND mg/kg	BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 1.0 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050	BTH1403-BLK1 ND mg/kg 0.0050 BTH1403-BLK1 ND mg/kg 0.0050



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

								Control L	<u>imits</u>	
0	00.0		D 14	Spike	11	Percent	DDD	Percent	DDD	1 -1 -01
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		



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

	·		·	·				Cont	rol Limits	
	Source	Source		Spike			Percent		Percent	Lab
Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
Used	client sample:	: N								
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	
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	
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	
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	
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	
	MS MSD MS MSD MS MSD MS MSD MS MSD MS MSD MSD	Type Sample ID Used client sample: MS 1011454-10 MSD 1011454-10 MSD 1011454-10 MSD 1011454-10 MS 1011454-10 MSD 1011454-10 MSD 1011454-10 MSD 1011454-10 MSD 1011454-10 MSD 1011454-10 MSD 1011454-10	Type Sample ID Result Used client sample: N MS 1011454-10 ND MSD 1011454-10 ND MS 1011454-10 ND MSD 1011454-10 ND MSD 1011454-10 ND MS 1011454-10 ND MS 1011454-10 ND MSD 1011454-10 ND MS 1011454-10 ND	Type Sample ID Result Result Used client sample: N MS 1011454-10 ND 0.12199 MSD 1011454-10 ND 0.11835 MS 1011454-10 ND 0.13162 MSD 1011454-10 ND 0.12445 MS 1011454-10 ND 0.050273 MSD 1011454-10 ND 0.050318 MS 1011454-10 ND 0.051415 MSD 1011454-10 ND 0.050549 MS 1011454-10 ND 0.049310	Type Sample ID Result Result Added Used client sample: N MS 1011454-10 ND 0.12199 0.12500 MSD 1011454-10 ND 0.11835 0.12500 MS 1011454-10 ND 0.13162 0.12500 MSD 1011454-10 ND 0.12445 0.12500 MS 1011454-10 ND 0.050273 0.050000 MSD 1011454-10 ND 0.050318 0.050000 MSD 1011454-10 ND 0.051415 0.050000 MS 1011454-10 ND 0.050549 0.050000 MS 1011454-10 ND 0.049310 0.050000	Type Sample ID Result Result Added Units Used client sample: N MS 1011454-10 ND 0.12199 0.12500 mg/kg MSD 1011454-10 ND 0.11835 0.12500 mg/kg MS 1011454-10 ND 0.13162 0.12500 mg/kg MSD 1011454-10 ND 0.050273 0.050000 mg/kg MSD 1011454-10 ND 0.050318 0.050000 mg/kg MS 1011454-10 ND 0.051415 0.050000 mg/kg MSD 1011454-10 ND 0.050549 0.050000 mg/kg MS 1011454-10 ND 0.049310 0.050000 mg/kg	Type Sample ID Result Added Units RPD Used client sample: N MS 1011454-10 ND 0.12199 0.12500 mg/kg 3.0 MSD 1011454-10 ND 0.11835 0.12500 mg/kg 3.0 MS 1011454-10 ND 0.13162 0.12500 mg/kg 5.6 MS 1011454-10 ND 0.050273 0.050000 mg/kg 5.6 MS 1011454-10 ND 0.050318 0.050000 mg/kg 6 MS 1011454-10 ND 0.051415 0.050000 mg/kg 6 MS 1011454-10 ND 0.050549 0.050000 mg/kg 6 MS 1011454-10 ND 0.049310 0.050000 mg/kg 6	Type Sample ID Result Result Added Units RPD Recovery Used client sample: N MS 1011454-10 ND 0.12199 0.12500 mg/kg 97.6 MSD 1011454-10 ND 0.11835 0.12500 mg/kg 3.0 94.7 MS 1011454-10 ND 0.13162 0.12500 mg/kg 105 105 MSD 1011454-10 ND 0.050273 0.050000 mg/kg 5.6 99.6 MS 1011454-10 ND 0.050273 0.050000 mg/kg 101 MS 1011454-10 ND 0.050318 0.050000 mg/kg 101 MS 1011454-10 ND 0.051415 0.050000 mg/kg 103 MSD 1011454-10 ND 0.050549 0.050000 mg/kg 101 MS 1011454-10 ND 0.049310 0.050000 mg/kg 98.6	Source Type Source Sample ID Source Result Result Spike Added Units Percent Recovery RPD Used client sample: N ND 0.12199 0.12500 mg/kg 97.6 97.6 MSD 1011454-10 ND 0.11835 0.12500 mg/kg 3.0 94.7 20 MS 1011454-10 ND 0.13162 0.12500 mg/kg 5.6 99.6 20 MSD 1011454-10 ND 0.050273 0.050000 mg/kg 5.6 99.6 20 MS 1011454-10 ND 0.050318 0.050000 mg/kg 101 ND MS 1011454-10 ND 0.051415 0.050000 mg/kg 103 ND MSD 1011454-10 ND 0.050549 0.050000 mg/kg 101 MS 1011454-10 ND 0.049310 0.050000 mg/kg 101	Type Sample ID Result Added Units RPD Recovery RPD Recovery Used client sample: N 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 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 MS 1011454-10 ND 0.050273 0.050000 mg/kg 101 70 - 121 MS 1011454-10 ND 0.050318 0.050000 mg/kg 101 70 - 121 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



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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)	



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

							Control Limits			
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
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		

Delta Environmental Consultants, Inc.

Reported: 09/03/2010 11:29

11050 White Rock Rd, Suite 110 Project: 1156
Rancho Cordova, CA 95670 Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

								Control Limits		
	Source	Source		Spike			Percent		Percent	Lab
Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
Used client sample: N										
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	
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	
Used	client sample	: N								
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	
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	
Used	client sample	Y - Descr	iption: MW-	4B-5, 08/13/2	2010 10:04	4				
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	
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	
	Used of MS MSD Used of MS MSD Used of MS MSD MSD MS MSD MS MSD MS MSD MS	Type Sample ID Used client sample: MS MS 1009676-86 MSD 1009676-86 MSD 1009676-86 MSD 10109676-86 Used client sample: MS MSD 1011454-09 MSD 1011454-09 MSD 1011454-09 Used client sample: MS MS 1011431-01 MS 1011431-01 MS 1011431-01	Type Sample ID Result Used client sample: N MS 1009676-86 ND MSD 1009676-86 ND MSD 1009676-86 ND MSD 1009676-86 ND Used client sample: N MS 1011454-09 ND MSD 1011454-09 ND MSD 1011454-09 ND Used client sample: Y - Descr MS 1011431-01 ND MSD 1011431-01 ND MS 1011431-01 ND	Type Sample ID Result Result Used client sample: N MS 1009676-86 ND 5.1551 MSD 1009676-86 ND 5.2650 MS 1009676-86 ND 0.036500 MSD 1009676-86 ND 0.036700 Used client sample: N MS 1011454-09 ND 4.9157 MS 1011454-09 ND 5.0214 MS 1011454-09 ND 0.039100 MSD 1011454-09 ND 0.040400 Used client sample: Y - Description: MW-4 MS 1011431-01 ND 13.922 MSD 1011431-01 ND 12.477 MS 1011431-01 ND 0.62976	Type Sample ID Result Result Added Used client sample: N MS 1009676-86 ND 5.1551 5.0000 MSD 1009676-86 ND 5.2650 5.0000 MS 1009676-86 ND 0.036500 0.040000 MSD 1009676-86 ND 0.036700 0.040000 Used client sample: N ND 4.9157 5.0000 MSD 1011454-09 ND 5.0214 5.0000 MS 1011454-09 ND 0.039100 0.040000 MSD 1011454-09 ND 0.040400 0.040000 Used client sample: Y - Description: MW-4B-5, 08/13/2 MS 1011431-01 ND 13.922 16.949 MSD 1011431-01 ND 12.477 16.556 MS 1011431-01 ND 0.62976 0.67797	Type Sample ID Result Result Added Units Used client sample: N MS 1009676-86 ND 5.1551 5.0000 mg/kg MSD 1009676-86 ND 0.036500 0.040000 mg/kg MSD 1009676-86 ND 0.036700 0.040000 mg/kg MSD 1011454-09 ND 4.9157 5.0000 mg/kg MSD 1011454-09 ND 5.0214 5.0000 mg/kg MS 1011454-09 ND 0.039100 0.040000 mg/kg MSD 1011454-09 ND 0.040400 0.040000 mg/kg Used client sample: Y - Description: MW-4B-5, 08/13/2010 10:04 MS 1011431-01 ND 13.922 16.949 mg/kg MSD 1011431-01 ND 12.477 16.556 mg/kg MS 1011431-01 ND 0.62976 0.67797 mg/kg	Type Sample ID Result Added Units RPD Used client sample: N MS 1009676-86 ND 5.1551 5.0000 mg/kg 2.1 MSD 1009676-86 ND 0.036500 0.040000 mg/kg 2.1 MS 1009676-86 ND 0.036700 0.040000 mg/kg - MSD 1011454-09 ND 4.9157 5.0000 mg/kg 2.1 MS 1011454-09 ND 5.0214 5.0000 mg/kg 2.1 MS 1011454-09 ND 0.039100 0.040000 mg/kg - MSD 1011454-09 ND 0.040400 0.040000 mg/kg - MSD 1011431-01 ND 13.922 16.949 mg/kg MSD 1011431-01 ND 12.477 16.556 mg/kg MS 1011431-01 ND 0.62976 0.67797 mg/kg	Type Sample ID Result Result Added Units RPD Recovery Used client sample: N MS 1009676-86 ND 5.1551 5.0000 mg/kg 2.1 103 MSD 1009676-86 ND 0.036500 0.040000 mg/kg 2.1 105 MS 1009676-86 ND 0.036700 0.040000 mg/kg 2.1 91.2 MSD 1011454-09 ND 4.9157 5.0000 mg/kg 2.1 100 MS 1011454-09 ND 5.0214 5.0000 mg/kg 2.1 100 MS 1011454-09 ND 0.039100 0.040000 mg/kg 2.1 100 MS 1011454-09 ND 0.039100 0.040000 mg/kg 2.1 101 Used client sample: Y - Description: MW-4B-5, 08/13/2010 10:04 1010 101 Used client sample: Y - Description: MS-5, 08/13/2010 10:04 8.6 75.4	Type Source Sample ID Result Result Added Units RPD Percent Used client sample: N MS 1009676-86 ND 5.1551 5.0000 mg/kg 103 20 MS 1009676-86 ND 5.2650 5.0000 mg/kg 2.1 105 20 MS 1009676-86 ND 0.036500 0.040000 mg/kg 91.2 10 MSD 1009676-86 ND 0.036700 0.040000 mg/kg 91.8 10 Used client sample: N MS 1011454-09 ND 4.9157 5.0000 mg/kg 2.1 100 20 MS 1011454-09 ND 5.0214 5.0000 mg/kg 2.1 100 20 MS 1011454-09 ND 0.039100 0.040000 mg/kg 2.1 100 20 Used client sample: Y - Description: MW-4B-5, 08/13/2010 10:04 10:04 10:04 10:04 10:04 <td>Type Source Sample ID Source Result Result Spike Added Units RPD Percent Recovery RPD Percent Recovery Used client sample: N 1009676-86 ND 5.1551 5.0000 mg/kg 1 103 70 - 130 MSD 1009676-86 ND 5.2650 5.0000 mg/kg 2.1 105 20 70 - 130 MSD 1009676-86 ND 0.036500 0.040000 mg/kg 2.1 105 20 70 - 130 MSD 1009676-86 ND 0.036700 0.040000 mg/kg 91.2 70 - 130 MSD 10109676-86 ND 0.036700 0.040000 mg/kg 91.8 70 - 130 MSD 1011454-09 ND 4.9157 5.0000 mg/kg 2.1 100 20 70 - 130 MS 1011454-09 ND 0.039100 0.040000 mg/kg 2.1 100 20 70 - 130 MSD 1011434-09 ND 0</td>	Type Source Sample ID Source Result Result Spike Added Units RPD Percent Recovery RPD Percent Recovery Used client sample: N 1009676-86 ND 5.1551 5.0000 mg/kg 1 103 70 - 130 MSD 1009676-86 ND 5.2650 5.0000 mg/kg 2.1 105 20 70 - 130 MSD 1009676-86 ND 0.036500 0.040000 mg/kg 2.1 105 20 70 - 130 MSD 1009676-86 ND 0.036700 0.040000 mg/kg 91.2 70 - 130 MSD 10109676-86 ND 0.036700 0.040000 mg/kg 91.8 70 - 130 MSD 1011454-09 ND 4.9157 5.0000 mg/kg 2.1 100 20 70 - 130 MS 1011454-09 ND 0.039100 0.040000 mg/kg 2.1 100 20 70 - 130 MSD 1011434-09 ND 0



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

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)	



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

								Control L	<u>imits</u>	
				Spike		Percent		Percent		
Constituent	QC Sample ID	Туре	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
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		



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTH2015	Used (client sample:	Y - Descr	ription: MW-	4B-5, 08/13/2	2010 10:04	1				
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	



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		



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Laboratory Control Sample

								Control L	<u>imits</u>	
				Spike		Percent		Percent		
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals
QC Batch ID: BTH1729										
Oil and Grease	BTH1729-BS1	LCS	706.00	748.00	mg/kg	94.4		59 - 117		



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

EPA Method 1664

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
OC Batal ID. DTUAZOO	l leed (client sample:	V - Descr	intion: M/M-	4R-10 08/13	R/2010 10··	16				
QC Batch ID: BTH1729		•		•	4D-10, 00/10						
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	



Reported: 09/03/2010 11:29

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

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

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

nolly meyers

Client Service Rep

Authorized Signature

Certifications: CA ELAP #1186; NV #CA00014



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	All results li	The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be repr
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BC La. Jories, Inc.

4100 Atlas Court

ConocoPhillips Site Manager:

INVOICE REMITTANCE ADDRESS:

Chain o		BC
Chain of Custody and Cooler Receipt Form for 1011976 Page 1 of 2	Environmental Testing Laboratory Since 1949	Laboratories, Inc.
1011976		=
Page 1 of 2		

Shelby Lathrop	GonocoPhilips GAP Project Number	
CONOCOPHILLIPS		DATE:
Attn: Dee Hutchinson 3611 South Harbor, Suite 200	ConocePhillips Requisition / Line Number	PAGE: of
Santa Ana, CA. 92704		

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Delta Consultants ADDRESS:			048588 ISNº									_				PS SITE M			
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**8 Day Turn																			FIELD NOTES:
SPECIAL INSTRUCTIONS OR NOTES:	CHECK BOX IF EDD IS NEEDED [-	- I _	1 2																Container/Preservative or PID Readings
Please CC Alan Buehler (abuehler@	deltaenv.com) on reports	Įž	ő		1	1						1 1		1 1					or Laboratory Notes
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* Field Point name only required if different from L40 Sample Identification/Field Point	PANIELIUC	NO. CF 55 CONT. 98	8250B - BTEX. 0 Oxys	8015M - TPHmo	1664 - TOG	CAM											1		TEMPERATURE ON RECEIPT C*
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Chain of Custody and Cooler Receipt Form for 1011976 Page 2 of 2

BC LABORATORIES INC.		SAMPLE	RECEIP	TFORM	Rev	No. 12	06/24/08	Page _	Of _	
Submission #: 10-11976										
SHIPPING INFORM Federal Express □ UPS □ H: BC Lab Field Service ⟨Ø Other □	and Deliv			10	e Chest 8	6	IG CONT None Other		ify)	
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PT CYANIDE										
PT NITROGEN FORMS									-	-
PT TOTAL SULFIDE									 	
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PT TOTAL ORGANIC CARBON				-	<u> </u>				-	-
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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:

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 Sampl	e Name:	1156, Composite H	2O, 8/25/2010 12	2:15:00PM		
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						QC				
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID				
1	EPA-8260	08/30/10	08/31/10 03:59	KEA	MS-V12	1	BTH1973				

Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	1011976-01	Client Sampl	e Name:	1156, Composite H2	2O, 8/25/2010 1:	2:15:00PM			
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Gasoline Range Orga	nics (C4 - C12)	1100	ug/L	50	Luft	ND		1	
a,a,a-Trifluorotoluene	(FID Surrogate)	102	%	70 - 130 (LCL - UCL)	Luft			1	

			Run					
Run #	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID	
1	Luft	08/25/10	08/30/10 15:08	jjh	GC-V4	1	BTH1710	



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

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

Total Petroleum Hydrocarbons

BCL Sample ID:	1011976-01	Client Sampl	ample Name: 1156, Composite H2O, 8/25/2010 12:15:00PN						
Constituent		Result	Units	PQL	Method	MB Bias	Lab Quals	Run #	
Diesel Range Organic	cs (C12 - C24)	770	ug/L	50	Luft/TPHd	ND	A52	1	
Tetracosane (Surrogat	te)	94.9	%	28 - 139 (LCL - UCL)	Luft/TPHd			1	

			Run				QC
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	Batch ID
1	Luft/TPHd	09/07/10	09/07/10 16:02	MWB	GC-5	1	BTI0371

Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Water Analysis (Metals)

BCL Sample ID:	1011976-01	Client Sampl	e Name:	1156, Compos	site 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				QC	
Run#	Method	Prep Date	Date/Time	Analyst	Instrument	Dilution	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	



Reported: 09/08/2010 13:30

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: 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)	



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

							Control Limits			
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
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		



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

							<u>Control Lir</u>			
	Source	Source		Spike			Percent		Percent	Lab
Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
Used	client sample	: N								
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	
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	
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	
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	
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	
	MS MSD MS MSD MS MSD MS MSD MS MSD MS	Type Sample ID Used client sample: MS 1011945-01 MSD 1011945-01 MSD 1011945-01 MS 1011945-01 MS 1011945-01 MSD 1011945-01 MSD 1011945-01 MS 1011945-01 MS 1011945-01 MSD 1011945-01	Type Sample ID Result Used client sample: N MS 1011945-01 ND MSD 1011945-01 ND MS 1011945-01 ND MSD 1011945-01 ND MSD 1011945-01 ND MS 1011945-01 ND MS 1011945-01 ND MSD 1011945-01 ND MS 1011945-01 ND	Type Sample ID Result Result Used client sample: N MS 1011945-01 ND 26.050 MSD 1011945-01 ND 25.130 MS 1011945-01 ND 26.620 MSD 1011945-01 ND 24.700 MS 1011945-01 ND 10.330 MSD 1011945-01 ND 10.540 MSD 1011945-01 ND 10.230 MS 1011945-01 ND 9.5200	Type Sample ID Result Result Added Used client sample: N MS 1011945-01 ND 26.050 25.000 MSD 1011945-01 ND 25.130 25.000 MS 1011945-01 ND 26.620 25.000 MSD 1011945-01 ND 24.700 25.000 MS 1011945-01 ND 10.330 10.000 MSD 1011945-01 ND 10.400 10.000 MS 1011945-01 ND 10.540 10.000 MS 1011945-01 ND 10.230 10.000 MS 1011945-01 ND 9.5200 10.000	Type Sample ID Result Added Units Used client sample: N MS 1011945-01 ND 26.050 25.000 ug/L MSD 1011945-01 ND 25.130 25.000 ug/L MS 1011945-01 ND 26.620 25.000 ug/L MSD 1011945-01 ND 10.330 10.000 ug/L MSD 1011945-01 ND 10.400 10.000 ug/L MS 1011945-01 ND 10.540 10.000 ug/L MSD 1011945-01 ND 10.230 10.000 ug/L MS 1011945-01 ND 9.5200 10.000 ug/L	Type Sample ID Result Added Units RPD Used client sample: N MS 1011945-01 ND 26.050 25.000 ug/L MSD 1011945-01 ND 25.130 25.000 ug/L 3.6 MS 1011945-01 ND 26.620 25.000 ug/L 7.5 MS 1011945-01 ND 10.330 10.000 ug/L MSD 1011945-01 ND 10.400 10.000 ug/L MS 1011945-01 ND 10.540 10.000 ug/L MSD 1011945-01 ND 10.230 10.000 ug/L MS 1011945-01 ND 9.5200 10.000 ug/L	Type Sample ID Result Added Units RPD Recovery Used client sample: N MS 1011945-01 ND 26.050 25.000 ug/L 104 MSD 1011945-01 ND 25.130 25.000 ug/L 3.6 101 MS 1011945-01 ND 26.620 25.000 ug/L 106 MSD 1011945-01 ND 24.700 25.000 ug/L 7.5 98.8 MS 1011945-01 ND 10.330 10.000 ug/L 103 MSD 1011945-01 ND 10.400 10.000 ug/L 104 MS 1011945-01 ND 10.540 10.000 ug/L 105 MSD 1011945-01 ND 10.230 10.000 ug/L 102 MS 1011945-01 ND 9.5200 10.000 ug/L 95.2	Type Sample ID Result Added Units RPD Recovery RPD Used client sample: N MS 1011945-01 ND 26.050 25.000 ug/L 3.6 104 20 MSD 1011945-01 ND 25.130 25.000 ug/L 3.6 101 20 MS 1011945-01 ND 26.620 25.000 ug/L 106 106 MSD 1011945-01 ND 24.700 25.000 ug/L 7.5 98.8 20 MS 1011945-01 ND 10.330 10.000 ug/L 103 104 MS 1011945-01 ND 10.540 10.000 ug/L 105 105 MSD 1011945-01 ND 10.230 10.000 ug/L 102 102 MS 1011945-01 ND 9.5200 10.000 ug/L 95.2	Type Sample ID Result Added Units RPD Recovery RPD Recovery Used client sample: N 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 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 MS 1011945-01 ND 10.330 10.000 ug/L 103 76 - 114 MS 1011945-01 ND 10.400 10.000 ug/L 104 76 - 114 MS 1011945-01 ND 10.540 10.000 ug/L 105 88 - 110 MS 1011945-01 ND 10.230 10.000 ug/L 102 88 - 115 MS



Reported: 09/08/2010 13:30

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: 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)	



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

								Control Limits			
				Spike		Percent		Percent			
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD	Recovery	RPD	Lab Quals	
QC Batch ID: BTH1710											
Gasoline Range Organics (C4 - C12)	BTH1710-BS1	LCS	998.47	1000.0	ug/L	99.8		85 - 115			
					-						



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Type	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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	



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

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)	



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

							<u>Cor</u>	Control Limits			
		_		Spike		Percent	Perc				
Constituent	QC Sample ID	Type	Result	Level	Units	Recovery	RPD Reco	very RPD	Lab Quals		
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 -	100			



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

	Col						Cont	ntrol Limits			
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
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	Q03
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	



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

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		



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988
Project Manager: Jim Barnard

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

					<u> </u>					
								Control L	<u>imits</u>	·
Constituent	QC Sample ID	Туре	Result	Spike Level	Units	Percent Recovery	RPD	Percent Recovery	RPD	Lab Quals
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		



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

									Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTH1960	Used	client sample:	Y - Descr	intion: Com	nosite H2O (08/25/201	0 12:15				
Total Antimony	DUP	1011976-01	ND	ND	50311C 112O, 1	ug/L	0 12.10		20		
Total Antimony	MS	1011976-01	ND	400.82	400.00	ug/L		100	20	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		
Total Alsenic	MS	1011976-01	ND	218.70	200.00	ug/L		109	20	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		
Total Ballalli	MS	1011976-01	69.476	482.36	400.00	ug/L	1.0	103		75 - 125	
	MSD	1011976-01	69.476	472.92	400.00	ug/L	2.3	101	20	75 - 125	
Total Beryllium		1011976-01	ND	ND					20		
Total Beryllium	DUP MS	1011976-01	ND	213.85	200.00	ug/L ug/L		107	20	75 - 125	
	MSD	1011976-01	ND	213.03	200.00	ug/L ug/L	0.8	107	20	75 - 125 75 - 125	
Total Codesium				ND	200.00		0.0	100		70 120	
Total Cadmium	DUP	1011976-01 1011976-01	ND ND	209.52	200.00	ug/L		105	20	75 - 125	
	MS MSD	1011976-01	ND	209.52	200.00	ug/L ug/L	1.2	103	20	75 - 125 75 - 125	
Tatal Observious					200.00			104		70 120	
Total Chromium	DUP	1011976-01	11.678	12.719	000.00	ug/L	8.5	407	20	75 405	
	MS MSD	1011976-01 1011976-01	11.678 11.678	225.17 222.34	200.00 200.00	ug/L ug/L	1.3	107 105	20	75 - 125 75 - 125	
					200.00		1.5	103		75 - 125	
Total Cobalt	DUP	1011976-01	6.9869	ND	200.00	ug/L		405	20	75 405	
	MS	1011976-01	6.9869	217.59 217.22	200.00 200.00	ug/L	0.3	105 105	20	75 - 125	
	MSD	1011976-01	6.9869		200.00	ug/L	0.2	105		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	00	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	



Reported: 09/08/2010 13:30

Project: 1156

Project Number: 4513569988 Project Manager: Jim Barnard

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

								<u> </u>	Cont	rol Limits	
		Source	Source		Spike			Percent		Percent	Lab
Constituent	Туре	Sample ID	Result	Result	Added	Units	RPD	Recovery	RPD	Recovery	Quals
QC Batch ID: BTH1960	Used	client sample	: Y - Descr	ription: Comp	oosite H2O,	08/25/201	0 12:15	i			
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	



Reported: 09/08/2010 13:30

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

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 Work Order: LTI0122
11050 White Rock Road, Suite 110 Project Name: CL01156
Rancho Cordova, CA 95670 Project Number: 1156 Oakland
Attn: Jim Barnard 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

Beth Riley



3585 Cadillac Avenue, Suite A Costa Mesa, CA 92626 * 714-258-8610 * Fax 714-258-0921

Delta Environmental Consultant Rancho Cordova

11050 White Rock Road, Suite 110

Rancho Cordova, CA 95670

Jim Barnard

Work Order:

LTI0122

09/15/10 10:30 Received:

Reported: 10/01/10 08:53

CL01156 Project:

1156 Oakland Project Number:

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION	MATRIX	CONTAINER TYPE
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



THE LEADER IN ENVIRONMENTAL TESTING 3585 Cadillac Avenue, Suite A Costa Mesa, CA 92626 * 714-258-8610 * Fax 714-258-0921

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Rancho Cordova, CA 95670

Jim Barnard

Work Order: LTI0122

Received: 09/15/10 10:30

Reported:

10/01/10 08:53

Project: CL01156
Project Number: 1156 Oakland

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: Date: 09/27/2010 04:04 PM



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Project Number: 1156 Oakland

ANALYTICAL REPORT

		Data					Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-01 (SVW-1-1 - A EPA TO15 (Med-level) - Volatile Organic	,	oy GC/MS					Samp	led: 09/08/10 1	0:33	
Benzene	ND	ВН	ug/m3	11	22	2.3	09/21/10 08:06	MSA	AA	10I0164
Ethylbenzene	ND	ВН	ug/m3	9.9	20	2.3	09/21/10 08:06	MSA	AA	10I0164
2-Propanol	ND	BH	ug/m3	22	56	2.3	09/21/10 08:06	MSA	AA	10I0164
Toluene	ND	ВН	ug/m3	8.6	17	2.3	09/21/10 08:06	MSA	AA	10I0164
TPH as Gasoline	4700	ВН	ug/m3	1900	4700	2.3	09/21/10 08:06	MSA	AA	10I0164
m,p-Xylene	ND	ВН	ug/m3	20	40	2.3	09/21/10 08:06	MSA	AA	10I0164
o-Xylene	ND	ВН	ug/m3	9.9	20	2.3	09/21/10 08:06	MSA	AA	10I0164
Xylenes, total	ND	ВН	ug/m3	9.9	20	2.3	09/21/10 08:06	MSA	AA	10I0164
Surr: 4-Bromofluorobenzene (70-130%)	92 %	BH					09/21/10 08:06	MSA	AA	10I0164
Surr: 1,2-Dichloroethane-d4 (70-130%)	129 %	BH					09/21/10 08:06	MSA	AA	10I0164
Surr: Toluene-d8 (70-130%)	96 %	BH					09/21/10 08:06	MSA	AA	10I0164



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Project: CL01156 Project Number: 1156 Oakland

ANALYTICAL REPORT

		Data					Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-02 (SVW-1-2 - Air) EPA TO15 (Med-level) - Volatile Organic Co		oy GC/MS					Sampl	led: 09/08/10 1	0:48	
tert-Butyl alcohol	ND	ВН	ug/m3	43	92	2.0	09/30/10 07:17	MSB	AA	10I0236
1,2-Dibromoethane (EDB)	ND	ВН	ug/m3	16	31	2.0	09/30/10 07:17	MSB	AA	10I0236
1,2-Dichloroethane	ND	ВН	ug/m3	12	25	2.0	09/30/10 07:17	MSB	AA	10I0236
Ethanol	ND	ВН	ug/m3	76	190	2.0	09/30/10 07:17	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND	ВН	ug/m3	4.2	17	2.0	09/30/10 07:17	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND	ВН	ug/m3	8.5	17	2.0	09/30/10 07:17	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND	ВН	ug/m3	8.5	17	2.0	09/30/10 07:17	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND	ВН	ug/m3	7.3	15	2.0	09/30/10 07:17	MSB	AA	10I0236



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ANALYTICAL REPORT

	Data				Date					QC	
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch	
Sample ID: LTI0122-03 (SVW-2-1 - Air)						Sampled: 09/08/10 13:36					
EPA TO15 (Med-level) - Volatile Organic	Compounds b	oy GC/MS					•				
Benzene	ND	ВН	ug/m3	9900	20000	2100	09/21/10 08:44	MSA	AA	10I0164	
Ethylbenzene	35000	ВН	ug/m3	8900	18000	2100	09/21/10 08:44	MSA	AA	10I0164	
2-Propanol	ND	ВН	ug/m3	20000	51000	2100	09/21/10 08:44	MSA	AA	10I0164	
Toluene	19000	ВН	ug/m3	7800	16000	2100	09/21/10 08:44	MSA	AA	10I0164	
TPH as Gasoline	78000000	ВН	ug/m3	1700000	4200000	2100	09/21/10 08:44	MSA	AA	10I0164	
m,p-Xylene	66000	ВН	ug/m3	18000	36000	2100	09/21/10 08:44	MSA	AA	10I0164	
o-Xylene	33000	ВН	ug/m3	8900	18000	2100	09/21/10 08:44	MSA	AA	10I0164	
Xylenes, total	99000	ВН	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	ВН	ug/m3	44000	94000	2100	09/30/10 04:18	MSB	AA	10I0236	
1,2-Dibromoethane (EDB)	ND	ВН	ug/m3	16000	32000	2100	09/30/10 04:18	MSB	AA	10I0236	
1,2-Dichloroethane	ND	ВН	ug/m3	12000	25000	2100	09/30/10 04:18	MSB	AA	10I0236	
Ethanol	ND	ВН	ug/m3	78000	190000	2100	09/30/10 04:18	MSB	AA	10I0236	
tert-Amyl methyl ether (TAME)	ND	ВН	ug/m3	4300	17000	2100	09/30/10 04:18	MSB	AA	10I0236	
Ethyl tert-butyl ether (ETBE)	ND	ВН	ug/m3	8600	17000	2100	09/30/10 04:18	MSB	AA	10I0236	
Diisopropyl ether (DIPE)	ND	ВН	ug/m3	8600	17000	2100	09/30/10 04:18	MSB	AA	10I0236	
Methyl tert-butyl ether (MTBE)	ND	ВН	ug/m3	7400	15000	2100	09/30/10 04:18	MSB	AA	10I0236	



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ANALYTICAL REPORT

	·	Data					Date	·		QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-05 (SVW-3-1 - A	Air)						Sampl	led: 09/08/10 1	5:49	
EPA TO15 (Med-level) - Volatile Organic	Compounds b	y GC/MS					•			
Benzene	1100000		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	ВН	ug/m3	52000	110000	2400	09/30/10 05:08	MSB	AA	10I0236
1,2-Dibromoethane (EDB)	ND	ВН	ug/m3	19000	37000	2400	09/30/10 05:08	MSB	AA	10I0236
1,2-Dichloroethane	ND	ВН	ug/m3	15000	30000	2400	09/30/10 05:08	MSB	AA	10I0236
Ethanol	ND	ВН	ug/m3	92000	230000	2400	09/30/10 05:08	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND	ВН	ug/m3	5100	20000	2400	09/30/10 05:08	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND	ВН	ug/m3	10000	20000	2400	09/30/10 05:08	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND	ВН	ug/m3	10000	20000	2400	09/30/10 05:08	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND	ВН	ug/m3	8800	18000	2400	09/30/10 05:08	MSB	AA	10I0236
•			-							



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ANALYTICAL REPORT

		Data		·		·	Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-07 (SVW-5-1 - Air)							Sampl	led: 09/08/10 14	4:47	
EPA TO15 (Med-level) - Volatile Organic Con	npounds l	by GC/MS								
Benzene	540000	ВН	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	ВН	ug/m3	37000	92000	3700	09/21/10 10:00	MSA	AA	10I0164
Toluene	ND	ВН	ug/m3	14000	28000	3700	09/21/10 10:00	MSA	AA	10I0164
TPH as Gasoline	3.2E8	ВН	ug/m3	3100000	7600000	3700	09/21/10 10:00	MSA	AA	10I0164
m,p-Xylene	ND	ВН	ug/m3	32000	65000	3700	09/21/10 10:00	MSA	AA	10I0164
o-Xylene	ND	ВН	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
Surr: 4-Bromofluorobenzene (70-130%)	110 %	BH					09/21/10 10:00	MSA	AA	10I0164
Surr: 1,2-Dichloroethane-d4 (70-130%)	126 %	BH					09/21/10 10:00	MSA	AA	10I0164
Surr: Toluene-d8 (70-130%)	97 %	BH					09/21/10 10:00	MSA	AA	10I0164
tert-Butyl alcohol	ND	ВН	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	ВН	ug/m3	23000	45000	3700	09/30/10 05:51	MSB	AA	10I0236
Ethanol	ND	ВН	ug/m3	140000	350000	3700	09/30/10 05:51	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND	ВН	ug/m3	7800	31000	3700	09/30/10 05:51	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND	ВН	ug/m3	16000	31000	3700	09/30/10 05:51	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND	ВН	ug/m3	16000	31000	3700	09/30/10 05:51	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND	ВН	ug/m3	13000	27000	3700	09/30/10 05:51	MSB	AA	10I0236



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ANALYTICAL REPORT

		Data					Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-09 (SVW-6-1 - Air)							Sampl	led: 09/09/10 0	8:28	
EPA TO15 (Med-level) - Volatile Organic Con	npounds b	by GC/MS								
Benzene	1000000	ВН	ug/m3	24000	49000	5100	09/21/10 10:38	MSA	AA	10I0164
Ethylbenzene	240000	ВН	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	ВН	ug/m3	19000	38000	5100	09/21/10 10:38	MSA	AA	10I0164
TPH as Gasoline	4.2E8	ВН	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	ВН	ug/m3	22000	44000	5100	09/21/10 10:38	MSA	AA	10I0164
Xylenes, total	170000	ВН	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	ВН	ug/m3	110000	230000	5100	09/30/10 06:34	MSB	AA	10I0236
1,2-Dibromoethane (EDB)	ND	ВН	ug/m3	39000	78000	5100	09/30/10 06:34	MSB	AA	10I0236
1,2-Dichloroethane	ND	ВН	ug/m3	31000	62000	5100	09/30/10 06:34	MSB	AA	10I0236
Ethanol	ND	ВН	ug/m3	190000	480000	5100	09/30/10 06:34	MSB	AA	10I0236
tert-Amyl methyl ether (TAME)	ND	ВН	ug/m3	11000	43000	5100	09/30/10 06:34	MSB	AA	10I0236
Ethyl tert-butyl ether (ETBE)	ND	ВН	ug/m3	21000	43000	5100	09/30/10 06:34	MSB	AA	10I0236
Diisopropyl ether (DIPE)	ND	ВН	ug/m3	21000	43000	5100	09/30/10 06:34	MSB	AA	10I0236
Methyl tert-butyl ether (MTBE)	ND	ВН	ug/m3	18000	37000	5100	09/30/10 06:34	MSB	AA	10I0236



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ANALYTICAL REPORT

		Data					Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-02 (SVW-1-2 - Air) ASTM D1946 - Fixed Gases							Samp	led: 09/08/10 10	0:48	
Carbon dioxide	4.4		%(v/v)	0.0040	0.020	2.0	09/17/10 20:03	GC8	EI	10I0145
Carbon monoxide	ND		%(v/v)	0.00061	0.0020	2.0	09/17/10 20:03	GC8	EI	10I0145
Methane	0.00035	J,DX	%(v/v)	0.00012	0.00040	2.0	09/17/10 20:03	GC8	EI	10I0145
Oxygen	11		%(v/v)	0.061	0.40	2.0	09/17/10 20:03	GC8	EI	10I0145



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ANALYTICAL REPORT

		Data					Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-04 (SVW-2-2 - Air) ASTM D1946 - Fixed Gases							Samp	led: 09/08/10 13	3:43	
Carbon dioxide	14		%(v/v)	0.0040	0.020	2.0	09/17/10 20:22	GC8	EI	10I0145
Carbon monoxide	ND		%(v/v)	0.00060	0.0020	2.0	09/17/10 20:22	GC8	EI	10I0145
Methane	8.1		%(v/v)	0.00012	0.00040	2.0	09/17/10 20:22	GC8	EI	10I0145
Oxygen	1.3		%(v/v)	0.060	0.40	2.0	09/17/10 20:22	GC8	EI	10I0145



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ANALYTICAL REPORT

		Data					Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-06 (SVW-3-2 - Air) ASTM D1946 - Fixed Gases							Samp	led: 09/08/10 1	5:56	
Carbon dioxide	11		%(v/v)	0.0039	0.020	2.0	09/17/10 20:40	GC8	EI	10I0145
Carbon monoxide	ND		%(v/v)	0.00059	0.0020	2.0	09/17/10 20:40	GC8	EI	10I0145
Methane	38		%(v/v)	0.00012	0.00039	2.0	09/17/10 20:40	GC8	EI	10I0145
Oxygen	1.1		%(v/v)	0.059	0.39	2.0	09/17/10 20:40	GC8	EI	10I0145



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ANALYTICAL REPORT

		Data					Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-08 (SVW-5-2 - Air) ASTM D1946 - Fixed Gases							Samp	led: 09/08/10 1	4:54	
Carbon dioxide	13		%(v/v)	0.0039	0.019	1.9	09/17/10 21:26	GC8	EI	10I0145
Carbon monoxide	ND		%(v/v)	0.00058	0.0019	1.9	09/17/10 21:26	GC8	EI	10I0145
Methane	7.5		%(v/v)	0.00012	0.00039	1.9	09/17/10 21:26	GC8	EI	10I0145
Oxygen	1.4		%(v/v)	0.058	0.39	1.9	09/17/10 21:26	GC8	EI	10I0145



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10/01/10 08:53

Project: CL01156 Project Number: 1156 Oakland

ANALYTICAL REPORT

		Data					Date			QC
Analyte	Result	Qualifiers	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: LTI0122-10 (SVW-6-2 - Air) ASTM D1946 - Fixed Gases							Samp	led: 09/09/10 0	8:36	
Carbon dioxide	16		%(v/v)	0.0040	0.020	2.0	09/17/10 21:44	GC8	EI	10I0145
Carbon monoxide	ND		%(v/v)	0.00060	0.0020	2.0	09/17/10 21:44	GC8	EI	10I0145
Methane	27		%(v/v)	0.00012	0.00040	2.0	09/17/10 21:44	GC8	EI	10I0145
Oxygen	1.1		%(v/v)	0.060	0.40	2.0	09/17/10 21:44	GC8	EI	10I0145



3585 Cadillac Avenue, Suite A Costa Mesa, CA 92626 * 714-258-8610 * Fax 714-258-0921

Delta Environmental Consultant Rancho Cordova

11050 White Rock Road, Suite 110

Rancho Cordova, CA 95670 Jim Barnard Work Order: LTI0122

Received: 09/15/10 10:30

Reported: 10/01/10 08:53

Project: CL01156
Project Number: 1156 Oakland

PROJECT QUALITY CONTROL DATA

Blank

		Data					Date			QC
Analyte	Result	Qualifier	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: 10I0164-BLK1 (Blank	- Air)									
EPA TO15 (Med-level) - Volatile O	rganic Comp	ounds 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
Surr: 4-Bromofluorobenzene (70-130%)	93%						09/20/10 23:40	MSA	AA	10I0164
Surr: 1,2-Dichloroethane-d4 (70-130%)	117%						09/20/10 23:40	MSA	AA	10I0164
Surr: Toluene-d8 (70-130%)	99%						09/20/10 23:40	MSA	AA	10I0164
Sample ID: 10I0236-BLK1 (Blank	- Air)									
EPA TO15 (Med-level) - Volatile O	rganic Comp	ounds 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.

		Data					Date			QC
Analyte	Result	Qualifier	Units	MDL	RL	Dilution	Analyzed	Instrument	Analyst	Batch
Sample ID: 1010145-BLK1 (Blank - ASTM D1946 - Fixed Gases	Air)									
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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Delta Environmental Consultant Rancho Cordova

11050 White Rock Road, Suite 110

Rancho Cordova, CA 95670

Jim Barnard

LTI0122 Work Order:

09/15/10 10:30 Received:

Reported:

10/01/10 08:53

CL01156 Project: 1156 Oakland Project Number:

PROJECT QUALITY CONTROL DATA

LCS

		Data				Spike		Target		Date	QC
Analyte	Result	Qualifiers	Units	RL	Dilution	Conc	% Rec	Range	Instrument	Analyzed	Batch
Sample ID: 10I0164-BS1 (LCS -	Air)										
EPA TO15 (Med-level) - Volatile	Organic Com	pounds by G	C/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 Com	pounds by Go	C/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.

		Data				Spike		Target		Date	QC
Analyte	Result	Qualifiers	Units	RL	Dilution	Conc	% Rec	Range	Instrument	Analyzed	Batch
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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Delta Environmental Consultant Rancho Cordova

11050 White Rock Road, Suite 110

Rancho Cordova, CA 95670 Jim Barnard Work Order: LTI0122

Received: 09/15/10 10:30

Reported: 10/01/10 08:53

Project: CL01156
Project Number: 1156 Oakland

PROJECT QUALITY CONTROL DATA

LCS Dup

		Data				Spike		Target			Date	QC
Analyte	Result	Qualifiers	Units	RL	Dilution	Conc	% Rec	Range	RPD	Limit	Analyzed	Batch
Sample ID: 10I0164-BSD1 (LCS	Dup - Air)											
EPA TO15 (Med-level) - Volatilo	e Organic Con	npounds 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
Surr: 4-Bromofluorobenzene	321		ug/m3		1.00	358	90%	70 - 130			09/20/10 23:04	10I0164
Surr: 1,2-Dichloroethane-d4	230		ug/m3		1.00	211	109%	70 - 130			09/20/10 23:04	10I0164
Surr: Toluene-d8	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	e Organic Con	npounds 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.

		Data				Spike		Target			Date	QC
Analyte	Result	Qualifiers	Units	RL	Dilution	Conc	% Rec	Range	RPD	Limit	Analyzed	Batch
Sample ID: 1010145-BSD1 (LCS ASTM D1946 - Fixed Gases	Dup - Air)											
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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CL01156

Delta Environmental Consultant Rancho Cordova

11050 White Rock Road, Suite 110

Rancho Cordova, CA 95670

Jim Barnard

Work Order: LTI0122

Received:

09/15/10 10:30

Reported:

10/01/10 08:53

Project Number: 1156 Oakland

DATA QUALIFIERS AND DEFINITIONS

Project:

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)

TestAmerica Los Angeles

3585 Cadillac Ave., Suite A Costa Mesa, CA 92626 Phone 714-258-8610 Fax 714-258-0921

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Projec	roject Manager: Jim Barnard					LITOPAL						of Z cocs								
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City/State/Zip Rancho Cordoug, C495670				200	(-(C'WY)	. ()=== (٤						ê
Phone: 916-503-1279	Site C														actic		1	Ì			octo
FAX: 916-638-8385	LAB C	onta	ct:											ļ	S Si						38 S(
Project Name: 456 00 tland Site:				Turnarou										1	힏						note
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PO# C/O 1156		Rush (Specify)									1		peci					l	Seci		
Sample Identification	Sam Date		Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Oppor (Pleas Rection)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
Suw-1-1	9/8/	lo	10:33	10:47	-31	-5	HF047	[8064D	X										X		other total
50W-1-Z	9/8	(lo	10:48	6:58	-29	-5	HF09Z	A7143D							X			$\neg \dagger$			- I
5vw-Z-1	98	10	1-36	(140	-27	-5		A71645													
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SrW-3-1			3:49		<u> </u>			46999D	7						-		\neg				
SVW-3-2	98			4.01	-30	-5		A6737D					_		X				V		-
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Lab Use Only Shipper Name:			rantat gjasas Lautotakon		Opened I	9 of 33 by:	Condition:											LTI0	122A	\ \	

TestAmerica Los Angeles

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Canister Samples Chain of Custody Record



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Client Contact Information	Proje	ect Manager: 5im Barnard				(110/2)						of cocs									
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City/State/Zip/Zancho(orcova, CA 95670	<u> </u>			ده و هو	ingeni	r C O Ma									(c)				İ		6
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Sample Identification	San Date	nple e(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	TO-3	EPA 3C	EPA 25C	ASTM D-1946	Other Fre (sq. posty in notes	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
SUW-5-1	9/8	10		ごうろ	-30	-5	HF1095	A67500	X												司
50W-5-Z	9/8	10	部	3:09			HF032	469900							X	16.4					ᅦ
5VW-6-1	9	1/10	E.28	8:35	-30	-5	#F058	A68787	×												
5vW-6-Z	9/0	1/10	8:36	8:42	-24	-5	HFILA	A7157D							X						
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CLIENT:	12410A CU82	Duration of 510 A Flow setting	VFR ID: HF 047 Duration of comp.: Hrs. / mins. Flow setting: ~ 150.0 ml/min Initials:						
READING	TIME	Vac. (inches Hg) Or PRESS. (pslg)	DATE	INITIALS					
INITIAL VACUUM CHECK		30*	8/27/	0 (10)					
INITIAL FIELD VACUUM									
FINAL FIELD READING	,	·							
LAI	BORATORY CANI	STER PRESSURIZA	TION						
INITIAL VACUUM (Inches Hg / PSIA (circle	unit used))	1234	9/15/10	> 6)					
.FINAL PRESSURE (PSIA)		12.34	9/15/18	s (6)					
Pressurization Gas: <u>N</u>		·							
COMMENTS:			COMPOSITE TIME (HOURS) 15 Min. 30 Min.	FLOW RATE RANGE (ml/min) 316 – 333 158 – 166.7					
·			1 2	79.2 - 83.3 39.6 - 41.7					
			4	19.8 – 20.8					
			6	13.2 – 13.9					
			8 10	9.9 - 10.4 7.92 - 8.3					
			12	6.6 – 6.9					
			24	3.5 – 4.0					
				· · · · · · · · · · · · · · · · · · ·					

21 of 33

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CLIENT:	2410A CO8	2510A F	VFR ID: HF 00 D Duration of comp.: Hrs. / mins. Flow setting: 150.0 ml/min Initials:							
READING	TIME	Vac. (inch Or PRESS		DATE	INITIALS					
INITIAL VACUUM CHECK		30	o"	8/27/	10 (11)					
INITIAL FIELD VACUUM										
FINAL FIELD READING		, in the second								
LAE	BORATORY CAN	ISTER PRES	SSURIZA	TION						
INITIAL VACUUM (Inches Hg / PSIA (circle	unit used))	11-60	1_	9/15/10	©^					
FINAL PRESSURE (PSIA)		23.5		9/15/10) Gî					
Pressurization Gas: 1				COMPOSITE	FLOW RATE RANGE					
COMMENTS:				TIME (HOURS) 15 Min. 30 Min. 1 2 4 6 8 10 12 24	(ml/mln) 316 - 333 158 - 166.7 79.2 - 83.3 39.6 - 41.7 19.8 - 20.8 13.2 - 13.9 9.9 - 10.4 7.92 - 8.3 6.6 - 6.9 3.5 - 4.0					

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CLIENT:	24TOA C082	Duration	VFR ID: HF 098 Duration of comp.: Hrs. / mins. Flow setting: ~ 150 . 0 _ ml/min Initials:							
READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS						
INITIAL VACUUM CHECK		30"	8/27/10							
INITIAL FIELD VACUUM										
FINAL FIELD READING										
LAE INITIAL VACUUM (Inches Hg / PSIA (circle		ISTER PRESSURIZA	9/15/10	(E)						
FINAL PRESSURE (PSIA)		24.76	9/15/10	<i>b</i> `						
Pressurization Gas: W			COMPOSITE TIME	FLOW RATE RANGE (ml/mln)						
COMMENTS:			(HOURS) 15 Min. 30 Min. 1 2 4 6 8 10 12 24	316 - 333 158 - 166.7 79.2 - 83.3 39.6 - 41.7 19.8 - 20.8 13.2 - 13.9 9.9 - 10.4 7.92 - 8.3 6.6 - 6.9 3.5 - 4.0						
	:									

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CLIENT: DELTA CANISTER SERIAL #: A67 DATE CLEANED: A081310B C08 CLIENT SAMPLE #: SITE LOCATION:	2410A COS	Duration Plow se	VFR ID: HFO74 Duration of comp.: Hrs. / mins. Flow setting: ~ 150.0 _ ml/min Initials:							
READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS						
INITIAL VACUUM CHECK		30"	8/27/10							
INITIAL FIELD VACUUM										
FINAL FIELD READING										
LAE	BORATORY CAN	ISTER PRESSURI	ZATION							
INITIAL VACUUM (Inches Hg / PSIA (circle	unit used))	12.28	9/15/10	0 0						
FINAL PRESSURE (PSIA)		2450	9/15/1	o 5						
Pressurization Gas:			COMPOSITE TIME (HOURS) 15 Min. 30 Min. 1 2 4 6 8 10 12 24	FLOW RATE RANGE (ml/mln) 316 333 158 166.7 79.2 83.3 39.6 41.7 19.8 20.8 13.2 13.9 9.9 10.4 7.92 8.3 6.6 6.9 3.5 4.0						
	•			0,0						

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CLIENT: DELTA			VFR ID: #F 133						
CANISTER SERIAL #:A699	CIPI		Duration of	comp.:	THrs. / mins.				
DATE CLEANED: A D813103 C08	2440A CO82	510A	Flow cattin	g: ~150.0	ml/min				
				(3)					
CLIENT SAMPLE #:			Initials:	<u> </u>					
SITE LOCATION:									
		!							
READING	TIME		inches Hg) ESS. (psig)	DATE	INITIALS				
INITIAL VACUUM CHECK		-	30°	8/27/	0 10				
INITIAL FIELD VACUUM									
FINAL FIELD READING									
LAE	BORATORY CAN	STER PF	RESSURIZA	TION					
INITIAL VACUUM (Inches Hg / PSIA (circle	unit used))	12	287	9/15/15	<i>D'</i>				
.FINAL PRESSURE (PSIA)		20	5.08	9/15/10	19'				
Pressurization Gas:									
				COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)				
COMMENTS:		<u></u>		15 Min.	316 – 333				
				30 Min.	158 – 166.7				
				1	79.2 – 83.3				
-				2	39.6 - 41.7				
				4	19.8 – 20.8 13.2 – 13.9				
				6	9.9 – 10.4				
				8 10	7.92 – 8.3				
			·	12	6.6 - 6.9				
				24	3.5 – 4.0				

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CLIENT: DELTA CANISTER SERIAL #:A 6 DATE CLEANED: A081310B C08 CLIENT SAMPLE #: SITE LOCATION:	2410A CO82	Durat	VFR ID: HFO46 Duration of comp.: ————————————————————————————————————							
READING	TIME	Vac. (Inches Hg) Or PRESS. (psig		INITIALS						
INITIAL VACUUM CHECK		30"	8/27/	0 1						
INITIAL FIELD VACUUM										
FINAL FIELD READING										
LAE	BORATORY CANI	STER PRESSU	RIZATION							
INITIAL VACUUM (Inches Hg / PSIA (circle	unit used))	12.24	9 15/1	0 6						
.FINAL PRESSURE (PSIA)		24.12	9/15/1	o g						
Pressurization Gas: $\cancel{\mathcal{N}}\cancel{\mathcal{L}}$			COMPOSITE	FLOW RATE RANGE						
COMMENTS:			TIME (HOURS) 15 Min. 30 Min.	(ml/mln) 316 – 333 158 – 166.7						
			1 2 4	79.2 - 83.3 39.6 - 41.7 19.8 - 20.8						
			6 8 10	13.2 - 13.9 9.9 - 10.4 7.92 - 8.3						
			12 24	6.6 - 6.9 3.5 - 4.0						

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CLIENT: DELTA CANISTER SERIAL #: ACT OF THE CLIENT SAMPLE #: SITE LOCATION:	VFR ID: Duration of Flow setting Initials:							
READING	TIME	Vac. Or PR	(inches Hg) ESS. (psig)	DATE	INITIALS	INITIALS		
INITIAL VACUUM CHECK		_	30°	8/27/1	0			
INITIAL FIELD VACUUM								
FINAL FIELD READING		-						
LABORATORY CANISTER PRESSURIZATION INITIAL VACUUM (Inches Hg / PSIA (circle unit used)) 1260 9/15/10 6								
.FINAL PRESSURE (PSIA)			8.22	9/15/1	२ ७			
Pressurization Gas:				COMPOSITE	FLOW RATE RANGE	ELOW RATE BANGE		
COMMENTS:				TIME (HOURS) 15 Min. 30 Min.	(ml/min) 316 - 333 158 - 166.7 79.2 - 83.3	(ml/min) 316 - 333 158 - 166.7 79.2 - 83.3		
				2 4 6 8	39.6 – 41.7 19.8 – 20.8 13.2 – 13.9 9.9 – 10.4	19.8 - 20.8 13.2 - 13.9 9.9 - 10.4		
				10 12 24	7.92 - 8.3 6.6 - 6.9 3.5 - 4.0	6.6 - 6.9		

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CLIENT: DELTA CANISTER SERIAL #: A690 DATE CLEANED: A081310B C08 CLIENT SAMPLE #: SITE LOCATION:		Duration o	VFR ID: HF 062 Duration of comp.: Hrs. / mins. Flow setting: 150.0 ml/min Initials:					
READING	TIME	Vac. (Inches Hg) Or PRESS. (pslg)	DATE	INITIALS				
INITIAL VACUUM CHECK	NITIAL VACUUM CHECK		8/27/1	0 1				
INITIAL FIELD VACUUM								
FINAL FIELD READING								
LABORATORY CANISTER PRESSURIZATION								
INITIAL VACUUM (inches Hg / PSIA (circle	12.48	9/15/15	i i					
.FINAL PRESSURE (PSIA)	24.08	9/15/10						
Pressurization Gas:			COMPOSITE	FLOW RATE RANGE				
COMMENTS:			TIME (HOURS) 15 Min. 30 Min. 1 2 4 6 8 10	(ml/mln) 316 – 333 158 – 166.7 79.2 – 83.3 39.6 – 41.7 19.8 – 20.8 13.2 – 13.9 9.9 – 10.4 7.92 – 8.3 6.6 – 6.9				
	·	·	24	3.5 – 4.0				

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CLIENT:		Duration of Flow settin	VFR ID: Hrs. / mins. Duration of comp. : Hrs. / mins. Flow setting: 150 . 0 ml/min Initials:				
READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS			
INITIAL VACUUM CHECK		30°	8/27/1				
INITIAL FIELD VACUUM							
FINAL FIELD READING							
			TION!				
LAE	BORATORY CANE	STER PRESSURIZA	TION				
INITIAL VACUUM (Inches Hg / PSIA (circle	13.01	9/15/10 0					
FINAL PRESSURE (PSIA)	26.47	4/15/13	5 6'				
Pressurization Gas: W1							
COMMENTS:			COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/min)			
O O I I I I I I I I I I I I I I I I I I			15 Min.	316 - 333			
		. ,	30 Min.	158 – 166.7 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			
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CLIENT: DELTA			VFR ID: Hrs. / mins.					
	570		-	į				
DATE CLEANED: A 081310B 60	\$2410H CU84		ng: <u>~ 150 , 0</u>	ml/min				
CLIENT SAMPLE #:		Initials: _	KU)					
SITE LOCATION:			THROUGH					
			T					
READING	TIME	Vac. (inches Hg) Or PRESS. (psig)	DATE	INITIALS				
INITIAL VACUUM CHECK		30°	8/27/1	0 1				
INITIAL FIELD VACUUM								
FINAL FIELD READING		·						
LA	ABORATORY CAN	ISTER PRESSURIZA	ATION					
INITIAL VACUUM (Inches Hg / PSIA (circ	le unit used))	12.25	9/15/10 (5)"					
FINAL PRESSURE (PSIA)	24.68	9/15/1	0 0					
Pressurization Gas:								
.			COMPOSITE TIME (HOURS)	FLOW RATE RANGE (ml/mln)				
COMMENTS:			15 Min.	316 - 333				
			30 Min.	158 – 166.7				
			1	79.2 - 83.3 39.6 - 41.7				
		<u> </u>	2 4	19.8 – 20.8				
	ſ		6	13.2 – 13.9				
	<u> </u>		8	9.9 – 10.4				
	•		10	7.92 - 8.3				
	<u> </u>		12 6.6 – 6.9					
				3.5 - 4.0				

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CANISTER QC CERTIFICATION



Certification Type:	TO-15 ML					
Date Cleaned/Batch Date of QC Data File Number	C082510A (-75-200 M130829 (MSA)					
	CANISTER ID NUMBERS					
* 1806D'	A6990DB					
A6767D4	A6750D+					
A6987D	A7143D 2					
A 6878D9	A6999D					
ATISTD	5038D					
A7164D3	A6737 D6					
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.						
Mo	8/25764					
Reviewed By:	Date:					

Page 1

Data File: \\TAILAX65\MSA_C\CHEM\MSA.I\100825.B\MB08251.D

Report Date: 25-Aug-2010 16:24

TestÁmerica 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\T014A.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

							CONCENTRA	TIONS
	·	QUANT SIG					ON-COLUMN	FINAL
C	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppbv)	(ppbv)
=	######################################	====	==	3222E		=======		*****
*	58 Bromochloromethane	130	9.232	9.251	(1.000)	896853	50.0000	
ş	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	
ş	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

Data File: \\TAILAX65\MSA_C\ohem\MSA.i\100825.B\MB08251.D

Date : 25-AUG-2010 15:59

Client ID: 1806D

Sample Info: BLANK, 1806D, , METHOD BLANK

Column phase: J&W DB-624

Instrument: MSA.i

Operator: AA

Column diameter: 0.53

