



76 Broadway
Sacramento, California 95818

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11:08 am, Aug 25, 2009

Alameda County
Environmental Health

August 24, 2009

Barbara Jakub
Alameda County Health Agency
1131 Harbor Bay parkway, Suite250
Alameda, California 94502-577

Re: ***Report for Hydrocarbon Affected Soil and Groundwater Results***
76 Service Station # 3737 RO 067
1400 Powell Street
Emeryville, CA

Dear Ms. Jakub,

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

If you have any questions or need additional information, please call me at (916) 558-7666.

Sincerely,

Terry L. Grayson
Site Manager
Risk Management & Remediation

August 18, 2009

Mr. Barbara Jakub
Alameda County Health Agency
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

cc: Mr. Terry Grayson, ConocoPhillips (electronic copy)



**REPORT OF CPT DELENIATION OF FUEL
HYDROCARBON AFFECTED SOIL AND GROUNDWATER**

76 SERVICE STATION NO. 3737

1400 Powell Street
Emeryville, CA
AOC 3034
RO# 0067
DELTA PROJECT C103737051

Prepared for:

ConocoPhillips Company
76 Broadway
Sacramento, CA 95818

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- Figure 3a – Site Plan, Groundwater to 35 feet
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- Figure 4 – Site Plan w/ Historical Configuration
- Figure 5a – Geologic Cross Section A-A', CPT Data
- Figure 5b – Geologic Cross Section A-A', Analytical Data
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ATTACHMENTS

- Appendix A – ACHCSA letter dated 5/08/09
- Appendix B – Alameda Co. Public Works Agency Permits
- Appendix C – Laboratory Analytical Results and Chain-of-Custody Documents
- Appendix D – CPT Boring Logs

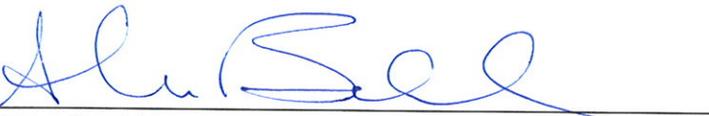
TABLES

- Table I – Soil Analytical Results
- Table II - Groundwater Analytical Results

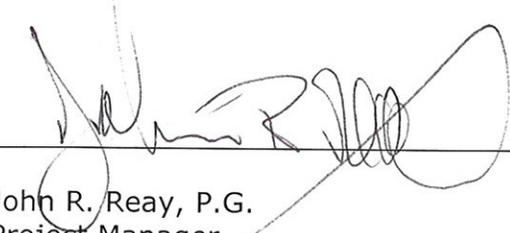
CERTIFICATION

This report was prepared under the supervision and direction of the undersigned California Professional Geologist.

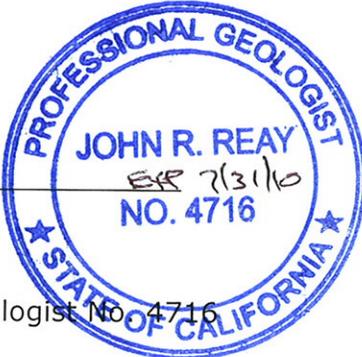
Delta Consultants



Alan Buehler
Staff Geologist



John R. Reay, P.G.
Project Manager
California Registered Professional Geologist No. 4716



1.0 DECLARATION

On behalf of ConocoPhillips, Delta has prepared this report for the 76 Service Station No. 3737 (site) located at 1400 Powell Street, Emeryville, California (Figure 1). Approval for this work was granted in an Alameda County Health Care Services Agency (ACHCSA) letter dated May 8, 2009 (Appendix A). The purpose of this report is to provide a summary of Cone Penetrometer Testing (CPT) and soil and groundwater sampling (Figure 2) at the subject site and provide recommendations for additional activities as may be needed at the site and adjacent properties.

2.0 SITE BACKGROUND AND DESCRIPTION

2.1 SITE BACKGROUND

The site is located at 1400 Powell Street, Emeryville, California and is currently an active service station (Figure 2). Properties in the immediate site vicinity are predominantly residential and commercial. Local topography is generally flat with an average site elevation of approximately 15 feet above mean sea level (MSL). Site soils consist of lean clays with interbedded lenses of sandy clay and gravelly clay. Groundwater beneath the site was encountered during this investigation at approximately 4 to 6 feet below ground surface (bgs).

2.2 PREVIOUS ASSESSMENT

Between 1917 and 1964: Union Oil Company of California operated a Distribution Plant that was bounded by Powell Street to the south, 59th Street to the north, Peladeau Street to the west, and Hollis Street to the east. This distribution facility contained numerous above ground and underground storage tanks (ASTs and USTs), a garage along Hollis Street and an auto repair shop along Peladeau Street (Treadwell & Rollo, 2007). The entire gasoline service station was constructed on what was Union Oil Company of California Distribution Plant property. On the portion of the former Distribution Plant that the subject site currently occupies, there were a total of eight ASTs containing oil and gasoline on the west side, and an oil warehouse, oil pump, and asphalt staging area on the east side. Figure 3 illustrates the approximate locations of these structures, based on a review of the Sanborn Map (Treadwell & Rollo, 2005 - Appendix B). The eight former ASTs located on the western portion of the Site had a combined storage capacity of 624,000 gallons, and were installed within the former berm as presented in Figure 3. The lateral extent of this former bermed area includes the location of the three existing USTs as well as a majority of the existing underground piping and dispensers currently at the site.

January 5, 2007: According to Treadwell & Rollo's Site Management Completion report for 5885 Hollis Street, Emeryville, dated January 5, 2007, elevated levels of hydrocarbons were observed in soils of Emerystation East, located north of the subject site. Soil samples collected from soil borings TR-25 and TR-28, located approximately 5 feet north of the Site's northern property line, contained maximum concentrations of 2,100 milligrams per kilogram (mg/Kg) of total petroleum hydrocarbons as gasoline (TPH-g) and 280 mg/Kg of total petroleum hydrocarbons as motor oil (TPH-mo), respectively, at 6 feet bgs. A grab groundwater sample collected from TR-25 contained

150,000 micrograms per liter (ug/L) TPH-g and 2,500 ug/L benzene. The entire Emerystation East property was excavated to a total depth of approximately 12 to 15 fbg (feet below grade) to prepare the foundation of the building that currently occupies the site. Confirmation soil samples collected in the area just to the north of the subject site on the Emerystation East property indicated that TPH-g and TPH-mo were detected at maximum concentrations of 10 mg/Kg and 6.0 mg/Kg, respectively. Based on these results, it would appear that the majority of soil contamination in the vadose zone that could contribute significant contaminants to groundwater in the vicinity immediately north of the subject site has been removed. During the excavation of the foundation for the Emerystation East building, three dewatering wells were installed and sampled on a weekly basis. Dewatering well DW-14, located in the southwestern corner of the property, had high levels of TPH-g, total petroleum hydrocarbons as diesel (TPH-d), and benzene, toluene, ethyl benzene, and total xylenes (BTEX) throughout the course of the excavation work. The maximum concentrations of TPH-g and TPH-d detected in extracted groundwater were 1,800 ug/L and 370 ug/L, respectively (Treadwell & Rollo, 2007).

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

September 10, 1997: Soil gas survey conducted by Pacific Environmental Group Inc.

May 7, 1999: Under the supervision of TRC, Norman and Norman completed the removal of product piping associated with the former fuel dispenser islands. Immediately following the piping removal soil samples D-1, D-2, PL-1, PL-2, PL-3, and PL-4 were collected at selected points along the former product line trench and at the former dispenser islands, at depths ranging from 1.5 to 4.0 bgs (Figure 2). The samples were analyzed for total extractable hydrocarbons, total purgeable hydrocarbons, benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE) by EPA Methods 8015/8020. Purgeable hydrocarbons were reported in concentrations ranging from 39 mg/Kg (PL-4) to 1,200 mg/Kg (PL-2). Benzene was reported in concentrations ranging from 2.4 mg/Kg (PL-2) to 0.37 mg/Kg (PL-1). MTBE was reported in concentrations ranging from 1.1 mg/Kg (PL-4) to 0.074 mg/Kg (D-2). Extractable hydrocarbons were reported in concentrations ranging from 710 mg/Kg (PL-2), to 36 mg/Kg (D-2).

May 11, 1999: Norman and Norman under the supervision of TRC and Robert Weston with Alameda County Environmental Health Services, over excavated soil from below the former northwest dispenser and product piping. Approximately six cubic yards of soil was removed. Soil sample PL-2 was collected from below the excavation, at a depth of 4 bgs. Analytical results from PL-2 indicated TPH-g (40 mg/Kg), TPH-d (530 mg/Kg), benzene (0.48 mg/Kg), and MTBE (0.91 mg/Kg). In addition a groundwater sample (TCW-1) was collected and analyzed for TPH-g, TPH-d, BTEX, and MTBE by EPA Methods 8015/8020. Analytical results from TCW-1 indicated TPH-g (4,400 ug/L), TPH-d (2,600 ug/L), benzene (520 ug/L), and MTBE (1,300 ug/L).

May 24, 1999: One single-walled 550-gallon steel waste oil UST, located west of the station building was removed under the direction of Susan Hugo with ACHCS and supervision of TRC (Figure 2). Soil samples WO-4 through WO-7 and WO-1 were collected from the bottom and sidewalls of the excavation at depths of 7.5 and 10 bgs

and analyzed for TPH-g, TPH-d, total petroleum hydrocarbons as motor oil (TPH-mo), BTEX, and MTBE. Analytical results generated by this event indicated TPH-g ranging from 470 mg/Kg (WO-5), to 1.4 mg/Kg (WO-1). TPH-d from 1,100 mg/Kg (WO-4, WO-6) to 51 mg/Kg (WO-1). Benzene at 0.30 mg/Kg (WO-7). Motor oil ranging from 1,100 mg/Kg (WO-6) to 220 mg/Kg (WO-7). MTBE was below laboratory reporting limits in soils for this event.

November 6, 2007: Site transferred to Delta Consultants.

2.3 SENSITIVE RECEPTOR SURVEY

A receptor survey has not been conducted. The completion of a sensitive receptor survey is proposed to identify water supply wells (municipal, agricultural and domestic) within a one-half mile radius of the site. Delta will also identify surface water bodies (streams, ponds, etc.), schools, daycare centers, and hospitals within 1000 feet of the site.

2.4 HYDROGEOLOGIC SITE CONDITIONS

The site is located within the East Bay Plain Subbasin, which is within the Santa Clara Valley Groundwater Basin, which is within the San Francisco Bay Hydrologic Region. The East Bay Plain Subbasin is a northwest trending alluvial plain bounded on the north by San Pablo Bay, on the east by the contact with Franciscan Basement rock, and on the south by the Niles Cone Groundwater Basin. The East Bay Plain Basin extends beneath San Francisco Bay to the west. Numerous creeks including San Pablo Creek, Wildcat Creek, San Leandro Creek, and San Lorenzo Creek flow from the western slope of the Coast Ranges westward across the plain and into the San Francisco and San Pablo bays (CRWQCB 1999). Average precipitation in the subbasin ranges from about 17 inches in the southeast to greater than 25 inches along the eastern boundary, most of which occurs between the months of November and March.

The East Bay Plain Subbasin aquifer system consists of unconsolidated sediments of Quaternary age. Deposits include the early Pleistocene Santa Clara Formation, the late Pleistocene Alameda Formation, the early Holocene Temescal Formation, and Artificial Fill. The cumulative thickness of the unconsolidated sediments is about 1,000 feet (CRWQCB 1999). The average specific yield of the basin was calculated to be about 6% (DWR 1994).

Early Pleistocene Santa Clara Formation. The Santa Clara Formation consists of alluvial fan deposits inter-fingered with lake, swamp, river channel, and flood plain deposits. The formation ranges from 300 to 600 feet thick (CRWQCB 1999).

Late Pleistocene Alameda Formation. The Alameda Formation includes a sequence of alluvial fan deposits bounded by mud deposits on top and bottom of the formation. The formation was deposited primarily in an estuarine environment and ranges from 26 to 245 feet thick (CRWQCB 1999).

Early Holocene Temescal Formation. The Temescal Formation is an alluvial deposit consisting primarily of silts and clays with some gravel layers. The formation ranges from 1 to 50 feet thick (CRWQCB 1999).

Artificial Fill is found mostly along the bay front and wetlands areas and is derived primarily from dredging as well as quarrying, construction, demolition debris, and municipal waste. The fill ranges from 1 to 50 feet with the thickest deposits found nearer the Bay (CRWQCB 1999).

Historic water levels in the deep (more than 500 feet) aquifer in the basin have varied between -10 to -140 feet mean sea level since the early 1950's. The low water level was reached in about 1962. Shallower aquifers have had a much less pronounced water level decline. The historical low water level for aquifers at a depth of about 250 feet bgs since 1950 has been about -30 feet msl. Water levels rose about 5 feet per year between 1965 and 1980. Water levels have been rising continuously since then, but at a less rapid rate. As of 2000 water levels are very near surface in all aquifers.

3.0 CPT TESTING

3.1 PREFEILD ACTIVITIES

Before commencing field operations Delta obtained necessary access agreements and prepared a site-specific Health and Safety Plan in accordance with state and federal requirements for use during site assessment activities. In addition, drilling permits for the proposed CPT borings were obtained from the Alameda County Public Works Agency (Appendix B). Prior to drilling Underground Service Alert (USA North) was notified as required and a private utility locating service visited the site to clear the proposed boring locations for underground utilities. The proposed boring locations were further cleared by air knife/vacuum to a depth of 5 feet bgs avoid damage to possible underground utilities.

3.2 SCOPE OF FIELD ACTIVITIES

Field activities were conducted from July 18 to 19 and from July 25 to 26, 2009. Field work consisted of seven CPT tests advanced under permit and in accordance with California well standards Bulletin 74-90 by a C-57 licensed drilling contractor. Each of the seven locations consisted of three boreholes: one for the CPT, one for groundwater sampling, and one for soil sampling. All borings were advanced to a total depth of 60 feet bgs. Upon completion all boreholes were immediately abandoned with cement grout via tremmie pipe to surface.

3.3 SOIL SAMPLING AND LABORATORY ANALYSIS

Soil samples were collected from field determined depths from each location based on field review of CPT log results. All soil samples were collected utilizing direct push cone samplers loaded with 1.5 inch by 6 inch pre-cleaned brass tubes. The ends of filled brass tubes were capped with Teflon[®] sheets and sealed with polyethylene end-caps. Each sample tube was affixed with a unique identification label and placed directly on ice in a cooler pending delivery to the laboratory. Each sample was tested for Total

Petroleum Hydrocarbons as gasoline (TPH-g), Total Petroleum Hydrocarbons as diesel (TPH-d) by method 8015M and Benzene, 1,2-Dibromoethane, 1,2-Dichloroethane, Ethylbenzene, Methyl t-butyl ether, Toluene, t-Amyl Methyl ether, t-Butyl alcohol, Diisopropyl ether, Ethanol and Ethyl t-butyl ether by method 8260B.

3.4 GROUNDWATER SAMPLING AND LABORATORY ANALYSIS

Groundwater samples were collected with a reusable $\frac{3}{4}$ in stainless steel bailer. The bailer was decontaminated by steam cleaning between each sample event. Samples were transferred to laboratory in prepared sample bottles, affixed with a unique identification label, and placed on ice for preservation for delivery to laboratory. Each sample was tested for Total Petroleum Hydrocarbons as gasoline (TPH-g), Total Petroleum Hydrocarbons as diesel (TPH-d) by method 8015M and Benzene, 1,2-Dibromoethane, 1,2-Dichloroethane, Ethylbenzene, Methyl t-butyl ether, Toluene, t-Amyl Methyl ether, t-Butyl alcohol, Diisopropyl ether, Ethanol and Ethyl t-butyl ether by method 8260B.

3.5 SAMPLE POINT SURVEY

A survey the CPT sampling points was performed on August 11, 2009 by Morrow Surveying. The survey data will be submitted to appropriate agencies upon receipt.

3.6 DISPOSAL OF DRILL CUTTINGS AND WASTEWATER

Drill cuttings, purge and decontamination water generated during the sampling event were placed in properly labeled 55-gallon Department of Transportation (DOT) approved steel drums and temporarily stored on the property. Representative samples of drill cuttings and wastewater were collected and submitted under chain-of-custody (Appendix C) to a California-certified laboratory and analyzed for pre-disposal waste characterization profiling. Waste drums are currently pending transportation and disposal at a ConocoPhillips (COP) approved facility by Belshire Environmental Services, Inc.

3.7 SUMMARY OF FINDINGS

It was the purpose of this phase of investigation was to make an initial determination, via CPT technology, of the lateral and vertical extent of potential soil and groundwater contamination as a result of commercial fuel dispensing operations at this site. CPT borings were conducted at seven selected locations (Figure 2), to a depth of 60 fbg. First encountered groundwater was observed between 4 fbg and 6 fbg.

Soil and groundwater sampling depths were determined in the field based on review of CPT boring data to reflect stratigraphic/geologic conditions most likely to promote concentration of contaminants of concern such as potential aquifers, or clay/sand contacts or transitions. Stratigraphy encountered was characterized by brown to gray lean clays interbedded with gravelly clay and sandy clay lenses as depicted in crosssections A-A' and B-B' (Figures 4 and 5) which may be correlative with the Early Holocene Temescal Formation. Sandy clay and gravelly clay strata encountered above approximately 50 fbg did not consistently produce water in sufficient quantity to sample

which was defined as less than 40 ml (milliliters) of water in 30 minutes. Water was produced consistently only in clayey sands and gravels below approximately 50 fbg.

Fuel hydrocarbons were detected in soils at low to non-detect levels. Benzene was not detected in soils at or above laboratory detection limits at any sampled location. MTBE was not detected in soils at or above laboratory detection limits at any sampled location. Gasoline range hydrocarbons were detected above laboratory reporting limits at four sampled locations in concentrations ranging from 570 mg/Kg (CPT-1@7 fbg) to 1.1 mg/Kg (CPT-7@52 fbg). Diesel range hydrocarbons were detected above laboratory reporting limits at six sampled locations in concentrations ranging from 5.6 mg/Kg (CPT-1@7 fbg) to 2 mg/Kg (CPT-1@50 fbg). Ethylbenzene was also detected in soils ranging from 1.1 mg/Kg (CPT-1@7 fbg) to below laboratory reporting limits.

Fuel hydrocarbons were detected in groundwater at moderate to non-detect levels. Benzene was detected above laboratory reporting limits in groundwater at three sampled locations at concentrations ranging from 42 ug/L (CPT-1@6-9 fbg) to 1.4 ug/L (CPT-4@52-55 fbg). MTBE was detected above laboratory reporting limits at three sampled location in concentrations ranging from 1.3 ug/L (CPT-4@20-23 fbg) to 0.96 ug/L (CPT-5@28-31 fbg). Gasoline range hydrocarbons were detected above laboratory reporting limits at four sampled locations in concentrations ranging from 690 ug/L (CPT-1@6-9 fbg) to 56 ug/L (CPT-4@20-23 fbg). Diesel range hydrocarbons were detected above laboratory reporting limits at nine sampled locations in concentrations ranging from 630 ug/L (CPT-5@28-31 fbg) to 50 ug/L (CPT-6@51-54 fbg).

Among those fuel hydrocarbons detected in groundwater at or above laboratory reporting limits benzene, gasoline, and diesel were in concentrations that exceed the Central Valley Regional Water Quality Control Board's; *A Compilation of Water Quality Goals*, July 2008.

4.0 RECOMMENDATIONS

Contaminants of concern laterally appear in low to moderate concentrations in groundwater primarily in the northeast corner of the subject property in the vicinity of CPT-1 while lesser concentrations are noted in the southwest portion of the property in the vicinity of CPT-4 and the current UST installation. As indicted by groundwater analytical results obtained from CPT-1, CPT-4, CPT-5 and CPT 7, the vertical extent of the contaminant plume may not be fully defined. In addition, the apparent lateral and vertical distribution of hydrocarbon contaminants in groundwater as indicated by this phase of investigation does not appear to be fully defined or correlative to previous investigative results. Direction of groundwater flow is unknown. To resolve these questions and issues the following actions are recommended:

- Drill and construct **three nested groundwater monitoring wells** on site to establish depth specific groundwater gradient (vertical and horizontal), direction of flow and vertical extent of the contaminant plume. In order to define vertical hydrogeologic conditions these wells should be designed and constructed to allow depth specific sampling of groundwater from approximately peizometric surface to 20 feet below grade, and from approximately 50 feet to 60 feet below grade.

5.0 REPORTING

Anticipated schedule of work includes:

- Required electronic submittals will be uploaded to the State Geotracker and Alameda County databases.

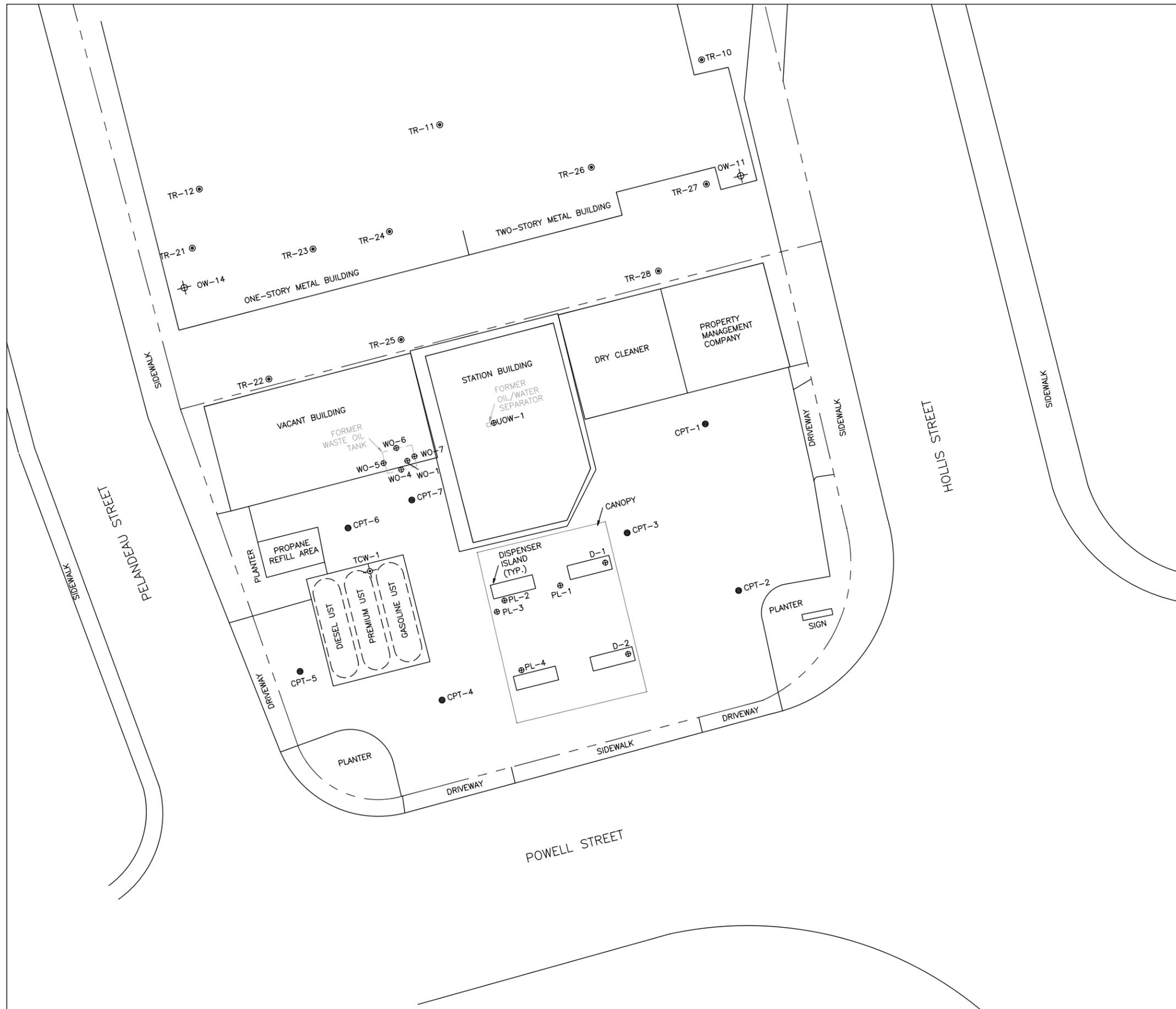
6.0 REMARKS

The recommendations contained in this report represent Delta's professional opinions based upon the currently available information and are arrived at in accordance with currently acceptable professional standards. This report is based upon a specific scope of work requested by the client. The Contract between Delta and its client outlines the scope of work, and only those tasks specifically authorized by that contract or outlined in this report will be performed. This report is intended only for the use of Delta's Client and anyone else specifically listed on this report. Delta will not and cannot be liable for unauthorized reliance by any other third party. Other than as contained in this paragraph, Delta makes no express or implied warranty as to the contents of this report. If you have questions regarding this report, please contact John Reay at (916) 503-1260 or Terry Grayson at (916) 558-7666.

Sincerely,

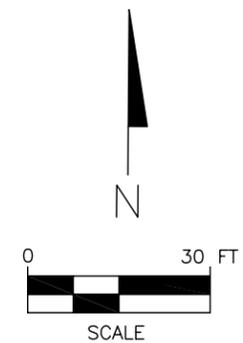
DELTA CONSULTANTS

FIGURES



LEGEND:

- TANK CAVITY WELL
- APPROXIMATE LOCATION OF DEWATERING WELL (OFFSITE)
- APPROXIMATE BORING LOCATION BY TREADWELL AND ROLLO (OFFSITE), 2000-2005
- HISTORICAL BORING LOCATION (ONSITE)
- CPT BORING LOCATION, 2009



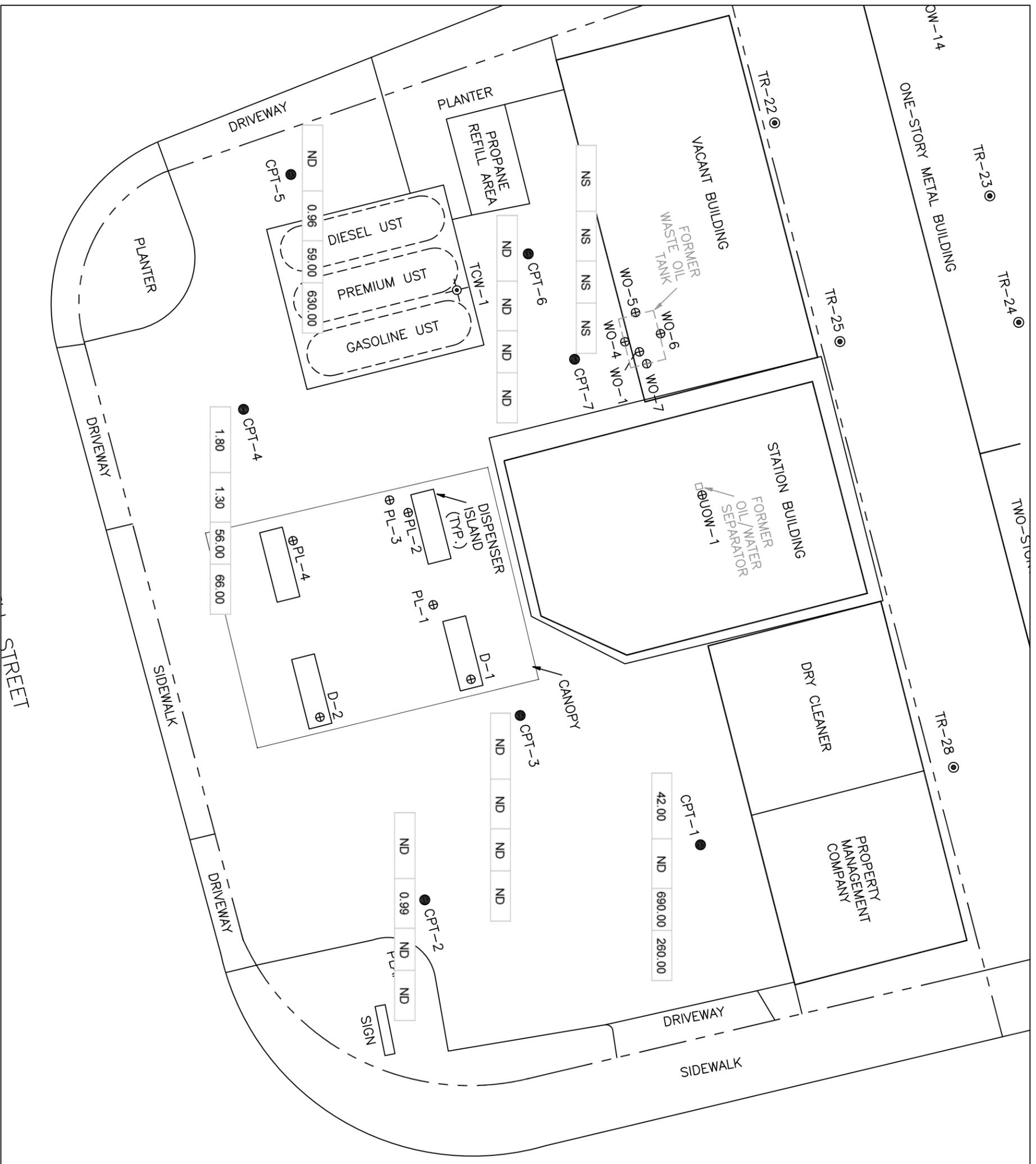
SITE PLAN ADAPTED FROM A MAP CREATED BY TRC FROM UNION OIL CO. SITE PLAN (1979).

**FIGURE 2
SITE PLAN**

FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO. C103737	PREPARED BY AB	DRAWN BY JH
DATE 08/04/09	REVIEWED BY JR	FILE NAME 76-3737





LEGEND:

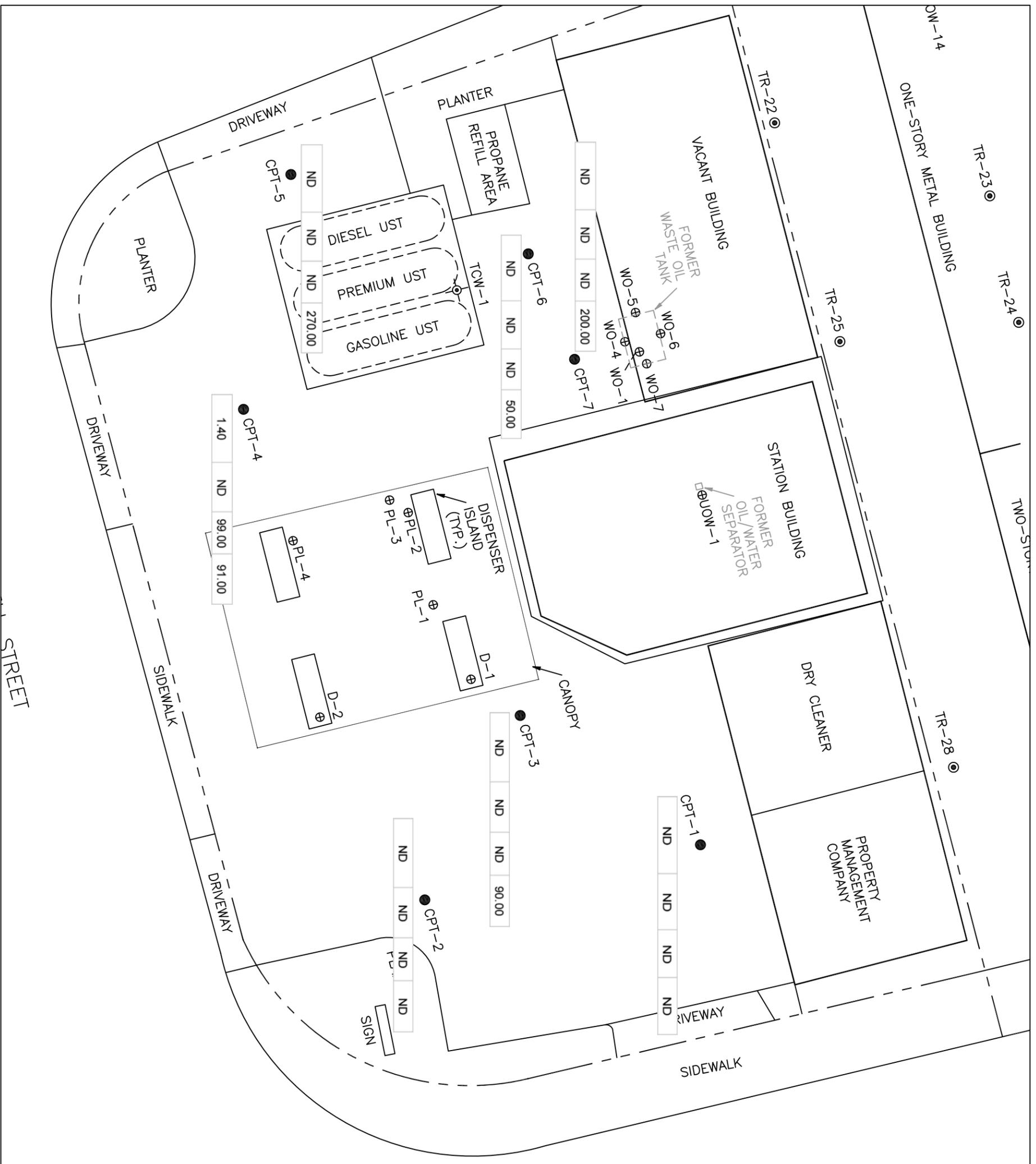
- ⊕ TANK CAVITY WELL
 - ⊕ APPROXIMATE LOCATION OF DEWATERING WELL (OFFSITE)
 - ⊙ APPROXIMATE BORING LOCATION BY TREADWELL AND ROLLO (OFFSITE), 2000-2005
 - ⊕ HISTORICAL BORING LOCATION (ONSITE)
 - CPT BORING LOCATION, 2009
- Groundwater analytical results (ug/L):
Benzene, MTBE, TPH-g, TPH-d

SITE PLAN ADAPTED FROM A MAP CREATED BY TRC FROM UNION OIL CO. SITE PLAN (1979).

FIGURE 3a
SITE PLAN

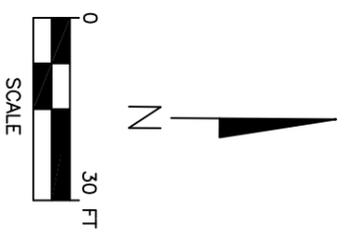
Groundwater to 35 feet
FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO. C103737	PREPARED BY AB	DRAWN BY JH	
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LEGEND:

- ⊕ TANK CAVITY WELL
 - ⊕ APPROXIMATE LOCATION OF DEWATERING WELL (OFFSITE)
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 - ⊕ HISTORICAL BORING LOCATION (ONSITE)
 - CPT BORING LOCATION, 2009
- Groundwater analytical results (ug/L):
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SITE PLAN ADAPTED FROM A MAP CREATED BY TRC FROM UNION OIL CO. SITE PLAN (1979).

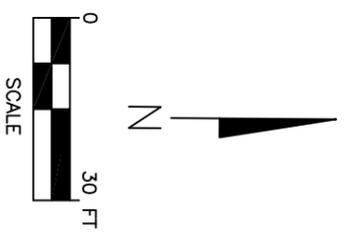
FIGURE 3b
SITE PLAN
Groundwater, 35 feet to 60 feet

FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO. C103737	PREPARED BY AB	DRAWN BY JH	
DATE 08/04/09	REVIEWED BY JR	FILE NAME 76-3737	



- LEGEND:**
- ⊕ TANK CAVITY WELL
 - ⊕ APPROXIMATE LOCATION OF DEWATERING WELL (OFFSITE)
 - ⊙ APPROXIMATE BORING LOCATION BY TREADWELL AND ROLLO (OFFSITE), 2000-2005
 - ⊕ HISTORICAL BORING LOCATION (ONSITE)
 - ⊕ APPROXIMATE LOCATION OF SITE FEATURES ON 1951 SANBORN MAP
 - APPROXIMATE LOCATION OF FORMER CONTAINMENT BERM



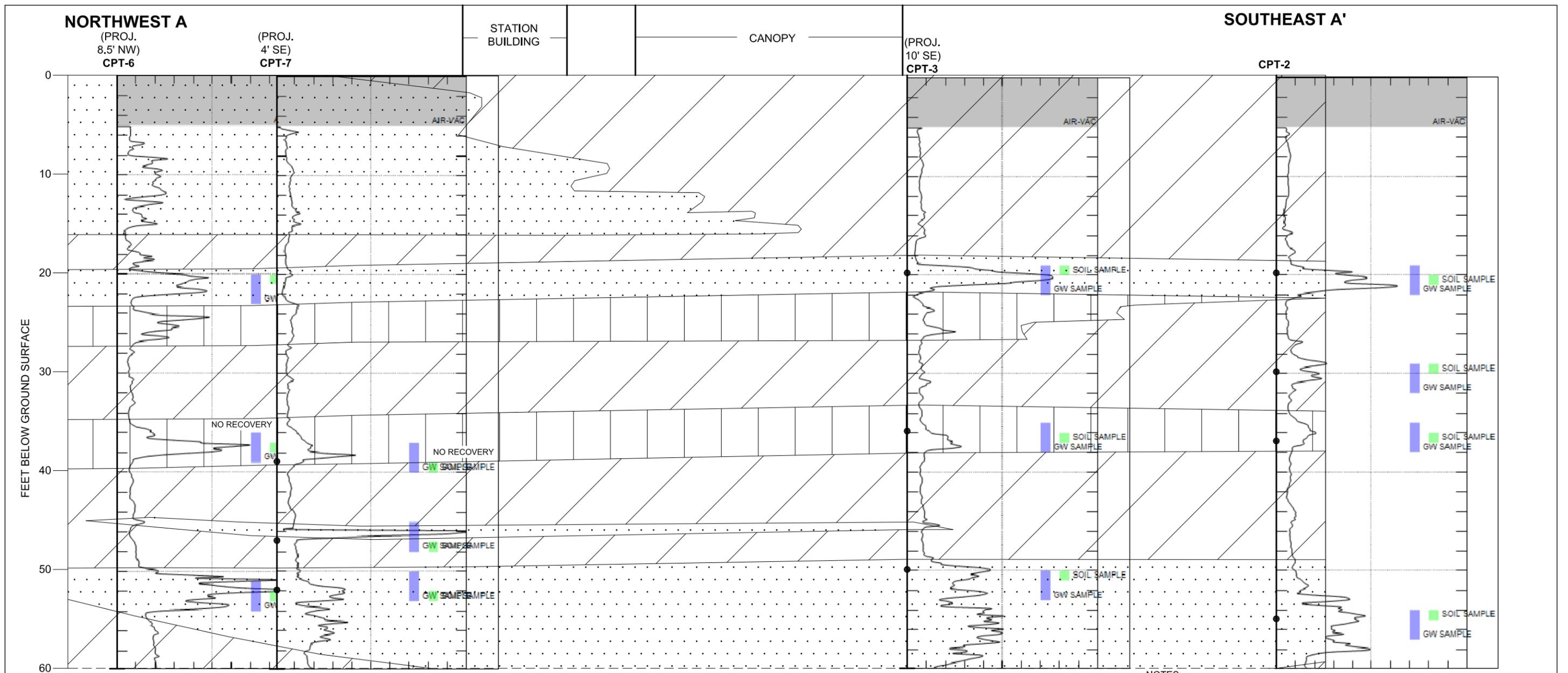
SITE PLAN ADAPTED FROM A MAP CREATED BY TRC FROM UNION OIL CO. SITE PLAN (1979).

FIGURE 4
SITE PLAN

FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

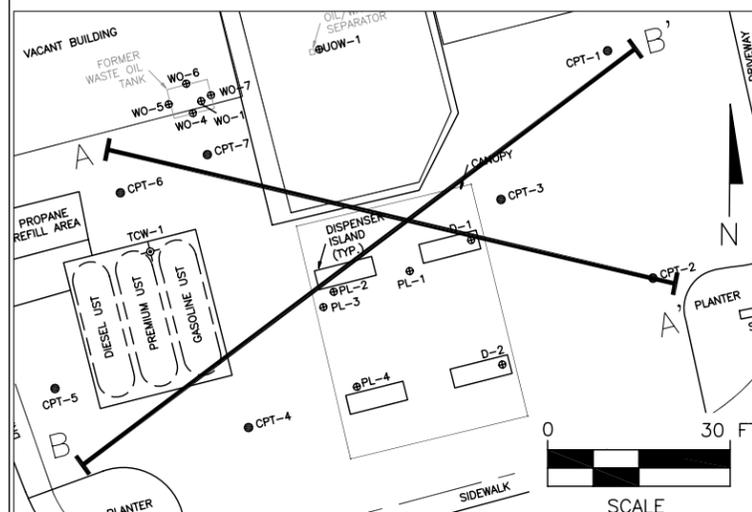
PROJECT NO. C103737	PREPARED BY JR	DRAWN BY JH
DATE 01/08/09	REVIEWED BY JR	FILE NAME 76-3737





NOTES:

- 1) ND=BELOW THE LABORATORY'S INDICATED REPORTING LIMIT
 MTBE=METHYL TERT BUTYL ETHER
 GASOLINE=GASOLINE RANGE ORGANICS (C-4-C-12)
 DIESEL=DIESEL RANGE ORGANICS (C-12-C-24)
 mg/kg=MILLIGRAMS PER KILOGRAM
 ug/L=MICROGRAMS PER LITER
- 2) STRATIGRAPHY BETWEEN BORINGS IS INTERPRETIVE.
- 3) CPT LOGS SHOWN ARE q_t LOGS.



LEGEND

- CPT-1 BORING NAME
- EXPLORATORY BORING
- SOIL SAMPLE LOCATION
- GROUNDWATER SAMPLE LOCATION
- DEPTH TO FIRST ENCOUNTERED GROUNDWATER
- DEPTH TO STATIC GROUNDWATER
- (ND / ND / 570 / 5.6) SOIL SAMPLE LOCATION WITH ANALYTICAL DATA: BENZENE, MTBE, GASOLINE, DIESEL (mg/kg)
- 42 / ND / 690 / 260 GROUNDWATER SAMPLE LOCATION WITH ANALYTICAL DATA: BENZENE, MTBE, GASOLINE, DIESEL (ug/L)
- LOW PERMEABILITY (CLAY, SILT)
- MEDIUM PERMEABILITY (SAND, GRAVEL WITH CLAY, SILT)
- HIGH PERMEABILITY (SANDS AND GRAVELS)
- APPROXIMATE STRATIGRAPHIC BOUNDARY

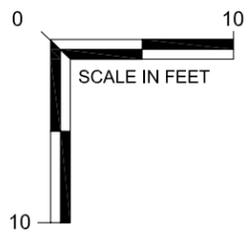


FIGURE 5a
GEOLOGIC CROSS SECTION A-A'
CPT DATA
FORMER 76 STATION #3737
1400 POWELL STREET
EMERYVILLE, CALIFORNIA

PROJECT NO. C103737	PREPARED BY AB	DRAWN BY JH
DATE 08/13/09	REVIEWED BY JR	FILE NAME 76-3737

TABLES

TABLE 1
 Summary of Soil Analytical Results
 ConocoPhillips Service Station No. 3737
 1400 Powell Street
 Emeryville, CA

Contaminant	Sample Depth									Reporting Limit	Units
	CPT-1@7'	CPT-1@12'	CPT-1@22'	CPT-1@30'	CPT-1@50'	CPT-2@20'	CPT-2@30'	CPT-2@37'	CPT-2@55'		
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Ethylbenzene	1.1	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Methyl t-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	mg/kg
t-Amyl Methyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
t-Butyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	mg/kg
Diisopropyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	mg/kg
Ethyl t-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Gasoline Range Organics (C4 - C12)	570	ND	ND	ND	ND	ND	ND	ND	ND	1	mg/kg
Diesel Range Organics (C12 - C24)	5.6	2.5	ND	ND	2	ND	ND	ND	ND	2	mg/kg

ND = below laboratory reporting limits

mg/kg = milligrams per kilogram

bold = above laboratory reporting limits

TABLE 1
 Summary of Soil Analytical Results
 ConocoPhillips Service Station No. 3737
 1400 Powell Street
 Emeryville, CA

Contaminant	Sample Depth									Reporting Limit	Units
	CPT-3@20'	CPT-3@36'	CPT-3@50'	CPT-4@22'	CPT-4@39'	CPT-4@53'	CPT-5@10'	CPT-5@30'	CPT-5@38'		
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Methyl t-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.01	mg/kg
t-Amyl Methyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
t-Butyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	mg/kg
Diisopropyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	mg/kg
Ethyl t-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Gasoline Range Organics (C4 - C12)	ND	ND	ND	ND	4.7	ND	1.5	ND	ND	1	mg/kg
Diesel Range Organics (C12 - C24)	2.4	ND	ND	ND	ND	ND	4.3	ND	ND	2	mg/kg

ND = below laboratory reporting limits

mg/kg = milligrams per kilogram

bold = above laboratory reporting limits

TABLE 1
 Summary of Soil Analytical Results
 ConocoPhillips Service Station No. 3737
 1400 Powell Street
 Emeryville, CA

Contaminant	Sample Depths								Reporting Limit	Units
	CPT-5@46'	CPT-5@54'	CPT-6@21'	CPT-6@38'	CPT-6@53'	CPT-7@39'	CPT-7@47'	CPT-7@52'		
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
1,2-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Methyl t-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Total Xylenes	ND	ND	ND	ND	ND	ND	ND	ND	0.01	mg/kg
t-Amyl Methyl ether	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
t-Butyl alcohol	ND	ND	ND	ND	ND	ND	ND	ND	0.05	mg/kg
Diisopropyl ether	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Ethanol	ND	ND	ND	ND	ND	ND	ND	ND	1	mg/kg
Ethyl t-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	0.005	mg/kg
Gasoline Range Organics (C4 - C12)	ND	ND	ND	ND	ND	ND	ND	1.1	1	mg/kg
Diesel Range Organics (C12 - C24)	2.2	ND	2	mg/kg						

ND = below laboratory reporting limits

mg/kg = milligrams per kilogram

bold = above laboratory reporting limits

TABLE 2
 Summary of Groundwater Analytical Results
 ConocoPhillips Service Station No. 3737
 1400 Powell Street
 Emeryville, CA

Contaminant	Sample Depth						Reporting Limit	Units
	CPT-1@6-9'	CPT-1@29-32'	CPT-1@50-52'	CPT-2@19-22'	CPT-2@29-32'	CPT-2@35-38'		
Benzene	42	ND	ND	ND	ND	ND	0.5	ug/L
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	0.5	ug/L
1,2-Dichloroethane	4.4	ND	ND	ND	ND	ND	0.5	ug/L
Ethylbenzene	59	ND	ND	ND	ND	ND	0.5	ug/L
Methyl t-butyl ether	ND	ND	ND	0.99	ND	ND	0.5	ug/L
Toluene	4	ND	ND	ND	ND	ND	0.5	ug/L
Total Xylenes	11	ND	ND	ND	ND	ND	1	ug/L
t-Amyl Methyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
t-Butyl alcohol	ND	ND	ND	ND	ND	ND	10	ug/L
Diisopropyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
Ethanol	ND	ND	ND	ND	ND	ND	250	ug/L
Ethyl t-butyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
Gasoline Range Organics (C4 - C12)	690	ND	ND	ND	ND	ND	50	ug/L
Diesel Range Organics (C12 - C24)	260	ND	ND	ND	ND	ND	59	ug/L

ND = below laboratory reporting limits

ug/L = micrograms per liter

bold = above laboratory reporting limits

TABLE 2
 Summary of Groundwater Analytical Results
 ConocoPhillips Service Station No. 3737
 1400 Powell Street
 Emeryville, CA

Contaminant	Sample Depth						Reporting Limit	Units
	CPT-5@28-31'	CPT-5@52-55'	CPT-6@20-23'	CPT-6@51-54'	CPT-7@45-48'	CPT-7@50-53'		
Benzene	ND	ND	ND	ND	ND	ND	0.5	ug/L
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	0.5	ug/L
1,2-Dichloroethane	3.4	ND	1.5	ND	ND	ND	0.5	ug/L
Ethylbenzene	ND	ND	ND	ND	ND	ND	0.5	ug/L
Methyl t-butyl ether	0.96	ND	ND	ND	ND	ND	0.5	ug/L
Toluene	ND	ND	ND	ND	ND	ND	0.5	ug/L
Total Xylenes	ND	ND	ND	ND	ND	ND	1	ug/L
t-Amyl Methyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
t-Butyl alcohol	ND	ND	ND	ND	ND	ND	10	ug/L
Diisopropyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
Ethanol	ND	ND	ND	ND	ND	ND	250	ug/L
Ethyl t-butyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
Gasoline Range Organics (C4 - C12)	59	ND	ND	ND	ND	ND	50	ug/L
Diesel Range Organics (C12 - C24)	630	270	ND	50	200	110	59	ug/L

ND = below laboratory reporting limits ug/L = micrograms per liter
 bold = above laboratory reporting limits

TABLE 2
 Summary of Groundwater Analytical Results
 ConocoPhillips Service Station No. 3737
 1400 Powell Street
 Emeryville, CA

Contaminant	Sample Depth						Reporting Limit	Units
	CPT-2@50-53'	CPT-3@19-22'	CPT-3@35-38'	CPT-3@50-53'	CPT-4@20-23'	CPT-4@52-55'		
Benzene	ND	ND	ND	ND	1.8	1.4	0.5	ug/L
1,2-Dibromoethane	ND	ND	ND	ND	ND	ND	0.5	ug/L
1,2-Dichloroethane	ND	ND	ND	ND	43	ND	0.5	ug/L
Ethylbenzene	ND	ND	ND	ND	0.84	2.1	0.5	ug/L
Methyl t-butyl ether	ND	ND	ND	ND	1.3	ND	0.5	ug/L
Toluene	ND	ND	ND	ND	ND	ND	0.5	ug/L
Total Xylenes	ND	ND	ND	ND	ND	ND	1	ug/L
t-Amyl Methyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
t-Butyl alcohol	ND	ND	ND	ND	ND	ND	10	ug/L
Diisopropyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
Ethanol	ND	ND	ND	ND	ND	ND	250	ug/L
Ethyl t-butyl ether	ND	ND	ND	ND	ND	ND	0.5	ug/L
Gasoline Range Organics (C4 - C12)	ND	ND	ND	ND	56	99	50	ug/L
Diesel Range Organics (C12 - C24)	ND	ND	ND	90	66	91	59	ug/L

ND = below laboratory reporting limits ug/L = micrograms per liter
 bold = above laboratory reporting limits

APPENDIX A

ACHCSA letter dated 5/08/09

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director



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

May 8, 2009

Terry Grayson
ConocoPhillips
76 Broadway
Sacramento, CA 95818

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

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

Dear Mr. Grayson and Mr. Revan:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the document entitled; *Delineation of Hydrocarbon Affected Soil and Groundwater --Work Plan* dated January 14, 2009 and received April 15, 2009. Additionally, thank you for uploading the historical reports for the site. As requested in our November 13, 2008 meeting with Conoco Phillips, Wareham Development, their respective clients and ACEH, the work plan proposes advancing seven CPT borings to a depth of 60 feet each to define the stratigraphy, and lateral and vertical extent of petroleum hydrocarbon contamination in soil and groundwater.

We generally concur with the proposed scope of work. The proposed work scope may be implemented provided that the modifications requested in the technical comments below are addressed and incorporated during field implementation. Submission of a revised work plan is not required. Please provide 72-hour advance written notification to me (e-mail preferred) prior to the start of field activities. Please submit the required reports by the due dates below.

TECHNICAL COMMENTS

1. **Soil and Water Sample Analysis** – In a November 5, 2005 directive letter, ACEH requested analysis of samples from the area of the dry cleaners and the former bulk fuel plant for HVOCs and motor oil. The case cannot progress toward closure without all of the releases or potential sources being characterized. Please include soil and water analysis for the full VOC analysis by EPA Method 8260 and motor oil by EPA Method 8015 in the borings located near these features.
2. **Data Sharing** – As directed in the November 13, 2008 meeting, ACEH requested that ConocoPhillips and Wareham Development share data for their sites since both properties overlie the former Unocal bulk fuel plant and share a common source area. Please also send Wareham Development and their consultant a copy of the report requested below.

Mr. Grayson and Mr. Revan
RO0000067
May 8, 2009, Page 2

TECHNICAL REPORT REQUEST

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

- **August 1, 2009** – Soil and Water Investigation Report

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

ELECTRONIC SUBMITTAL OF REPORTS

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

PERJURY STATEMENT

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

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

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

Mr. Grayson and Mr. Revan
RO0000067
May 8, 2009, Page 3

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) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,



Barbara J. Jakub, P.G.
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: James Barnard, Delta Consultants, 11050 White Rock Rd., Suite 110 Rancho Cordova, CA 95670
Geoffrey Sears, Wareham Development, 1120 Nye St., Suite 400, San Rafael, CA 94901
Glenn Leong, Leong Environmental, 2534 42nd Avenue, San Francisco, CA 94116
Donna Drogos, ACEH
Barbara Jakub, ACEH
File

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

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

REQUIREMENTS

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

Additional Recommendations

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

Submission Instructions

- 1) Obtain User Name and Password:
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to dehloptoxic@acgov.org
 - Or
 - ii) Send a fax on company letterhead to (510) 337-9335, to the attention of My Le Huynh.
 - b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - (i) Note: Netscape and Firefox browsers will not open the FTP site.
 - b) Click on File, then on Login As.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO# use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

APPENDIX B

Alameda Co. Public Works Agency Permits

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 06/03/2009 By jamesy

Permit Numbers: W2009-0440
Permits Valid from 07/11/2009 to 07/19/2009

Application Id: 1243875333699
Site Location: 1400 Powell St, Emeryville, CA 94608
Project Start Date: 07/11/2009
Assigned Inspector: Contact John Shouldice at (510) 670-5424 or johns@acpwa.org

City of Project Site: Emeryville

Completion Date: 07/19/2009

Applicant: Delta - Alan Buehler
11050 White Rock Rd., Ste 110, Ranco Cordova, CA 95670
Property Owner: Najmeddin Ravan
1400 Powell St., Emeryville, CA 94608
Client: ** same as Property Owner **

Phone: 916-638-2085

Phone: 510-653-2251

Receipt Number: WR2009-0197 Total Due: \$230.00
Payer Name : Delta Total Amount Paid: \$230.00
Paid By: CHECK PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Geotechnical Study/CPT's - 7 Boreholes
Driller: Gregg - Lic #: 485165 - Method: DP

Work Total: \$230.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0440	06/03/2009	10/09/2009	7	2.00 in.	60.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
5. Applicant shall contact John Shouldice for an inspection time at 510-670-5424 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

Alameda County Public Works Agency - Water Resources Well Permit

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

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

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

APPENDIX C

Laboratory Analytical Results and Chain-of-Custody Documents



Date of Report: 08/10/2009

Alan Buehler

Delta Environmental Consultants, Inc.

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

RE: 3737
BC Work Order: 0909516
Invoice ID: B066273

Enclosed are the results of analyses for samples received by the laboratory on 7/21/2009. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature



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

Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909516-01	COC Number:	---		07/21/2009 21:15	07/18/2009 13:55	---	Water			CPT-1	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-1 @ 6-9'											
	Sampled By:	DECR											
0909516-02	COC Number:	---		07/21/2009 21:15	07/18/2009 16:00	---	Water			CPT-1	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-1 @ 29-32'											
	Sampled By:	DECR											
0909516-03	COC Number:	---		07/21/2009 21:15	07/18/2009 16:10	---	Water			CPT-1	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-1 @ 50-53'											
	Sampled By:	DECR											
0909516-04	COC Number:	---		07/21/2009 21:15	07/18/2009 12:00	---	Solids			CPT-1	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-1 @ 7'											
	Sampled By:	DECR											



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

Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909516-05	COC Number:	---		07/21/2009 21:15	07/18/2009 12:05	---	Solids			CPT-1	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-1 @ 12'											
	Sampled By:	DECR											
0909516-06	COC Number:	---		07/21/2009 21:15	07/18/2009 12:10	---	Solids			CPT-1	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-1 @ 22'											
	Sampled By:	DECR											
0909516-07	COC Number:	---		07/21/2009 21:15	07/18/2009 12:15	---	Solids			CPT-1	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-1 @ 30'											
	Sampled By:	DECR											
0909516-08	COC Number:	---		07/21/2009 21:15	07/18/2009 12:18	---	Solids			CPT-1	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-1 @ 50'											
	Sampled By:	DECR											



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Delivery Work Order:
0909516-09	COC Number:	---		07/21/2009 21:15		Global ID:
	Project Number:	3737		07/19/2009 07:45		Location ID (FieldPoint): CPT-3
	Sampling Location:	---				Matrix: SO
	Sampling Point:	CPT-3 @ 20'		Sample Depth:	---	Sample QC Type (SACode): CS
	Sampled By:	DECR		Sample Matrix:	Solids	Cooler ID:
0909516-10	COC Number:	---		07/21/2009 21:15		Global ID:
	Project Number:	3737		07/19/2009 07:50		Location ID (FieldPoint): CPT-3
	Sampling Location:	---				Matrix: SO
	Sampling Point:	CPT-3 @ 36'		Sample Depth:	---	Sample QC Type (SACode): CS
	Sampled By:	DECR		Sample Matrix:	Solids	Cooler ID:
0909516-11	COC Number:	---		07/21/2009 21:15		Global ID:
	Project Number:	3737		07/19/2009 08:00		Location ID (FieldPoint): CPT-3
	Sampling Location:	---				Matrix: SO
	Sampling Point:	CPT-3 @ 50'		Sample Depth:	---	Sample QC Type (SACode): CS
	Sampled By:	DECR		Sample Matrix:	Solids	Cooler ID:
0909516-12	COC Number:	---		07/21/2009 21:15		Global ID:
	Project Number:	3737		07/19/2009 08:30		Location ID (FieldPoint): CPT-3
	Sampling Location:	---				Matrix: W
	Sampling Point:	CPT-3 @ 19-22'		Sample Depth:	---	Sample QC Type (SACode): CS
	Sampled By:	DECR		Sample Matrix:	Water	Cooler ID:



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909516-13	COC Number:	---		07/21/2009 21:15	07/19/2009 09:00	---	Water			CPT-3	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-3 @ 35-38'											
	Sampled By:	DECR											
0909516-14	COC Number:	---		07/21/2009 21:15	07/19/2009 09:45	---	Water			CPT-3	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-3 @ 50-53'											
	Sampled By:	DECR											
0909516-15	COC Number:	---		07/21/2009 21:15	07/19/2009 13:00	---	Solids			CPT-2	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-2 @ 20'											
	Sampled By:	DECR											
0909516-16	COC Number:	---		07/21/2009 21:15	07/19/2009 13:05	---	Solids			CPT-2	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-2 @ 30'											
	Sampled By:	DECR											



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Project Number: [none]
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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909516-17	COC Number:	---		07/21/2009 21:15	07/19/2009 13:08	---	Solids			CPT-2	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-2 @ 37'											
	Sampled By:	DECR											
0909516-18	COC Number:	---		07/21/2009 21:15	07/19/2009 13:10	---	Solids			CPT-2	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-2 @ 55'											
	Sampled By:	DECR											
0909516-19	COC Number:	---		07/21/2009 21:15	07/19/2009 13:55	---	Water			CPT-2	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-2 @ 19-22'											
	Sampled By:	DECR											
0909516-20	COC Number:	---		07/21/2009 21:15	07/19/2009 14:15	---	Water			CPT-2	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-2 @ 29-32'											
	Sampled By:	DECR											

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Project Manager: Alan Buehler

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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
0909516-21	COC Number: --- Project Number: 3737 Sampling Location: --- Sampling Point: CPT-2 @ 35-38' Sampled By: DECR	Receive Date: 07/21/2009 21:15 Sampling Date: 07/19/2009 14:30 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: Location ID (FieldPoint): CPT-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
0909516-22	COC Number: --- Project Number: 3737 Sampling Location: --- Sampling Point: CPT-2 @ 50-53' Sampled By: DECR	Receive Date: 07/21/2009 21:15 Sampling Date: 07/19/2009 15:30 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: Location ID (FieldPoint): CPT-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:



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Project Number: [none]
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909516-01		Client Sample Name: 3737, CPT-1 @ 6-9', 7/18/2009 1:55:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	42	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
1,2-Dichloroethane	4.4	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
Ethylbenzene	59	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
Toluene	4.0	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
Total Xylenes	11	ug/L	1.0		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243	ND		
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243			
Toluene-d8 (Surrogate)	105	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243			
4-Bromofluorobenzene (Surrogate)	104	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:50	KEA	MS-V12	1	BSG1243			



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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-01	Client Sample Name: 3737, CPT-1 @ 6-9', 7/18/2009 1:55:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	690	ug/L	50		Luft	07/24/09	07/24/09 06:30	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	122	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 06:30	JJH	GC-V4	1	BSG1427		



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Project Number: [none]
Project Manager: Alan Buehler

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-01	Client Sample Name: 3737, CPT-1 @ 6-9', 7/18/2009 1:55:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	260	ug/L	59		Luft/TPHd	07/27/09	07/30/09 16:56	OAA	GC-5	1.176	BSG1719	ND	
Tetracosane (Surrogate)	83.8	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 16:56	OAA	GC-5	1.176	BSG1719		

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Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-02	Client Sample Name:	3737, CPT-1 @ 29-32', 7/18/2009 4:00:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dichloroethane-d4 (Surrogate)	113	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243		
Toluene-d8 (Surrogate)	104	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243		
4-Bromofluorobenzene (Surrogate)	95.8	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:31	KEA	MS-V12	1	BSG1243		



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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-02	Client Sample Name:	3737, CPT-1 @ 29-32', 7/18/2009 4:00:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 06:55	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	101	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 06:55	JJH	GC-V4	1	BSG1427		



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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-02		Client Sample Name: 3737, CPT-1 @ 29-32', 7/18/2009 4:00:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	56		Luft/TPHd	07/27/09	07/30/09 17:10	OAA	GC-5	1.126	BSG1719	ND	
Tetracosane (Surrogate)	85.1	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 17:10	OAA	GC-5	1.126	BSG1719		



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Project: 3737
Project Number: [none]
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-03		Client Sample Name:	3737, CPT-1 @ 50-53', 7/18/2009 4:10:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane-d4 (Surrogate)	110	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243			
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243			
4-Bromofluorobenzene (Surrogate)	93.0	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 15:13	KEA	MS-V12	1	BSG1243			



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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-03	Client Sample Name:	3737, CPT-1 @ 50-53', 7/18/2009 4:10:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 07:19	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	98.3	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 07:19	JJH	GC-V4	1	BSG1427		



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Project: 3737
Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-03	Client Sample Name:	3737, CPT-1 @ 50-53', 7/18/2009 4:10:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	58		Luft/TPHd	07/27/09	07/30/09 17:25	OAA	GC-5	1.163	BSG1719	ND	
Tetracosane (Surrogate)	71.6	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 17:25	OAA	GC-5	1.163	BSG1719		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909516-04		Client Sample Name: 3737, CPT-1 @ 7', 7/18/2009 12:00:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
1,2-Dibromoethane	ND	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
1,2-Dichloroethane	ND	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
Ethylbenzene	1.1	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
Methyl t-butyl ether	ND	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
Toluene	ND	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
Total Xylenes	ND	mg/kg	0.25		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
t-Amyl Methyl ether	ND	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
t-Butyl alcohol	ND	mg/kg	1.2		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
Diisopropyl ether	ND	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
Ethanol	ND	mg/kg	25		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
Ethyl t-butyl ether	ND	mg/kg	0.12		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180	ND	A01	
1,2-Dichloroethane-d4 (Surrogate)	109	%	70 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180			
Toluene-d8 (Surrogate)	115	%	81 - 117 (LCL - UCL)		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180			
4-Bromofluorobenzene (Surrogate)	133	%	74 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/27/09 11:32	ADC	MS-V2	25	BSG1180		A19,S09	

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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-04	Client Sample Name:	3737, CPT-1 @ 7', 7/18/2009 12:00:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Gasoline Range Organics (C4 - C12)	570	mg/kg	100		Luft	07/22/09	07/24/09 11:29	JJH	GC-V8	100	BSG1181	ND	A01	
a,a,a-Trifluorotoluene (FID Surrogate)	76.0	%	70 - 130 (LCL - UCL)		Luft	07/22/09	07/24/09 11:29	JJH	GC-V8	100	BSG1181			



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Project Number: [none]
Project Manager: Alan Buehler

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-04		Client Sample Name: 3737, CPT-1 @ 7', 7/18/2009 12:00:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	5.6	mg/kg	2.0		Luft/TPHd	07/27/09	07/28/09 21:33	OAA	GC-5	1.003	BSG1609	2.3	M01	
Tetracosane (Surrogate)	69.7	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/28/09 21:33	OAA	GC-5	1.003	BSG1609			



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-05	Client Sample Name:	3737, CPT-1 @ 12', 7/18/2009 12:05:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162	ND	
1,2-Dichloroethane-d4 (Surrogate)	96.9	%	70 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162		
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162		
4-Bromofluorobenzene (Surrogate)	97.9	%	74 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:04	ADC	MS-V2	1	BSG1162		



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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-05		Client Sample Name: 3737, CPT-1 @ 12', 7/18/2009 12:05:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quas
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/22/09	07/24/09 10:58	JJH	GC-V8	1	BSG1181	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	96.2	%	70 - 130 (LCL - UCL)		Luft	07/22/09	07/24/09 10:58	JJH	GC-V8	1	BSG1181		

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Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-05	Client Sample Name:	3737, CPT-1 @ 12', 7/18/2009 12:05:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	2.5	mg/kg	2.0		Luft/TPHd	07/27/09	07/28/09 22:31	OAA	GC-5	1.014	BSG1609	2.3	M01
Tetracosane (Surrogate)	70.8	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/28/09 22:31	OAA	GC-5	1.014	BSG1609		



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Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-06		Client Sample Name:	3737, CPT-1 @ 22', 7/18/2009 12:10:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234	ND		
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234			
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234			
4-Bromofluorobenzene (Surrogate)	96.9	%	74 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:30	ADC	MS-V2	1	BSG1234			



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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-06	Client Sample Name:	3737, CPT-1 @ 22', 7/18/2009 12:10:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/22/09	07/23/09 13:05	JJH	GC-V8	1	BSG1181	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.0	%	70 - 130 (LCL - UCL)		Luft	07/22/09	07/23/09 13:05	JJH	GC-V8	1	BSG1181		



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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-06		Client Sample Name: 3737, CPT-1 @ 22', 7/18/2009 12:10:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/27/09	07/28/09 22:45	OAA	GC-5	0.997	BSG1609	2.3	M01	
Tetracosane (Surrogate)	65.1	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/28/09 22:45	OAA	GC-5	0.997	BSG1609			

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Project Number: [none]
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-07	Client Sample Name:	3737, CPT-1 @ 30', 7/18/2009 12:15:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234	ND	
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234		
Toluene-d8 (Surrogate)	100	%	81 - 117 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234		
4-Bromofluorobenzene (Surrogate)	95.6	%	74 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 18:56	ADC	MS-V2	1	BSG1234		



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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-07		Client Sample Name: 3737, CPT-1 @ 30', 7/18/2009 12:15:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/22/09	07/23/09 13:35	JJH	GC-V8	1	BSG1181	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	104	%	70 - 130 (LCL - UCL)		Luft	07/22/09	07/23/09 13:35	JJH	GC-V8	1	BSG1181		



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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-07		Client Sample Name: 3737, CPT-1 @ 30', 7/18/2009 12:15:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/27/09	07/28/09 22:59	OAA	GC-5	0.987	BSG1609	2.3	M01	
Tetracosane (Surrogate)	66.7	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/28/09 22:59	OAA	GC-5	0.987	BSG1609			

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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-08	Client Sample Name:	3737, CPT-1 @ 50', 7/18/2009 12:18:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234	ND	
1,2-Dichloroethane-d4 (Surrogate)	99.1	%	70 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234		
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234		
4-Bromofluorobenzene (Surrogate)	98.0	%	74 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 19:22	ADC	MS-V2	1	BSG1234		



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Project Number: [none]
Project Manager: Alan Buehler

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-08		Client Sample Name: 3737, CPT-1 @ 50', 7/18/2009 12:18:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/22/09	07/23/09 14:05	JJH	GC-V8	1	BSG1181	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	96.2	%	70 - 130 (LCL - UCL)		Luft	07/22/09	07/23/09 14:05	JJH	GC-V8	1	BSG1181		



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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-08		Client Sample Name: 3737, CPT-1 @ 50', 7/18/2009 12:18:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	2.0	mg/kg	2.0		Luft/TPHd	07/27/09	07/28/09 23:14	OAA	GC-5	1.003	BSG1609	2.3	M01	
Tetracosane (Surrogate)	67.1	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/28/09 23:14	OAA	GC-5	1.003	BSG1609			

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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-09	Client Sample Name:	3737, CPT-3 @ 20', 7/19/2009 7:45:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234	ND	
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234		
Toluene-d8 (Surrogate)	99.8	%	81 - 117 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234		
4-Bromofluorobenzene (Surrogate)	96.8	%	74 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 03:34	ADC	MS-V2	1	BSG1234		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-09		Client Sample Name: 3737, CPT-3 @ 20', 7/19/2009 7:45:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/22/09	07/23/09 14:36	JJH	GC-V8	1	BSG1181	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.5	%	70 - 130 (LCL - UCL)		Luft	07/22/09	07/23/09 14:36	JJH	GC-V8	1	BSG1181		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-09	Client Sample Name: 3737, CPT-3 @ 20', 7/19/2009 7:45:00AM													
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	2.4	mg/kg	2.0		Luft/TPHd	07/27/09	07/28/09 23:28	OAA	GC-5	1.014	BSG1609	2.3	M01	
Tetracosane (Surrogate)	67.3	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/28/09 23:28	OAA	GC-5	1.014	BSG1609			



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-10	Client Sample Name:	3737, CPT-3 @ 36', 7/19/2009 7:50:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234	ND	
1,2-Dichloroethane-d4 (Surrogate)	112	%	70 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234		
Toluene-d8 (Surrogate)	98.9	%	81 - 117 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234		
4-Bromofluorobenzene (Surrogate)	98.3	%	74 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 20:40	ADC	MS-V2	1	BSG1234		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-10	Client Sample Name:	3737, CPT-3 @ 36', 7/19/2009 7:50:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/22/09	07/23/09 16:59	JJH	GC-V8	1	BSG1181	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	98.8	%	70 - 130 (LCL - UCL)		Luft	07/22/09	07/23/09 16:59	JJH	GC-V8	1	BSG1181		



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Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-10		Client Sample Name: 3737, CPT-3 @ 36', 7/19/2009 7:50:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/27/09	07/28/09 23:42	OAA	GC-5	0.990	BSG1609	2.3	M01	
Tetracosane (Surrogate)	65.5	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/28/09 23:42	OAA	GC-5	0.990	BSG1609			



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-11		Client Sample Name:	3737, CPT-3 @ 50', 7/19/2009 8:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234	ND		
1,2-Dichloroethane-d4 (Surrogate)	97.7	%	70 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234			
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234			
4-Bromofluorobenzene (Surrogate)	97.4	%	74 - 121 (LCL - UCL)		EPA-8260	07/23/09	07/24/09 23:42	ADC	MS-V2	1	BSG1234			



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-11	Client Sample Name:	3737, CPT-3 @ 50', 7/19/2009 8:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/23/09	07/23/09 17:29	JJH	GC-V8	1	BSG1306	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	95.5	%	70 - 130 (LCL - UCL)		Luft	07/23/09	07/23/09 17:29	JJH	GC-V8	1	BSG1306		



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Project: 3737
Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-11		Client Sample Name: 3737, CPT-3 @ 50', 7/19/2009 8:00:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/27/09	07/28/09 23:56	OAA	GC-5	0.976	BSG1609	2.3	M01	
Tetracosane (Surrogate)	68.5	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/28/09 23:56	OAA	GC-5	0.976	BSG1609			



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-12		Client Sample Name:	3737, CPT-3 @ 19-22', 7/19/2009 8:30:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane-d4 (Surrogate)	114	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243			
Toluene-d8 (Surrogate)	98.1	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243			
4-Bromofluorobenzene (Surrogate)	96.1	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:55	KEA	MS-V12	1	BSG1243			



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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-12		Client Sample Name: 3737, CPT-3 @ 19-22', 7/19/2009 8:30:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 07:43	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	93.5	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 07:43	JJH	GC-V4	1	BSG1427		



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Project: 3737
Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-12		Client Sample Name: 3737, CPT-3 @ 19-22', 7/19/2009 8:30:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	57		Luft/TPHd	07/27/09	07/30/09 17:38	OAA	GC-5	1.149	BSG1719	ND	
Tetracosane (Surrogate)	90.6	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 17:38	OAA	GC-5	1.149	BSG1719		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-13		Client Sample Name:	3737, CPT-3 @ 35-38', 7/19/2009 9:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243			
Toluene-d8 (Surrogate)	100	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243			
4-Bromofluorobenzene (Surrogate)	98.1	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:37	KEA	MS-V12	1	BSG1243			



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-13	Client Sample Name:	3737, CPT-3 @ 35-38', 7/19/2009 9:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 08:07	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	89.6	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 08:07	JJH	GC-V4	1	BSG1427		



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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-13	Client Sample Name: 3737, CPT-3 @ 35-38', 7/19/2009 9:00:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	57		Luft/TPHd	07/27/09	07/30/09 17:53	OAA	GC-5	1.136	BSG1719	ND	
Tetracosane (Surrogate)	86.0	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 17:53	OAA	GC-5	1.136	BSG1719		

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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-14	Client Sample Name:	3737, CPT-3 @ 50-53', 7/19/2009 9:45:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243		
Toluene-d8 (Surrogate)	97.6	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243		
4-Bromofluorobenzene (Surrogate)	93.1	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:19	KEA	MS-V12	1	BSG1243		



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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-14	Client Sample Name:	3737, CPT-3 @ 50-53', 7/19/2009 9:45:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 08:31	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	77.6	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 08:31	JJH	GC-V4	1	BSG1427		



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Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-14		Client Sample Name: 3737, CPT-3 @ 50-53', 7/19/2009 9:45:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quas
Diesel Range Organics (C12 - C24)	90	ug/L	58		Luft/TPHd	07/27/09	07/30/09 18:07	OAA	GC-5	1.163	BSG1719	ND	
Tetracosane (Surrogate)	78.4	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 18:07	OAA	GC-5	1.163	BSG1719		

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Project Number: [none]
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-15		Client Sample Name:	3737, CPT-2 @ 20', 7/19/2009 1:00:00PM									
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398	ND	
1,2-Dichloroethane-d4 (Surrogate)	102	%	70 - 121 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398		
Toluene-d8 (Surrogate)	97.2	%	81 - 117 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398		
4-Bromofluorobenzene (Surrogate)	94.7	%	74 - 121 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 00:08	ADC	MS-V2	1	BSG1398		



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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-15	Client Sample Name:	3737, CPT-2 @ 20', 7/19/2009 1:00:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/23/09	07/23/09 17:59	JJH	GC-V8	1	BSG1306	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)		Luft	07/23/09	07/23/09 17:59	JJH	GC-V8	1	BSG1306		



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Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-15		Client Sample Name: 3737, CPT-2 @ 20', 7/19/2009 1:00:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/27/09	07/29/09 00:11	OAA	GC-5	1.007	BSG1609	2.3	M01	
Tetracosane (Surrogate)	53.5	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/29/09 00:11	OAA	GC-5	1.007	BSG1609			



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-16	Client Sample Name:	3737, CPT-2 @ 30', 7/19/2009 1:05:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398	ND	
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398		
Toluene-d8 (Surrogate)	99.9	%	81 - 117 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398		
4-Bromofluorobenzene (Surrogate)	95.7	%	74 - 121 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 00:34	ADC	MS-V2	1	BSG1398		



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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-16	Client Sample Name:	3737, CPT-2 @ 30', 7/19/2009 1:05:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/23/09	07/23/09 18:30	JJH	GC-V8	1	BSG1306	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	96.5	%	70 - 130 (LCL - UCL)		Luft	07/23/09	07/23/09 18:30	JJH	GC-V8	1	BSG1306		



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Project: 3737
Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-16	Client Sample Name:	3737, CPT-2 @ 30', 7/19/2009 1:05:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/27/09	07/29/09 00:25	OAA	GC-5	1.010	BSG1609	2.3	M01
Tetracosane (Surrogate)	62.6	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/29/09 00:25	OAA	GC-5	1.010	BSG1609		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-17		Client Sample Name:	3737, CPT-2 @ 37', 7/19/2009 1:08:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398	ND		
1,2-Dichloroethane-d4 (Surrogate)	104	%	70 - 121 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398			
Toluene-d8 (Surrogate)	99.5	%	81 - 117 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398			
4-Bromofluorobenzene (Surrogate)	98.1	%	74 - 121 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 01:01	ADC	MS-V2	1	BSG1398			



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Project Number: [none]
Project Manager: Alan Buehler

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-17	Client Sample Name:	3737, CPT-2 @ 37', 7/19/2009 1:08:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/23/09	07/23/09 19:00	JJH	GC-V8	1	BSG1306	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.0	%	70 - 130 (LCL - UCL)		Luft	07/23/09	07/23/09 19:00	JJH	GC-V8	1	BSG1306		

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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-17	Client Sample Name:	3737, CPT-2 @ 37', 7/19/2009 1:08:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/27/09	07/29/09 00:40	OAA	GC-5	1.007	BSG1609	2.3	M01	
Tetracosane (Surrogate)	64.8	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/29/09 00:40	OAA	GC-5	1.007	BSG1609			



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-18	Client Sample Name:	3737, CPT-2 @ 55', 7/19/2009 1:10:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398	ND	
1,2-Dichloroethane-d4 (Surrogate)	100	%	70 - 121 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398		
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398		
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260	07/24/09	07/25/09 01:26	ADC	MS-V2	1	BSG1398		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-18	Client Sample Name:	3737, CPT-2 @ 55', 7/19/2009 1:10:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/23/09	07/23/09 19:30	JJH	GC-V8	1	BSG1306	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	96.0	%	70 - 130 (LCL - UCL)		Luft	07/23/09	07/23/09 19:30	JJH	GC-V8	1	BSG1306		

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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-18	Client Sample Name:	3737, CPT-2 @ 55', 7/19/2009 1:10:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/27/09	07/29/09 01:37	OAA	GC-5	1	BSG1609	2.3	M01
Tetracosane (Surrogate)	63.1	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/27/09	07/29/09 01:37	OAA	GC-5	1	BSG1609		

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Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-19		Client Sample Name:	3737, CPT-2 @ 19-22', 7/19/2009 1:55:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
Methyl t-butyl ether	0.99	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243			
Toluene-d8 (Surrogate)	98.9	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243			
4-Bromofluorobenzene (Surrogate)	95.0	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 14:01	KEA	MS-V12	1	BSG1243			



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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-19	Client Sample Name:	3737, CPT-2 @ 19-22', 7/19/2009 1:55:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 08:55	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	81.1	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 08:55	JJH	GC-V4	1	BSG1427		

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Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-19	Client Sample Name:	3737, CPT-2 @ 19-22', 7/19/2009 1:55:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	07/27/09	07/30/09 19:03	OAA	GC-5	1.055	BSG1719	ND	
Tetracosane (Surrogate)	78.4	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 19:03	OAA	GC-5	1.055	BSG1719		

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Project Number: [none]
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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-20	Client Sample Name:	3737, CPT-2 @ 29-32', 7/19/2009 2:15:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dichloroethane-d4 (Surrogate)	111	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243		
Toluene-d8 (Surrogate)	99.2	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243		
4-Bromofluorobenzene (Surrogate)	98.9	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:43	KEA	MS-V12	1	BSG1243		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-20	Client Sample Name: 3737, CPT-2 @ 29-32', 7/19/2009 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
						Date	Date/Time				Batch ID	Bias	Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 15:30	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	95.4	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 15:30	JJH	GC-V4	1	BSG1427		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-20	Client Sample Name: 3737, CPT-2 @ 29-32', 7/19/2009 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	07/27/09	07/30/09 19:17	OAA	GC-5	1.087	BSG1719	ND	
Tetracosane (Surrogate)	86.7	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 19:17	OAA	GC-5	1.087	BSG1719		

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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-21	Client Sample Name:	3737, CPT-2 @ 35-38', 7/19/2009 2:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243	ND	Z1
1,2-Dichloroethane-d4 (Surrogate)	112	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243		
Toluene-d8 (Surrogate)	99.1	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243		
4-Bromofluorobenzene (Surrogate)	96.7	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:24	KEA	MS-V12	1	BSG1243		



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-21	Client Sample Name:	3737, CPT-2 @ 35-38', 7/19/2009 2:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 15:54	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	93.8	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 15:54	JJH	GC-V4	1	BSG1427		



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Project: 3737
Project Number: [none]
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Reported: 08/10/2009 14:26

Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-21	Client Sample Name: 3737, CPT-2 @ 35-38', 7/19/2009 2:30:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	58		Luft/TPHd	07/27/09	07/30/09 19:32	OAA	GC-5	1.163	BSG1719	ND	
Tetracosane (Surrogate)	75.0	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 19:32	OAA	GC-5	1.163	BSG1719		

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909516-22		Client Sample Name:	3737, CPT-2 @ 50-53', 7/19/2009 3:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
Toluene	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethanol	ND	ug/L	250		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243	ND	Z1	
1,2-Dichloroethane-d4 (Surrogate)	114	%	76 - 114 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243			
Toluene-d8 (Surrogate)	103	%	88 - 110 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243			
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	07/23/09	07/23/09 13:06	KEA	MS-V12	1	BSG1243			



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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909516-22	Client Sample Name: 3737, CPT-2 @ 50-53', 7/19/2009 3:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
						Date	Date/Time				Batch ID	Bias	Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/24/09	07/24/09 18:19	JJH	GC-V4	1	BSG1427	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	99.3	%	70 - 130 (LCL - UCL)		Luft	07/24/09	07/24/09 18:19	JJH	GC-V4	1	BSG1427		

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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Total Petroleum Hydrocarbons

BCL Sample ID:	0909516-22	Client Sample Name:	3737, CPT-2 @ 50-53', 7/19/2009 3:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	59		Luft/TPHd	07/27/09	07/30/09 19:46	OAA	GC-5	1.176	BSG1719	ND	
Tetracosane (Surrogate)	71.5	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/27/09	07/30/09 19:46	OAA	GC-5	1.176	BSG1719		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Benzene	BSG1162	Matrix Spike	0908002-62	0	0.10796	0.12500	mg/kg		86.4		70 - 130
		Matrix Spike Duplicate	0908002-62	0	0.10791	0.12500	mg/kg	0.1	86.3	20	70 - 130
Toluene	BSG1162	Matrix Spike	0908002-62	0	0.10617	0.12500	mg/kg		84.9		70 - 130
		Matrix Spike Duplicate	0908002-62	0	0.11178	0.12500	mg/kg	5.2	89.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BSG1162	Matrix Spike	0908002-62	ND	0.051215	0.050000	mg/kg		102		70 - 121
		Matrix Spike Duplicate	0908002-62	ND	0.051760	0.050000	mg/kg		104		70 - 121
Toluene-d8 (Surrogate)	BSG1162	Matrix Spike	0908002-62	ND	0.050306	0.050000	mg/kg		101		81 - 117
		Matrix Spike Duplicate	0908002-62	ND	0.051777	0.050000	mg/kg		104		81 - 117
4-Bromofluorobenzene (Surrogate)	BSG1162	Matrix Spike	0908002-62	ND	0.049438	0.050000	mg/kg		98.9		74 - 121
		Matrix Spike Duplicate	0908002-62	ND	0.048962	0.050000	mg/kg		97.9		74 - 121
Benzene	BSG1180	Matrix Spike	0908002-83	0	0.13041	0.12500	mg/kg		104		70 - 130
		Matrix Spike Duplicate	0908002-83	0	0.13572	0.12500	mg/kg	4.7	109	20	70 - 130
Toluene	BSG1180	Matrix Spike	0908002-83	0	0.12570	0.12500	mg/kg		101		70 - 130
		Matrix Spike Duplicate	0908002-83	0	0.13393	0.12500	mg/kg	5.8	107	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BSG1180	Matrix Spike	0908002-83	ND	0.052428	0.050000	mg/kg		105		70 - 121
		Matrix Spike Duplicate	0908002-83	ND	0.052011	0.050000	mg/kg		104		70 - 121
Toluene-d8 (Surrogate)	BSG1180	Matrix Spike	0908002-83	ND	0.049825	0.050000	mg/kg		99.6		81 - 117
		Matrix Spike Duplicate	0908002-83	ND	0.050461	0.050000	mg/kg		101		81 - 117
4-Bromofluorobenzene (Surrogate)	BSG1180	Matrix Spike	0908002-83	ND	0.048805	0.050000	mg/kg		97.6		74 - 121
		Matrix Spike Duplicate	0908002-83	ND	0.050091	0.050000	mg/kg		100		74 - 121
Benzene	BSG1234	Matrix Spike	0908002-84	0	0.13208	0.12500	mg/kg		106		70 - 130
		Matrix Spike Duplicate	0908002-84	0	0.13060	0.12500	mg/kg	1.9	104	20	70 - 130
Toluene	BSG1234	Matrix Spike	0908002-84	0	0.12998	0.12500	mg/kg		104		70 - 130
		Matrix Spike Duplicate	0908002-84	0	0.12866	0.12500	mg/kg	1.0	103	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BSG1234	Matrix Spike	0908002-84	ND	0.051786	0.050000	mg/kg		104		70 - 121
		Matrix Spike Duplicate	0908002-84	ND	0.050745	0.050000	mg/kg		101		70 - 121



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Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Toluene-d8 (Surrogate)	BSG1234	Matrix Spike	0908002-84	ND	0.050548	0.050000	mg/kg		101		81 - 117	
		Matrix Spike Duplicate	0908002-84	ND	0.050921	0.050000	mg/kg		102		81 - 117	
4-Bromofluorobenzene (Surrogate)	BSG1234	Matrix Spike	0908002-84	ND	0.050715	0.050000	mg/kg		101		74 - 121	
		Matrix Spike Duplicate	0908002-84	ND	0.050229	0.050000	mg/kg		100		74 - 121	
Benzene	BSG1243	Matrix Spike	0909559-01	0	23.980	25.000	ug/L		95.9		70 - 130	
		Matrix Spike Duplicate	0909559-01	0	24.400	25.000	ug/L	1.8	97.6	20	70 - 130	
Toluene	BSG1243	Matrix Spike	0909559-01	0	25.600	25.000	ug/L		102		70 - 130	
		Matrix Spike Duplicate	0909559-01	0	25.830	25.000	ug/L	1.0	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSG1243	Matrix Spike	0909559-01	ND	10.970	10.000	ug/L		110		76 - 114	
		Matrix Spike Duplicate	0909559-01	ND	10.650	10.000	ug/L		106		76 - 114	
Toluene-d8 (Surrogate)	BSG1243	Matrix Spike	0909559-01	ND	10.580	10.000	ug/L		106		88 - 110	
		Matrix Spike Duplicate	0909559-01	ND	10.140	10.000	ug/L		101		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSG1243	Matrix Spike	0909559-01	ND	9.9700	10.000	ug/L		99.7		86 - 115	
		Matrix Spike Duplicate	0909559-01	ND	9.9200	10.000	ug/L		99.2		86 - 115	
Benzene	BSG1398	Matrix Spike	0908002-85	0	0.14368	0.12500	mg/kg		115		70 - 130	
		Matrix Spike Duplicate	0908002-85	0	0.12726	0.12500	mg/kg	12.0	102	20	70 - 130	
Toluene	BSG1398	Matrix Spike	0908002-85	0	0.13387	0.12500	mg/kg		107		70 - 130	
		Matrix Spike Duplicate	0908002-85	0	0.11985	0.12500	mg/kg	10.9	95.9	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSG1398	Matrix Spike	0908002-85	ND	0.050972	0.050000	mg/kg		102		70 - 121	
		Matrix Spike Duplicate	0908002-85	ND	0.050304	0.050000	mg/kg		101		70 - 121	
Toluene-d8 (Surrogate)	BSG1398	Matrix Spike	0908002-85	ND	0.049636	0.050000	mg/kg		99.3		81 - 117	
		Matrix Spike Duplicate	0908002-85	ND	0.050721	0.050000	mg/kg		101		81 - 117	
4-Bromofluorobenzene (Surrogate)	BSG1398	Matrix Spike	0908002-85	ND	0.050325	0.050000	mg/kg		101		74 - 121	
		Matrix Spike Duplicate	0908002-85	ND	0.048759	0.050000	mg/kg		97.5		74 - 121	

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Gasoline Range Organics (C4 - C12)	BSG1181	Matrix Spike	0908002-57	0	5.2661	5.0000	mg/kg		105		70 - 130	
		Matrix Spike Duplicate	0908002-57	0	5.1359	5.0000	mg/kg	1.9	103	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1181	Matrix Spike	0908002-57	ND	0.039300	0.040000	mg/kg		98.2		70 - 130	
		Matrix Spike Duplicate	0908002-57	ND	0.039800	0.040000	mg/kg		99.5		70 - 130	
Gasoline Range Organics (C4 - C12)	BSG1306	Matrix Spike	0908002-58	0	5.2468	5.0000	mg/kg		105		70 - 130	
		Matrix Spike Duplicate	0908002-58	0	5.2231	5.0000	mg/kg	1.0	104	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1306	Matrix Spike	0908002-58	ND	0.039200	0.040000	mg/kg		98.0		70 - 130	
		Matrix Spike Duplicate	0908002-58	ND	0.040000	0.040000	mg/kg		100		70 - 130	
Gasoline Range Organics (C4 - C12)	BSG1427	Matrix Spike	0908002-70	0	946.49	1000.0	ug/L		94.6		70 - 130	
		Matrix Spike Duplicate	0908002-70	0	971.32	1000.0	ug/L	2.6	97.1	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1427	Matrix Spike	0908002-70	ND	40.876	40.000	ug/L		102		70 - 130	
		Matrix Spike Duplicate	0908002-70	ND	41.192	40.000	ug/L		103		70 - 130	

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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery
Diesel Range Organics (C12 - C24)	BSG1609	Matrix Spike	0908002-29	2.2252	13.551	16.667	mg/kg		68.0		40 - 137
		Matrix Spike Duplicate	0908002-29	2.2252	13.041	16.667	mg/kg	4.7	64.9	30	40 - 137
Tetracosane (Surrogate)	BSG1609	Matrix Spike	0908002-29	ND	0.47497	0.66667	mg/kg		71.2		34 - 136
		Matrix Spike Duplicate	0908002-29	ND	0.50339	0.66667	mg/kg		75.5		34 - 136
Diesel Range Organics (C12 - C24)	BSG1719	Matrix Spike	0908002-81	24.448	452.04	500.00	ug/L		85.5		36 - 130
		Matrix Spike Duplicate	0908002-81	24.448	476.41	500.00	ug/L	5.6	90.4	30	36 - 130
Tetracosane (Surrogate)	BSG1719	Matrix Spike	0908002-81	ND	17.296	20.000	ug/L		86.5		28 - 139
		Matrix Spike Duplicate	0908002-81	ND	18.558	20.000	ug/L		92.8		28 - 139



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BSG1162	BSG1162-BS1	LCS	0.11056	0.12500	0.0050	mg/kg	88.4		70 - 130		
Toluene	BSG1162	BSG1162-BS1	LCS	0.11089	0.12500	0.0050	mg/kg	88.7		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1162	BSG1162-BS1	LCS	0.052474	0.050000		mg/kg	105		70 - 121		
Toluene-d8 (Surrogate)	BSG1162	BSG1162-BS1	LCS	0.050689	0.050000		mg/kg	101		81 - 117		
4-Bromofluorobenzene (Surrogate)	BSG1162	BSG1162-BS1	LCS	0.049616	0.050000		mg/kg	99.2		74 - 121		
Benzene	BSG1180	BSG1180-BS1	LCS	0.13634	0.12500	0.0050	mg/kg	109		70 - 130		
Toluene	BSG1180	BSG1180-BS1	LCS	0.13283	0.12500	0.0050	mg/kg	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1180	BSG1180-BS1	LCS	0.050262	0.050000		mg/kg	101		70 - 121		
Toluene-d8 (Surrogate)	BSG1180	BSG1180-BS1	LCS	0.050440	0.050000		mg/kg	101		81 - 117		
4-Bromofluorobenzene (Surrogate)	BSG1180	BSG1180-BS1	LCS	0.049144	0.050000		mg/kg	98.3		74 - 121		
Benzene	BSG1234	BSG1234-BS1	LCS	0.13584	0.12500	0.0050	mg/kg	109		70 - 130		
Toluene	BSG1234	BSG1234-BS1	LCS	0.13209	0.12500	0.0050	mg/kg	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1234	BSG1234-BS1	LCS	0.049567	0.050000		mg/kg	99.1		70 - 121		
Toluene-d8 (Surrogate)	BSG1234	BSG1234-BS1	LCS	0.051204	0.050000		mg/kg	102		81 - 117		
4-Bromofluorobenzene (Surrogate)	BSG1234	BSG1234-BS1	LCS	0.049344	0.050000		mg/kg	98.7		74 - 121		
Benzene	BSG1243	BSG1243-BS1	LCS	24.470	25.000	0.50	ug/L	97.9		70 - 130		
Toluene	BSG1243	BSG1243-BS1	LCS	25.580	25.000	0.50	ug/L	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1243	BSG1243-BS1	LCS	10.460	10.000		ug/L	105		76 - 114		
Toluene-d8 (Surrogate)	BSG1243	BSG1243-BS1	LCS	10.340	10.000		ug/L	103		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSG1243	BSG1243-BS1	LCS	9.4000	10.000		ug/L	94.0		86 - 115		
Benzene	BSG1398	BSG1398-BS1	LCS	0.13446	0.12500	0.0050	mg/kg	108		70 - 130		
Toluene	BSG1398	BSG1398-BS1	LCS	0.12485	0.12500	0.0050	mg/kg	99.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1398	BSG1398-BS1	LCS	0.050881	0.050000		mg/kg	102		70 - 121		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Toluene-d8 (Surrogate)	BSG1398	BSG1398-BS1	LCS	0.049997	0.050000		mg/kg	100		81 - 117		
4-Bromofluorobenzene (Surrogate)	BSG1398	BSG1398-BS1	LCS	0.048531	0.050000		mg/kg	97.1		74 - 121		

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Gasoline Range Organics (C4 - C12)	BSG1181	BSG1181-BS1	LCS	4.8981	5.0000	1.0	mg/kg	98.0		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1181	BSG1181-BS1	LCS	0.040200	0.040000		mg/kg	100		70 - 130		
Gasoline Range Organics (C4 - C12)	BSG1306	BSG1306-BS1	LCS	5.2338	5.0000	1.0	mg/kg	105		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1306	BSG1306-BS1	LCS	0.039600	0.040000		mg/kg	99.0		70 - 130		
Gasoline Range Organics (C4 - C12)	BSG1427	BSG1427-BS1	LCS	879.13	1000.0	50	ug/L	87.9		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1427	BSG1427-BS1	LCS	49.861	40.000		ug/L	125		70 - 130		



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Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Diesel Range Organics (C12 - C24)	BSG1609	BSG1609-BS1	LCS	13.119	16.892	2.0	mg/kg	77.7		50 - 136		
Tetracosane (Surrogate)	BSG1609	BSG1609-BS1	LCS	0.49615	0.67568		mg/kg	73.4		34 - 136		
Diesel Range Organics (C12 - C24)	BSG1719	BSG1719-BS1	LCS	458.12	500.00	50	ug/L	91.6		48 - 125		
Tetracosane (Surrogate)	BSG1719	BSG1719-BS1	LCS	19.439	20.000		ug/L	97.2		28 - 139		

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
Toluene	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BSG1162	BSG1162-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BSG1162	BSG1162-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
Ethanol	BSG1162	BSG1162-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BSG1162	BSG1162-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BSG1162	BSG1162-BLK1	108	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1162	BSG1162-BLK1	99.7	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1162	BSG1162-BLK1	101	%	74 - 121 (LCL - UCL)		
Benzene	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
Toluene	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BSG1180	BSG1180-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BSG1180	BSG1180-BLK1	ND	mg/kg	0.050		



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Diisopropyl ether	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
Ethanol	BSG1180	BSG1180-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BSG1180	BSG1180-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BSG1180	BSG1180-BLK1	108	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1180	BSG1180-BLK1	100	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1180	BSG1180-BLK1	102	%	74 - 121 (LCL - UCL)		
Benzene	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
Toluene	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BSG1234	BSG1234-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BSG1234	BSG1234-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
Ethanol	BSG1234	BSG1234-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BSG1234	BSG1234-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BSG1234	BSG1234-BLK1	107	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1234	BSG1234-BLK1	101	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1234	BSG1234-BLK1	101	%	74 - 121 (LCL - UCL)		
Benzene	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Ethylbenzene	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		
Toluene	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		
Total Xylenes	BSG1243	BSG1243-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BSG1243	BSG1243-BLK1	ND	ug/L	10		
Diisopropyl ether	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		
Ethanol	BSG1243	BSG1243-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSG1243	BSG1243-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BSG1243	BSG1243-BLK1	112	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1243	BSG1243-BLK1	101	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1243	BSG1243-BLK1	92.1	%	86 - 115 (LCL - UCL)		
Benzene	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		
Toluene	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BSG1398	BSG1398-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BSG1398	BSG1398-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		
Ethanol	BSG1398	BSG1398-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BSG1398	BSG1398-BLK1	ND	mg/kg	0.0050		



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

Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
1,2-Dichloroethane-d4 (Surrogate)	BSG1398	BSG1398-BLK1	107	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1398	BSG1398-BLK1	101	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1398	BSG1398-BLK1	95.9	%	74 - 121 (LCL - UCL)		

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

Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Gasoline Range Organics (C4 - C12)	BSG1181	BSG1181-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1181	BSG1181-BLK1	99.2	%	70 - 130 (LCL - UCL)		
Gasoline Range Organics (C4 - C12)	BSG1306	BSG1306-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1306	BSG1306-BLK1	98.0	%	70 - 130 (LCL - UCL)		
Gasoline Range Organics (C4 - C12)	BSG1427	BSG1427-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1427	BSG1427-BLK1	91.8	%	70 - 130 (LCL - UCL)		



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

Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Diesel Range Organics (C12 - C24)	BSG1609	BSG1609-BLK1	2.2252	mg/kg	2.0		M01
Tetracosane (Surrogate)	BSG1609	BSG1609-BLK1	71.5	%	34 - 136 (LCL - UCL)		
Diesel Range Organics (C12 - C24)	BSG1719	BSG1719-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	BSG1719	BSG1719-BLK1	87.2	%	28 - 139 (LCL - UCL)		



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

Project: 3737
Project Number: [none]
Project Manager: Alan Buehler

Reported: 08/10/2009 14:26

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A19 Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
- M01 Analyte detected in the Method Blank at or above the PQL.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- Z1 Combined two VOAs for a complete sample.



Laboratories, Inc.

Chain of Custody Form

Page ____ of ____

Report To: **Delta**
 Client: **Delta**
 Attn: **Alan Buehler**
 Street Address: **11050 White Rock Rd Suite 110**
 City, State, Zip: **Rancho Cordova, CA**
 Phone: **916-563-1273** Fax:
 Email Address: **abuehler@deltaenv.com**
 Work Order #: **09-09516**

Project #: **C103737051**
 Project Name: **3737 Emeryville**
 Global ID #:
 Sampler(s):

Analysis Requested

Please refer to the back of this form for a complete list of methods.

MTBE	BTEX	TPHS	TPHD	TPHE, ETBE PIPE	TBA, EDB, EDC	Other
8260	8260	8015	8015	8260	8260	

Comments:

Sample #	Description	Date Sampled	Time Sampled
CPT-1 @ 10-9'	1 Lamber & GUCAs	7/18/09	1:55P
CPT-1 @ 29-32'		7/18/09	4:00P
CPT-1 @ 56-53'		7/18/09	4:10P
CPT-1 @ 20'	1" steel tube 6" long	7/18/09	12:00 noon
CPT-1 @ 12'		7/18/09	12:05P
CPT-1 @ 22'		7/18/09	12:10P
CPT-1 @ 30'		7/18/09	12:15P
CPT-1 @ 50'		7/18/09	12:18P
CPT-3 @ 20'		7/19/09	7:45a
CPT-3 @ 36'		7/19/09	7:50a
CPT-3 @ 50'		7/19/09	8:00a
CPT-3 @ 19-22'	1 Lamber & GUCAs	7/19/09	8:30a
CPT-3 @ 36-38'		7/19/09	9:00a
CPT-3 @ 50-53'		7/19/09	9:45a

Sample Matrix

Soil	Sludge	Drinking Water	Ground Water	Waste Water	Other
			X		

Are there any tests with holding times less than or equal to 48 hours?
 Yes No

* Standard Turnaround = 10 work days

Turnaround # of work days*

Notes

7/22

AM

DISTRIBUTION

DATE _____

SUB-OUT

Billing Same as above

EDF Required? Yes No

Send Copy to State of CA? (EDT) Yes No

Client: _____
 Address: _____
 City: _____ State _____ Zip _____
 Attn: _____
 PO#: _____

Sample Disposal Return to Client Disposal by lab Archive: Months _____

Special Reporting QC EDF Raw Data

1. Relinquished By <i>AW Scott</i>	Date 7/19/09	Time 8:55p	1. Received By <i>in refrigerator</i>	Date 7/19/09	Time 8:55p
2. Relinquished By <i>AW Scott</i>	Date 7/21/09	Time 10:15a	2. Received By <i>Kass Dickey</i>	Date 7/21/09	Time 11:15a
3. Relinquished By <i>Kass Dickey</i>	Date 7/21/09	Time 1800	3. Received By <i>Refuge</i>	Date 7-21-09	Time 1800

Refuge 7/21/09 2115

cburg 07-21-09 2115

Chain of Custody Form

26

Report To: Client: <u>Delta</u>	Project #: <u>C103737057</u>
Attn: <u>Alan Buehler</u>	Project Name: <u>3737 Emergency</u>
Street Address: <u>6050 White Rock</u> ^{Suite 110}	Global ID #:
City, State, Zip: <u>Pancho Verde, CA</u>	Sampler(s):
Phone: <u>916-503-1273</u> Fax:	
Email Address: <u>abuehler@deltaenv.com</u>	
Work Order #: <u>09-09516</u>	

Analysis Requested					
MTBE	BTEX	TPHs	TPH	Tame, ETBE, DIPE	TSA, EDB, EDX, Ethanol
8260	8260	8015	8015	8260	8260
↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓
↓	↓	↓	↓	↓	↓

Comments:

Sample #	Description	Date Sampled	Time Sampled
CPT-2 @ 20	1" x 6" steel tube	7/19/09	1:00 P
CPT-2 @ 30	↓	7/19/09	1:05 P
CPT-2 @ 37	↓	7/19/09	1:08 P
CPT-2 @ 55	↓	7/19/09	1:10 P
CPT-2 @ 19-22	1 Lamber & 6 VOAs	7/19/09	1:55 P
CPT-2 @ 29-32	↓	7/19/09	2:15 P
CPT-2 @ 35-38	↓	7/19/09	2:30 P
CPT-2 @ 45	↓	7/19/09	3:30 P

Sample Matrix					Turnaround # of work days*	Are there any tests with holding times less than or equal to 48 hours? <input type="checkbox"/> Yes <input type="checkbox"/> No * Standard Turnaround = 10 work days
Soil	Sludge	Drinking Water	Ground Water	Waste Water		
X						Notes
X						
X						
X						
			X			
			X			
			X			
			X			

Billing	<input checked="" type="checkbox"/> Same as above	EDF Required? <input type="checkbox"/> Yes <input type="checkbox"/> No	Sample Disposal <input type="checkbox"/> Return to Client <input type="checkbox"/> Disposal by lab <input type="checkbox"/> Archive: Months _____	Special Reporting <input type="checkbox"/> QC <input type="checkbox"/> EDF <input type="checkbox"/> Raw Data
Client: _____			1. Relinquished By: <u>[Signature]</u> Date: <u>7/19/09</u> Time: <u>8:55 P</u>	1. Received By: <u>investigator</u> Date: <u>7/19/09</u> Time: <u>8:55 P</u>
Address: _____		Send Copy to State of CA? (EDT) <input type="checkbox"/> Yes <input type="checkbox"/> No	2. Relinquished By: <u>[Signature]</u> Date: <u>7/21/09</u> Time: <u>10:15 A</u>	2. Received By: <u>Ross W. [Signature]</u> Date: <u>7/21/09</u> Time: <u>11:15</u>
City: _____ State: _____ Zip: _____			3. Relinquished By: <u>Ross W. [Signature]</u> Date: <u>7/21/09</u> Time: <u>1800</u>	3. Received By: <u>R. [Signature]</u> Date: <u>7/21/09</u> Time: <u>1800</u>
Attn: _____				
PO#: _____				

Submission #: 09-09516

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest None Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments:

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

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

COC Received YES NO

Emissivity: 0.98 Container: QTA Thermometer ID: Tmlk3 Temperature: A 3.1 °C / C 2.8 °C

Date/Time 7/21/09 2113 Analyst Init JWD

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	12/	13/	14/	19/	20/	21/	22/
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PlA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A	A	A	A	A	A	A	A	A	A
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	B	B	B	B	B	B	B	B	B	B
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: Sample Numbering Completed By: JAM Date/Time: 7/22/09 0955 A = Actual / C = Corrected

Submission #: 09-09516

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest None Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments:

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

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

COC Received
 YES NO

Emissivity: ~~0.48~~ Container: ^{soil} sleeve Thermometer ID: ~~11083~~ JNW
Temperature: A 3.9 °C / C 3.9 °C 7/21/09

Date/Time 7/21/09 2113
Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	4	5	10	7	8	9	10	11	15	16
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PlA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: -10 Sample description does not match COC it said CPT-3 @ 36. -16 sample has no description
Sample Numbering Completed By: CAW Date/Time: 7/22/09
A = Actual / C = Corrected

Submission #: 09-D9510

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest None
 Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments:

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

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

COC Received

YES NO

Emissivity: 0.48 Container: soil sleeve Thermometer ID: TN082

Temperature: A 3.9 °C / C 3.9 °C 7/21/09

Date/Time 7/21/09 2113

Analyst Init JWD

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	17/	18/	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	((((((((((
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: AM

Date/Time: 7/22/09 0955

A = Actual / C = Corrected



Laboratories, Inc.

Environmental Testing Laboratory Since 1949



Date of Report: 08/07/2009

John Reay

Delta Environmental Consultants, Inc.

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

RE: 3737
BC Work Order: 0909744
Invoice ID: B066181

Enclosed are the results of analyses for samples received by the laboratory on 7/27/2009. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Molly Meyers
Client Service Rep

Authorized Signature



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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909744-01	COC Number:	---		07/27/2009 21:05	07/26/2009 14:50	---	Water			CPT-4	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CTP-4@20-23'											
	Sampled By:	DECR											
0909744-02	COC Number:	---		07/27/2009 21:05	07/26/2009 16:16	---	Water			CPT-4	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-4@52-55'											
	Sampled By:	DECR											
0909744-03	COC Number:	---		07/27/2009 21:05	07/25/2009 11:30	---	Water			CPT-5	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-5@28-31'											
	Sampled By:	DECR											
0909744-04	COC Number:	---		07/27/2009 21:05	07/25/2009 13:30	---	Water			CPT-5	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-5@52-55'											
	Sampled By:	DECR											



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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909744-05	COC Number:	---		07/27/2009 21:05	07/26/2009 09:45	---	Water			CPT-6	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-6@20-23'											
	Sampled By:	DECR											
0909744-06	COC Number:	---		07/27/2009 21:05	07/26/2009 11:00	---	Water			CPT-6	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-6@51-54'											
	Sampled By:	DECR											
0909744-07	COC Number:	---		07/27/2009 21:05	07/25/2009 18:00	---	Water			CPT-7	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-7@45-48'											
	Sampled By:	DECR											
0909744-08	COC Number:	---		07/27/2009 21:05	07/25/2009 19:00	---	Water			CPT-7	W	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-7@50-53'											
	Sampled By:	DECR											



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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Delivery Work Order:
0909744-09	COC Number:	---		07/27/2009 21:05		Global ID:
	Project Number:	3737		07/26/2009 13:20		Location ID (FieldPoint): CPT-4
	Sampling Location:	---		Sample Depth: ---		Matrix: SO
	Sampling Point:	CPT-4@22'		Sample Matrix: Solids		Sample QC Type (SACode): CS
	Sampled By:	DECR				Cooler ID:
0909744-10	COC Number:	---		07/27/2009 21:05		Global ID:
	Project Number:	3737		07/26/2009 13:30		Location ID (FieldPoint): CPT-4
	Sampling Location:	---		Sample Depth: ---		Matrix: SO
	Sampling Point:	CPT-4@39'		Sample Matrix: Solids		Sample QC Type (SACode): CS
	Sampled By:	DECR				Cooler ID:
0909744-11	COC Number:	---		07/27/2009 21:05		Global ID:
	Project Number:	3737		07/26/2009 13:45		Location ID (FieldPoint): CPT-4
	Sampling Location:	---		Sample Depth: ---		Matrix: SO
	Sampling Point:	CPT-4@53		Sample Matrix: Solids		Sample QC Type (SACode): CS
	Sampled By:	DECR				Cooler ID:
0909744-12	COC Number:	---		07/27/2009 21:05		Global ID:
	Project Number:	3737		07/25/2009 09:05		Location ID (FieldPoint): CPT-5
	Sampling Location:	---		Sample Depth: ---		Matrix: SO
	Sampling Point:	CPT-5@10'		Sample Matrix: Solids		Sample QC Type (SACode): CS
	Sampled By:	DECR				Cooler ID:



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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909744-13	COC Number:	---		07/27/2009 21:05	07/25/2009 09:10	---	Solids			CPT-5	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-5@30'											
	Sampled By:	DECR											
0909744-14	COC Number:	---		07/27/2009 21:05	07/25/2009 09:15	---	Solids			CPT-5	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-5@38'											
	Sampled By:	DECR											
0909744-15	COC Number:	---		07/27/2009 21:05	07/25/2009 09:30	---	Solids			CPT-5	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-5@46'											
	Sampled By:	DECR											
0909744-16	COC Number:	---		07/27/2009 21:05	07/25/2009 09:50	---	Solids			CPT-5	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-5@54'											
	Sampled By:	DECR											



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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909744-17	COC Number:	---		07/27/2009 21:05	07/26/2009 09:00	---	Solids			CPT-6	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-6@21'											
	Sampled By:	DECR											
0909744-18	COC Number:	---		07/27/2009 21:05	07/26/2009 09:10	---	Solids			CPT-6	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-6@38'											
	Sampled By:	DECR											
0909744-19	COC Number:	---		07/27/2009 21:05	07/26/2009 09:15	---	Solids			CPT-6	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-6@53'											
	Sampled By:	DECR											
0909744-20	COC Number:	---		07/27/2009 21:05	07/25/2009 16:00	---	Solids			CPT-7	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-7@39'											
	Sampled By:	DECR											



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			Receive Date:	Sampling Date:	Sample Depth:	Sample Matrix:	Delivery Work Order:	Global ID:	Location ID (FieldPoint):	Matrix:	Sample QC Type (SACode):	Cooler ID:
0909744-21	COC Number:	---		07/27/2009 21:05	07/25/2009 16:15	---	Solids			CPT-7	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-7@47'											
	Sampled By:	DECR											
0909744-22	COC Number:	---		07/27/2009 21:05	07/25/2009 16:30	---	Solids			CPT-7	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	CPT-7@52'											
	Sampled By:	DECR											
0909744-23	COC Number:	---		07/27/2009 21:05	07/25/2009 00:00	---	Solids			COMP 1	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	COMP 1 (Waste)											
	Sampled By:	DECR											
0909744-24	COC Number:	---		07/27/2009 21:05	07/25/2009 00:00	---	Solids			COMP 2	SO	CS	
	Project Number:	3737											
	Sampling Location:	---											
	Sampling Point:	COMP 2 (Waste)											
	Sampled By:	DECR											

Delta Environmental Consultants, Inc. 11050 White Rock Rd, Suite 110 Rancho Cordova, CA 95670	Project: 3737 Project Number: [none] Project Manager: John Reay	Reported: 08/07/2009 13:27
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Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
0909744-25	COC Number: --- Project Number: 3737 Sampling Location: --- Sampling Point: COMP H2O (Waste) Sampled By: DECR	Receive Date: 07/27/2009 21:05 Sampling Date: 07/25/2009 00:00 Sample Depth: --- Sample Matrix: Water	Delivery Work Order: Global ID: Location ID (FieldPoint): COMP H2O Matrix: W Sample QC Type (SACode): CS Cooler ID:



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-01		Client Sample Name:	3737, CTP-4@20-23', 7/26/2009 2:50:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	1.8	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
1,2-Dichloroethane	43	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
Ethylbenzene	0.84	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
Methyl t-butyl ether	1.3	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514	ND		
1,2-Dichloroethane-d4 (Surrogate)	96.6	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514			
Toluene-d8 (Surrogate)	98.7	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514			
4-Bromofluorobenzene (Surrogate)	98.7	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 06:31	SDU	MS-V10	1	BSG1514			



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Project: 3737
Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-01	Client Sample Name:	3737, CTP-4@20-23', 7/26/2009 2:50:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	56	ug/L	50		Luft	07/30/09	07/30/09 06:54	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	90.3	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 06:54	JJH	GC-V4	1	BSG1724		



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Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-01	Client Sample Name: 3737, CTP-4@20-23', 7/26/2009 2:50:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	66	ug/L	50		Luft/TPHd	07/29/09	08/05/09 05:28	OAA	GC-5	1	BSH0115	ND	
Tetracosane (Surrogate)	59.4	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 05:28	OAA	GC-5	1	BSH0115		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-02												
Client Sample Name:	3737, CPT-4@52-55', 7/26/2009 4:16:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	1.4	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
Ethylbenzene	2.1	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514	ND	
1,2-Dichloroethane-d4 (Surrogate)	100	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514		
Toluene-d8 (Surrogate)	91.2	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514		
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 06:49	SDU	MS-V10	1	BSG1514		



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Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-02		Client Sample Name: 3737, CPT-4@52-55', 7/26/2009 4:16:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	99	ug/L	50		Luft	07/30/09	07/30/09 07:18	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	102	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 07:18	JJH	GC-V4	1	BSG1724		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-02	Client Sample Name: 3737, CPT-4@52-55', 7/26/2009 4:16:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	91	ug/L	50		Luft/TPHd	07/29/09	08/05/09 05:42	OAA	GC-5	0.980	BSH0115	ND	
Tetracosane (Surrogate)	60.2	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 05:42	OAA	GC-5	0.980	BSH0115		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-03		Client Sample Name:	3737, CPT-5@28-31', 7/25/2009 11:30:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane	3.4	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
Methyl t-butyl ether	0.96	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513			
Toluene-d8 (Surrogate)	95.2	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513			
4-Bromofluorobenzene (Surrogate)	101	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:07	SDU	MS-V10	1	BSG1513			

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Project Number: [none]
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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-03	Client Sample Name:	3737, CPT-5@28-31', 7/25/2009 11:30:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	59	ug/L	50		Luft	07/30/09	07/30/09 07:43	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.2	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 07:43	JJH	GC-V4	1	BSG1724		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-03	Client Sample Name: 3737, CPT-5@28-31', 7/25/2009 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru- ment ID	Dilution	QC	MB	Lab
						Date	Date/Time				Batch ID	Bias	Quals
Diesel Range Organics (C12 - C24)	630	ug/L	50		Luft/TPHd	07/29/09	08/05/09 05:57	OAA	GC-5	1	BSH0115	ND	
Tetracosane (Surrogate)	68.9	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 05:57	OAA	GC-5	1	BSH0115		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-04	Client Sample Name:	3737, CPT-5@52-55', 7/25/2009 1:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513	ND	
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513		
Toluene-d8 (Surrogate)	92.4	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513		
4-Bromofluorobenzene (Surrogate)	96.1	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:24	SDU	MS-V10	1	BSG1513		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-04	Client Sample Name:	3737, CPT-5@52-55', 7/25/2009 1:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/30/09	07/30/09 08:07	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	88.0	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 08:07	JJH	GC-V4	1	BSG1724		

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Project: 3737
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Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-04	Client Sample Name:	3737, CPT-5@52-55', 7/25/2009 1:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	270	ug/L	50		Luft/TPHd	07/29/09	08/05/09 06:11	OAA	GC-5	1	BSH0115	ND	
Tetracosane (Surrogate)	61.0	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 06:11	OAA	GC-5	1	BSH0115		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-05		Client Sample Name: 3737, CPT-6@20-23', 7/26/2009 9:45:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane	1.5	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513			
Toluene-d8 (Surrogate)	97.1	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513			
4-Bromofluorobenzene (Surrogate)	98.2	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 07:42	SDU	MS-V10	1	BSG1513			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-05	Client Sample Name:	3737, CPT-6@20-23', 7/26/2009 9:45:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/30/09	07/30/09 13:03	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	82.3	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 13:03	JJH	GC-V4	1	BSG1724		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-05	Client Sample Name:	3737, CPT-6@20-23', 7/26/2009 9:45:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	ug/L	50		Luft/TPHd	07/29/09	08/05/09 06:25	OAA	GC-5	0.960	BSH0115	ND	
Tetracosane (Surrogate)	62.9	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 06:25	OAA	GC-5	0.960	BSH0115		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-06	Client Sample Name:	3737, CPT-6@51-54', 7/26/2009 11:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513	ND	
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513		
Toluene-d8 (Surrogate)	94.2	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513		
4-Bromofluorobenzene (Surrogate)	99.7	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:00	SDU	MS-V10	1	BSG1513		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-06	Client Sample Name:	3737, CPT-6@51-54', 7/26/2009 11:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/30/09	07/30/09 13:27	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	91.8	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 13:27	JJH	GC-V4	1	BSG1724		



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Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-06		Client Sample Name: 3737, CPT-6@51-54', 7/26/2009 11:00:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	50	ug/L	50		Luft/TPHd	07/29/09	08/05/09 07:23	OAA	GC-5	1	BSH0115	ND	
Tetracosane (Surrogate)	62.0	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 07:23	OAA	GC-5	1	BSH0115		



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Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-07		Client Sample Name: 3737, CPT-7@45-48', 7/25/2009 6:00:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane-d4 (Surrogate)	109	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513			
Toluene-d8 (Surrogate)	95.3	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513			
4-Bromofluorobenzene (Surrogate)	93.3	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:17	SDU	MS-V10	1	BSG1513			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-07	Client Sample Name:	3737, CPT-7@45-48', 7/25/2009 6:00:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/30/09	07/30/09 13:51	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	92.4	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 13:51	JJH	GC-V4	1	BSG1724		



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Project: 3737
Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-07		Client Sample Name: 3737, CPT-7@45-48', 7/25/2009 6:00:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	200	ug/L	50		Luft/TPHd	07/29/09	08/05/09 07:38	OAA	GC-5	1	BSH0115	ND	
Tetracosane (Surrogate)	65.6	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 07:38	OAA	GC-5	1	BSH0115		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-08		Client Sample Name:	3737, CPT-7@50-53', 7/25/2009 7:00:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
Ethylbenzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane-d4 (Surrogate)	106	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513			
Toluene-d8 (Surrogate)	94.2	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513			
4-Bromofluorobenzene (Surrogate)	98.2	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:35	SDU	MS-V10	1	BSG1513			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-08	Client Sample Name:	3737, CPT-7@50-53', 7/25/2009 7:00:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	ug/L	50		Luft	07/30/09	07/30/09 14:15	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	88.7	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 14:15	JJH	GC-V4	1	BSG1724		



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Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-08		Client Sample Name: 3737, CPT-7@50-53', 7/25/2009 7:00:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	110	ug/L	50		Luft/TPHd	07/29/09	08/05/09 07:52	OAA	GC-5	1	BSH0115	ND	
Tetracosane (Surrogate)	52.6	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 07:52	OAA	GC-5	1	BSH0115		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-09												
Client Sample Name:	3737, CPT-4@22', 7/26/2009 1:20:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415	ND	
1,2-Dichloroethane-d4 (Surrogate)	111	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415		
Toluene-d8 (Surrogate)	97.4	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415		
4-Bromofluorobenzene (Surrogate)	102	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 21:38	JSK	MS-V3	1	BSG1415		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-09		Client Sample Name: 3737, CPT-4@22', 7/26/2009 1:20:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 11:52	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	95.0	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 11:52	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-09		Client Sample Name: 3737, CPT-4@22', 7/26/2009 1:20:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 02:34	OAA	GC-5	0.957	BSH0151	ND	
Tetracosane (Surrogate)	69.7	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 02:34	OAA	GC-5	0.957	BSH0151		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-10		Client Sample Name:	3737, CPT-4@39', 7/26/2009 1:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane-d4 (Surrogate)	103	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415			
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415			
4-Bromofluorobenzene (Surrogate)	95.5	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 22:04	JSK	MS-V3	1	BSG1415			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-10	Client Sample Name: 3737, CPT-4@39', 7/26/2009 1:30:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	4.7	mg/kg	1.0		Luft	07/28/09	07/29/09 12:23	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	90.0	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 12:23	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-10	Client Sample Name: 3737, CPT-4@39', 7/26/2009 1:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 02:48	OAA	GC-5	0.980	BSH0151	ND	
Tetracosane (Surrogate)	82.6	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 02:48	OAA	GC-5	0.980	BSH0151		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-11		Client Sample Name:	3737, CPT-4@53, 7/26/2009 1:45:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415			
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415			
4-Bromofluorobenzene (Surrogate)	105	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 22:30	JSK	MS-V3	1	BSG1415			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-11	Client Sample Name: 3737, CPT-4@53, 7/26/2009 1:45:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 12:53	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	96.2	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 12:53	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-11	Client Sample Name: 3737, CPT-4@53, 7/26/2009 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 03:03	OAA	GC-5	0.950	BSH0151	ND	
Tetracosane (Surrogate)	85.7	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 03:03	OAA	GC-5	0.950	BSH0151		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-12		Client Sample Name: 3737, CPT-5@10', 7/25/2009 9:05:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617	ND		
1,2-Dichloroethane-d4 (Surrogate)	108	%	70 - 121 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617			
Toluene-d8 (Surrogate)	110	%	81 - 117 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617			
4-Bromofluorobenzene (Surrogate)	112	%	74 - 121 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 03:32	ADC	MS-V2	1	BSG1617			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-12	Client Sample Name:	3737, CPT-5@10', 7/25/2009 9:05:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	1.5	mg/kg	1.0		Luft	07/28/09	07/29/09 13:23	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.2	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 13:23	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-12		Client Sample Name: 3737, CPT-5@10', 7/25/2009 9:05:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	4.3	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 03:17	OAA	GC-5	1.017	BSH0151	ND	
Tetracosane (Surrogate)	86.0	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 03:17	OAA	GC-5	1.017	BSH0151		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-13		Client Sample Name:	3737, CPT-5@30', 7/25/2009 9:10:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane-d4 (Surrogate)	95.6	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415			
Toluene-d8 (Surrogate)	99.9	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415			
4-Bromofluorobenzene (Surrogate)	103	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 23:22	JSK	MS-V3	1	BSG1415			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-13	Client Sample Name:	3737, CPT-5@30', 7/25/2009 9:10:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 13:54	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	95.5	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 13:54	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-13	Client Sample Name: 3737, CPT-5@30', 7/25/2009 9:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 03:31	OAA	GC-5	0.987	BSH0151	ND	
Tetracosane (Surrogate)	71.5	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 03:31	OAA	GC-5	0.987	BSH0151		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-14	Client Sample Name:	3737, CPT-5@38', 7/25/2009 9:15:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415	ND	
1,2-Dichloroethane-d4 (Surrogate)	101	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415		
Toluene-d8 (Surrogate)	103	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415		
4-Bromofluorobenzene (Surrogate)	98.4	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/28/09 23:48	JSK	MS-V3	1	BSG1415		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-14	Client Sample Name:	3737, CPT-5@38', 7/25/2009 9:15:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 14:24	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.0	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 14:24	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-14		Client Sample Name: 3737, CPT-5@38', 7/25/2009 9:15:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 03:46	OAA	GC-5	1.014	BSH0151	ND	
Tetracosane (Surrogate)	76.5	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 03:46	OAA	GC-5	1.014	BSH0151		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-15		Client Sample Name: 3737, CPT-5@46', 7/25/2009 9:30:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane-d4 (Surrogate)	96.6	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415			
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415			
4-Bromofluorobenzene (Surrogate)	104	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 00:14	JSK	MS-V3	1	BSG1415			



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Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-15	Client Sample Name:	3737, CPT-5@46', 7/25/2009 9:30:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 14:54	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	94.5	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 14:54	JJH	GC-V8	1	BSG1600		



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Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-15		Client Sample Name: 3737, CPT-5@46', 7/25/2009 9:30:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	2.2	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 04:00	OAA	GC-5	0.944	BSH0151	ND	
Tetracosane (Surrogate)	84.9	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 04:00	OAA	GC-5	0.944	BSH0151		



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Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-16		Client Sample Name: 3737, CPT-5@54', 7/25/2009 9:50:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415			
Toluene-d8 (Surrogate)	102	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415			
4-Bromofluorobenzene (Surrogate)	105	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 00:40	JSK	MS-V3	1	BSG1415			



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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-16	Client Sample Name: 3737, CPT-5@54', 7/25/2009 9:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 15:25	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	96.5	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 15:25	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-16		Client Sample Name: 3737, CPT-5@54', 7/25/2009 9:50:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 04:15	OAA	GC-5	0.947	BSH0151	ND	
Tetracosane (Surrogate)	72.0	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 04:15	OAA	GC-5	0.947	BSH0151		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-17		Client Sample Name: 3737, CPT-6@21', 7/26/2009 9:00:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415	ND	
1,2-Dichloroethane-d4 (Surrogate)	95.1	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415		
Toluene-d8 (Surrogate)	99.2	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415		
4-Bromofluorobenzene (Surrogate)	94.5	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 01:06	JSK	MS-V3	1	BSG1415		



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Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-17		Client Sample Name: 3737, CPT-6@21', 7/26/2009 9:00:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 15:55	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	99.2	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 15:55	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-17		Client Sample Name: 3737, CPT-6@21', 7/26/2009 9:00:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 04:29	OAA	GC-5	1.003	BSH0151	ND	
Tetracosane (Surrogate)	79.0	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 04:29	OAA	GC-5	1.003	BSH0151		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-18	Client Sample Name:	3737, CPT-6@38', 7/26/2009 9:10:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415	ND	
1,2-Dichloroethane-d4 (Surrogate)	93.7	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415		
Toluene-d8 (Surrogate)	99.4	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415		
4-Bromofluorobenzene (Surrogate)	99.3	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 01:33	JSK	MS-V3	1	BSG1415		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-18		Client Sample Name: 3737, CPT-6@38', 7/26/2009 9:10:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 16:25	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	95.8	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 16:25	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-18		Client Sample Name: 3737, CPT-6@38', 7/26/2009 9:10:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 05:27	OAA	GC-5	0.997	BSH0151	ND	
Tetracosane (Surrogate)	76.8	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 05:27	OAA	GC-5	0.997	BSH0151		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-19	Client Sample Name:	3737, CPT-6@53', 7/26/2009 9:15:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617	ND	
1,2-Dichloroethane-d4 (Surrogate)	112	%	70 - 121 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617		
Toluene-d8 (Surrogate)	97.5	%	81 - 117 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617		
4-Bromofluorobenzene (Surrogate)	101	%	74 - 121 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 00:56	ADC	MS-V2	1	BSG1617		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-19		Client Sample Name: 3737, CPT-6@53', 7/26/2009 9:15:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 18:27	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.8	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 18:27	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-19		Client Sample Name: 3737, CPT-6@53', 7/26/2009 9:15:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 05:42	OAA	GC-5	0.984	BSH0151	ND	
Tetracosane (Surrogate)	84.6	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 05:42	OAA	GC-5	0.984	BSH0151		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-20		Client Sample Name: 3737, CPT-7@39', 7/25/2009 4:00:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415	ND		
1,2-Dichloroethane-d4 (Surrogate)	105	%	70 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415			
Toluene-d8 (Surrogate)	101	%	81 - 117 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415			
4-Bromofluorobenzene (Surrogate)	97.6	%	74 - 121 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 02:25	JSK	MS-V3	1	BSG1415			

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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-20	Client Sample Name:	3737, CPT-7@39', 7/25/2009 4:00:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 18:57	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.2	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 18:57	JJH	GC-V8	1	BSG1600		



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Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-20		Client Sample Name: 3737, CPT-7@39', 7/25/2009 4:00:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 05:56	OAA	GC-5	0.984	BSH0151	ND	
Tetracosane (Surrogate)	82.2	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 05:56	OAA	GC-5	0.984	BSH0151		



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Project Number: [none]
Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-21	Client Sample Name:	3737, CPT-7@47', 7/25/2009 4:15:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Benzene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
Toluene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
Ethanol	ND	mg/kg	1.0		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617	ND	
1,2-Dichloroethane-d4 (Surrogate)	109	%	70 - 121 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617		
Toluene-d8 (Surrogate)	95.9	%	81 - 117 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617		
4-Bromofluorobenzene (Surrogate)	96.5	%	74 - 121 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 01:21	ADC	MS-V2	1	BSG1617		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-21		Client Sample Name: 3737, CPT-7@47', 7/25/2009 4:15:00PM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/29/09 19:28	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	97.8	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/29/09 19:28	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-21	Client Sample Name: 3737, CPT-7@47', 7/25/2009 4:15:00PM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 06:11	OAA	GC-5	0.984	BSH0151	ND	
Tetracosane (Surrogate)	76.1	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 06:11	OAA	GC-5	0.984	BSH0151		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-22		Client Sample Name:	3737, CPT-7@52', 7/25/2009 4:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617	ND		
1,2-Dichloroethane-d4 (Surrogate)	110	%	70 - 121 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617			
Toluene-d8 (Surrogate)	99.6	%	81 - 117 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617			
4-Bromofluorobenzene (Surrogate)	100	%	74 - 121 (LCL - UCL)		EPA-8260	07/29/09	07/30/09 01:47	ADC	MS-V2	1	BSG1617			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-22	Client Sample Name:	3737, CPT-7@52', 7/25/2009 4:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	1.1	mg/kg	1.0		Luft	07/28/09	07/30/09 11:11	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	96.8	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/30/09 11:11	JJH	GC-V8	1	BSG1600		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-22	Client Sample Name:	3737, CPT-7@52', 7/25/2009 4:30:00PM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instrument ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	2.0		Luft/TPHd	07/29/09	08/06/09 06:25	OAA	GC-5	0.990	BSH0151	ND	
Tetracosane (Surrogate)	63.4	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 06:25	OAA	GC-5	0.990	BSH0151		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-23		Client Sample Name: 3737, COMP 1 (Waste), 7/25/2009 12:00:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
1,2-Dibromoethane	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
1,2-Dichloroethane	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
Ethylbenzene	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
Methyl t-butyl ether	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
Toluene	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
Total Xylenes	ND	mg/kg	0.050		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
t-Amyl Methyl ether	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
t-Butyl alcohol	ND	mg/kg	0.25		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
Diisopropyl ether	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
Ethanol	ND	mg/kg	5.0		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
Ethyl t-butyl ether	ND	mg/kg	0.025		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617	ND	A10	
1,2-Dichloroethane-d4 (Surrogate)	127	%	70 - 121 (LCL - UCL)		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617		A19,S09	
Toluene-d8 (Surrogate)	81.1	%	81 - 117 (LCL - UCL)		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617			
4-Bromofluorobenzene (Surrogate)	79.2	%	74 - 121 (LCL - UCL)		EPA-8260	07/30/09	07/30/09 10:47	ADC	MS-V2	5	BSG1617			

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-23	Client Sample Name: 3737, COMP 1 (Waste), 7/25/2009 12:00:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	5.0		Luft	07/28/09	07/30/09 16:17	JJH	GC-V8	5	BSG1600	ND	A10,Z1
a,a,a-Trifluorotoluene (FID Surrogate)	77.2	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/30/09 16:17	JJH	GC-V8	5	BSG1600		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-23	Client Sample Name:	3737, COMP 1 (Waste), 7/25/2009 12:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	ND	mg/kg	490		Luft/TPHd	07/29/09	08/06/09 06:39	OAA	GC-5	246.71	BSH0151	ND	A01,A52
Tetracosane (Surrogate)	0	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 06:39	OAA	GC-5	246.71	BSH0151		A01,A17,A52



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Concentrations (TTLIC)

BCL Sample ID: 0909744-23	Client Sample Name: 3737, COMP 1 (Waste), 7/25/2009 12:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	Prep	Run	Analyst	Instru-	Dilution	QC	MB	Lab
						Date	Date/Time		ment ID		Batch ID	Bias	Quals
Lead	13	mg/kg	2.5		EPA-6010 B	07/29/09	07/30/09 11:18	JDC	PE-OP2	1	BSG1659	ND	



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID:	0909744-24		Client Sample Name:	3737, COMP 2 (Waste), 7/25/2009 12:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
1,2-Dibromoethane	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
1,2-Dichloroethane	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
Ethylbenzene	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
Methyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
Toluene	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
Total Xylenes	ND	mg/kg	0.010		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
t-Amyl Methyl ether	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
t-Butyl alcohol	ND	mg/kg	0.050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
Diisopropyl ether	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
Ethanol	ND	mg/kg	1.0		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
Ethyl t-butyl ether	ND	mg/kg	0.0050		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617	ND		
1,2-Dichloroethane-d4 (Surrogate)	121	%	70 - 121 (LCL - UCL)		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617			
Toluene-d8 (Surrogate)	85.0	%	81 - 117 (LCL - UCL)		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617			
4-Bromofluorobenzene (Surrogate)	82.9	%	74 - 121 (LCL - UCL)		EPA-8260	07/30/09	07/30/09 11:13	ADC	MS-V2	1	BSG1617			



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-24		Client Sample Name: 3737, COMP 2 (Waste), 7/25/2009 12:00:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	ND	mg/kg	1.0		Luft	07/28/09	07/30/09 12:11	JJH	GC-V8	1	BSG1600	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	71.8	%	70 - 130 (LCL - UCL)		Luft	07/28/09	07/30/09 12:11	JJH	GC-V8	1	BSG1600		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-24	Client Sample Name: 3737, COMP 2 (Waste), 7/25/2009 12:00:00AM													
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru- ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Diesel Range Organics (C12 - C24)	ND	mg/kg	500		Luft/TPHd	07/29/09	08/06/09 06:54	OAA	GC-5	247.52	BSH0151	ND	A01,A52	
Tetracosane (Surrogate)	0	%	34 - 136 (LCL - UCL)		Luft/TPHd	07/29/09	08/06/09 06:54	OAA	GC-5	247.52	BSH0151		A01,A17,A52	

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Concentrations (TTLIC)

BCL Sample ID:	0909744-24	Client Sample Name:	3737, COMP 2 (Waste), 7/25/2009 12:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Lead	7.1	mg/kg	2.5		EPA-6010 B	07/29/09	07/30/09 11:20	JDC	PE-OP2	0.980	BSG1659	ND	



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

BCL Sample ID: 0909744-25		Client Sample Name: 3737, COMP H2O (Waste), 7/25/2009 12:00:00AM												
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals	
Benzene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
1,2-Dibromoethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
Ethylbenzene	0.59	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
Methyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
Toluene	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
Total Xylenes	ND	ug/L	1.0		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
t-Amyl Methyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
t-Butyl alcohol	ND	ug/L	10		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
Diisopropyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
Ethanol	ND	ug/L	250		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
Ethyl t-butyl ether	ND	ug/L	0.50		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513	ND		
1,2-Dichloroethane-d4 (Surrogate)	107	%	76 - 114 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513			
Toluene-d8 (Surrogate)	92.9	%	88 - 110 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513			
4-Bromofluorobenzene (Surrogate)	102	%	86 - 115 (LCL - UCL)		EPA-8260	07/28/09	07/29/09 08:52	SDU	MS-V10	1	BSG1513			



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Purgeable Aromatics and Total Petroleum Hydrocarbons

BCL Sample ID:	0909744-25	Client Sample Name:	3737, COMP H2O (Waste), 7/25/2009 12:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Gasoline Range Organics (C4 - C12)	77	ug/L	50		Luft	07/30/09	07/30/09 14:39	JJH	GC-V4	1	BSG1724	ND	
a,a,a-Trifluorotoluene (FID Surrogate)	106	%	70 - 130 (LCL - UCL)		Luft	07/30/09	07/30/09 14:39	JJH	GC-V4	1	BSG1724		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Total Petroleum Hydrocarbons

BCL Sample ID: 0909744-25		Client Sample Name: 3737, COMP H2O (Waste), 7/25/2009 12:00:00AM											
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Diesel Range Organics (C12 - C24)	150	ug/L	50		Luft/TPHd	07/29/09	08/05/09 08:07	OAA	GC-5	1	BSH0115	ND	
Tetracosane (Surrogate)	78.5	%	28 - 139 (LCL - UCL)		Luft/TPHd	07/29/09	08/05/09 08:07	OAA	GC-5	1	BSH0115		

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Water Analysis (Metals)

BCL Sample ID:	0909744-25	Client Sample Name:	3737, COMP H2O (Waste), 7/25/2009 12:00:00AM										
Constituent	Result	Units	PQL	MDL	Method	Prep Date	Run Date/Time	Analyst	Instru-ment ID	Dilution	QC Batch ID	MB Bias	Lab Quals
Total Lead	ND	ug/L	50		EPA-6010B	07/30/09	07/31/09 09:48	JDC	PE-OP2	1	BSG1710	ND	



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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Source Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery
Benzene	BSG1415	Matrix Spike	0908002-86	0	0.12017	0.12500	mg/kg		96.1		70 - 130
		Matrix Spike Duplicate	0908002-86	0	0.12118	0.12500	mg/kg	0.8	96.9	20	70 - 130
Toluene	BSG1415	Matrix Spike	0908002-86	0	0.12213	0.12500	mg/kg		97.7		70 - 130
		Matrix Spike Duplicate	0908002-86	0	0.12086	0.12500	mg/kg	1.0	96.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BSG1415	Matrix Spike	0908002-86	ND	0.044887	0.050000	mg/kg		89.8		70 - 121
		Matrix Spike Duplicate	0908002-86	ND	0.046892	0.050000	mg/kg		93.8		70 - 121
Toluene-d8 (Surrogate)	BSG1415	Matrix Spike	0908002-86	ND	0.051212	0.050000	mg/kg		102		81 - 117
		Matrix Spike Duplicate	0908002-86	ND	0.051852	0.050000	mg/kg		104		81 - 117
4-Bromofluorobenzene (Surrogate)	BSG1415	Matrix Spike	0908002-86	ND	0.050586	0.050000	mg/kg		101		74 - 121
		Matrix Spike Duplicate	0908002-86	ND	0.050458	0.050000	mg/kg		101		74 - 121
Benzene	BSG1513	Matrix Spike	0909743-12	0	24.450	25.000	ug/L		97.8		70 - 130
		Matrix Spike Duplicate	0909743-12	0	23.230	25.000	ug/L	5.1	92.9	20	70 - 130
Toluene	BSG1513	Matrix Spike	0909743-12	0	23.910	25.000	ug/L		95.6		70 - 130
		Matrix Spike Duplicate	0909743-12	0	22.860	25.000	ug/L	4.5	91.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BSG1513	Matrix Spike	0909743-12	ND	9.8800	10.000	ug/L		98.8		76 - 114
		Matrix Spike Duplicate	0909743-12	ND	9.9500	10.000	ug/L		99.5		76 - 114
Toluene-d8 (Surrogate)	BSG1513	Matrix Spike	0909743-12	ND	9.8600	10.000	ug/L		98.6		88 - 110
		Matrix Spike Duplicate	0909743-12	ND	9.9200	10.000	ug/L		99.2		88 - 110
4-Bromofluorobenzene (Surrogate)	BSG1513	Matrix Spike	0909743-12	ND	9.7100	10.000	ug/L		97.1		86 - 115
		Matrix Spike Duplicate	0909743-12	ND	9.7900	10.000	ug/L		97.9		86 - 115
Benzene	BSG1514	Matrix Spike	0909743-13	0	25.130	25.000	ug/L		101		70 - 130
		Matrix Spike Duplicate	0909743-13	0	23.420	25.000	ug/L	7.5	93.7	20	70 - 130
Toluene	BSG1514	Matrix Spike	0909743-13	0	24.440	25.000	ug/L		97.8		70 - 130
		Matrix Spike Duplicate	0909743-13	0	22.720	25.000	ug/L	7.3	90.9	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	BSG1514	Matrix Spike	0909743-13	ND	10.270	10.000	ug/L		103		76 - 114
		Matrix Spike Duplicate	0909743-13	ND	10.090	10.000	ug/L		101		76 - 114

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Project Manager: John Reay

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Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Toluene-d8 (Surrogate)	BSG1514	Matrix Spike	0909743-13	ND	10.170	10.000	ug/L		102		88 - 110	
		Matrix Spike Duplicate	0909743-13	ND	9.8000	10.000	ug/L		98.0		88 - 110	
4-Bromofluorobenzene (Surrogate)	BSG1514	Matrix Spike	0909743-13	ND	9.6800	10.000	ug/L		96.8		86 - 115	
		Matrix Spike Duplicate	0909743-13	ND	10.030	10.000	ug/L		100		86 - 115	
Benzene	BSG1617	Matrix Spike	0908002-89	0	0.12953	0.12500	mg/kg		104		70 - 130	
		Matrix Spike Duplicate	0908002-89	0	0.13494	0.12500	mg/kg	3.8	108	20	70 - 130	
Toluene	BSG1617	Matrix Spike	0908002-89	0	0.12439	0.12500	mg/kg		99.5		70 - 130	
		Matrix Spike Duplicate	0908002-89	0	0.12537	0.12500	mg/kg	0.5	100	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	BSG1617	Matrix Spike	0908002-89	ND	0.050079	0.050000	mg/kg		100		70 - 121	
		Matrix Spike Duplicate	0908002-89	ND	0.050664	0.050000	mg/kg		101		70 - 121	
Toluene-d8 (Surrogate)	BSG1617	Matrix Spike	0908002-89	ND	0.050646	0.050000	mg/kg		101		81 - 117	
		Matrix Spike Duplicate	0908002-89	ND	0.050019	0.050000	mg/kg		100		81 - 117	
4-Bromofluorobenzene (Surrogate)	BSG1617	Matrix Spike	0908002-89	ND	0.049401	0.050000	mg/kg		98.8		74 - 121	
		Matrix Spike Duplicate	0908002-89	ND	0.048043	0.050000	mg/kg		96.1		74 - 121	

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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Gasoline Range Organics (C4 - C12)	BSG1600	Matrix Spike	0908002-83	0	5.0020	5.0000	mg/kg		100		70 - 130	
		Matrix Spike Duplicate	0908002-83	0	4.9655	5.0000	mg/kg	0.7	99.3	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1600	Matrix Spike	0908002-83	ND	0.040400	0.040000	mg/kg		101		70 - 130	
		Matrix Spike Duplicate	0908002-83	ND	0.040700	0.040000	mg/kg		102		70 - 130	
Gasoline Range Organics (C4 - C12)	BSG1724	Matrix Spike	0909743-12	0	923.25	1000.0	ug/L		92.3		70 - 130	
		Matrix Spike Duplicate	0909743-12	0	866.70	1000.0	ug/L	6.3	86.7	20	70 - 130	
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1724	Matrix Spike	0909743-12	ND	37.275	40.000	ug/L		93.2		70 - 130	
		Matrix Spike Duplicate	0909743-12	ND	39.472	40.000	ug/L		98.7		70 - 130	

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Project Number: [none]
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Total Petroleum Hydrocarbons

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Diesel Range Organics (C12 - C24)	BSH0115	Matrix Spike	0908002-94	18.759	412.68	500.00	ug/L		78.8		36 - 130	
		Matrix Spike Duplicate	0908002-94	18.759	406.24	500.00	ug/L	1.7	77.5	30	36 - 130	
Tetracosane (Surrogate)	BSH0115	Matrix Spike	0908002-94	ND	17.623	20.000	ug/L		88.1		28 - 139	
		Matrix Spike Duplicate	0908002-94	ND	17.274	20.000	ug/L		86.4		28 - 139	
Diesel Range Organics (C12 - C24)	BSH0151	Matrix Spike	0908002-26	0.62120	15.371	16.722	mg/kg		88.2		40 - 137	
		Matrix Spike Duplicate	0908002-26	0.62120	15.229	16.949	mg/kg	2.3	86.2	30	40 - 137	
Tetracosane (Surrogate)	BSH0151	Matrix Spike	0908002-26	ND	0.58735	0.66890	mg/kg		87.8		34 - 136	
		Matrix Spike Duplicate	0908002-26	ND	0.59038	0.67797	mg/kg		87.1		34 - 136	

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Concentrations (TTLC)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits	
										RPD	Percent Recovery Lab Quals
Lead	BSG1659	Duplicate	0909718-01	108.81	95.265		mg/kg	13.3		20	
		Matrix Spike	0909718-01	108.81	209.57	98.039	mg/kg		103		75 - 125
		Matrix Spike Duplicate	0909718-01	108.81	213.89	98.039	mg/kg	3.8	107	20	75 - 125

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Water Analysis (Metals)

Quality Control Report - Precision & Accuracy

Constituent	Batch ID	QC Sample Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
										RPD	Percent Recovery	
Total Lead	BSG1710	Duplicate	0909729-01	13.038	ND		ug/L			20		A02
		Matrix Spike	0909729-01	13.038	416.07	400.00	ug/L		101		75 - 125	
		Matrix Spike Duplicate	0909729-01	13.038	429.46	400.00	ug/L	2.9	104	20	75 - 125	

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Benzene	BSG1415	BSG1415-BS1	LCS	0.12748	0.12500	0.0050	mg/kg	102		70 - 130		
Toluene	BSG1415	BSG1415-BS1	LCS	0.11750	0.12500	0.0050	mg/kg	94.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1415	BSG1415-BS1	LCS	0.048643	0.050000		mg/kg	97.3		70 - 121		
Toluene-d8 (Surrogate)	BSG1415	BSG1415-BS1	LCS	0.049743	0.050000		mg/kg	99.5		81 - 117		
4-Bromofluorobenzene (Surrogate)	BSG1415	BSG1415-BS1	LCS	0.049476	0.050000		mg/kg	99.0		74 - 121		
Benzene	BSG1513	BSG1513-BS1	LCS	26.680	25.000	0.50	ug/L	107		70 - 130		
Toluene	BSG1513	BSG1513-BS1	LCS	25.820	25.000	0.50	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1513	BSG1513-BS1	LCS	10.200	10.000		ug/L	102		76 - 114		
Toluene-d8 (Surrogate)	BSG1513	BSG1513-BS1	LCS	9.9300	10.000		ug/L	99.3		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSG1513	BSG1513-BS1	LCS	10.010	10.000		ug/L	100		86 - 115		
Benzene	BSG1514	BSG1514-BS1	LCS	25.730	25.000	0.50	ug/L	103		70 - 130		
Toluene	BSG1514	BSG1514-BS1	LCS	25.190	25.000	0.50	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1514	BSG1514-BS1	LCS	10.520	10.000		ug/L	105		76 - 114		
Toluene-d8 (Surrogate)	BSG1514	BSG1514-BS1	LCS	10.010	10.000		ug/L	100		88 - 110		
4-Bromofluorobenzene (Surrogate)	BSG1514	BSG1514-BS1	LCS	10.030	10.000		ug/L	100		86 - 115		
Benzene	BSG1617	BSG1617-BS1	LCS	0.13239	0.12500	0.0050	mg/kg	106		70 - 130		
Toluene	BSG1617	BSG1617-BS1	LCS	0.12604	0.12500	0.0050	mg/kg	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BSG1617	BSG1617-BS1	LCS	0.049566	0.050000		mg/kg	99.1		70 - 121		
Toluene-d8 (Surrogate)	BSG1617	BSG1617-BS1	LCS	0.050193	0.050000		mg/kg	100		81 - 117		
4-Bromofluorobenzene (Surrogate)	BSG1617	BSG1617-BS1	LCS	0.048211	0.050000		mg/kg	96.4		74 - 121		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

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Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Gasoline Range Organics (C4 - C12)	BSG1600	BSG1600-BS1	LCS	5.2809	5.0000	1.0	mg/kg	106		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1600	BSG1600-BS1	LCS	0.040900	0.040000		mg/kg	102		70 - 130		
Gasoline Range Organics (C4 - C12)	BSG1724	BSG1724-BS1	LCS	907.36	1000.0	50	ug/L	90.7		85 - 115		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1724	BSG1724-BS1	LCS	36.627	40.000		ug/L	91.6		70 - 130		

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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Diesel Range Organics (C12 - C24)	BSH0115	BSH0115-BS1	LCS	429.89	500.00	50	ug/L	86.0		48 - 125		
Tetracosane (Surrogate)	BSH0115	BSH0115-BS1	LCS	18.380	20.000		ug/L	91.9		28 - 139		
Diesel Range Organics (C12 - C24)	BSH0151	BSH0151-BS1	LCS	13.579	16.393	2.0	mg/kg	82.8		50 - 136		
Tetracosane (Surrogate)	BSH0151	BSH0151-BS1	LCS	0.49810	0.65574		mg/kg	76.0		34 - 136		

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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Concentrations (TTLC)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Lead	BSG1659	BSG1659-BS1	LCS	115.49	100.00	2.5	mg/kg	115		75 - 125		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Water Analysis (Metals)

Quality Control Report - Laboratory Control Sample

Constituent	Batch ID	QC Sample ID	QC Type	Result	Spike Level	PQL	Units	Percent Recovery	RPD	Control Limits		Lab Quals
										Percent Recovery	RPD	
Total Lead	BSG1710	BSG1710-BS1	LCS	440.34	400.00	50	ug/L	110		85 - 115		



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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Benzene	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
Ethylbenzene	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
Toluene	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BSG1415	BSG1415-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BSG1415	BSG1415-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
Ethanol	BSG1415	BSG1415-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BSG1415	BSG1415-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BSG1415	BSG1415-BLK1	101	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1415	BSG1415-BLK1	101	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1415	BSG1415-BLK1	102	%	74 - 121 (LCL - UCL)		
Benzene	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
Toluene	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
Total Xylenes	BSG1513	BSG1513-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BSG1513	BSG1513-BLK1	ND	ug/L	10		

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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Diisopropyl ether	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
Ethanol	BSG1513	BSG1513-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSG1513	BSG1513-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BSG1513	BSG1513-BLK1	98.9	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1513	BSG1513-BLK1	97.4	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1513	BSG1513-BLK1	100	%	86 - 115 (LCL - UCL)		
Benzene	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
1,2-Dibromoethane	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
Ethylbenzene	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
Methyl t-butyl ether	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
Toluene	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
Total Xylenes	BSG1514	BSG1514-BLK1	ND	ug/L	1.0		
t-Amyl Methyl ether	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
t-Butyl alcohol	BSG1514	BSG1514-BLK1	ND	ug/L	10		
Diisopropyl ether	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
Ethanol	BSG1514	BSG1514-BLK1	ND	ug/L	250		
Ethyl t-butyl ether	BSG1514	BSG1514-BLK1	ND	ug/L	0.50		
1,2-Dichloroethane-d4 (Surrogate)	BSG1514	BSG1514-BLK1	101	%	76 - 114 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1514	BSG1514-BLK1	98.4	%	88 - 110 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1514	BSG1514-BLK1	98.0	%	86 - 115 (LCL - UCL)		
Benzene	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		
1,2-Dibromoethane	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		



Delta Environmental Consultants, Inc.
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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Volatile Organic Analysis (EPA Method 8260)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Ethylbenzene	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		
Methyl t-butyl ether	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		
Toluene	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		
Total Xylenes	BSG1617	BSG1617-BLK1	ND	mg/kg	0.010		
t-Amyl Methyl ether	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		
t-Butyl alcohol	BSG1617	BSG1617-BLK1	ND	mg/kg	0.050		
Diisopropyl ether	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		
Ethanol	BSG1617	BSG1617-BLK1	ND	mg/kg	1.0		
Ethyl t-butyl ether	BSG1617	BSG1617-BLK1	ND	mg/kg	0.0050		
1,2-Dichloroethane-d4 (Surrogate)	BSG1617	BSG1617-BLK1	109	%	70 - 121 (LCL - UCL)		
Toluene-d8 (Surrogate)	BSG1617	BSG1617-BLK1	99.7	%	81 - 117 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BSG1617	BSG1617-BLK1	94.0	%	74 - 121 (LCL - UCL)		



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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Purgeable Aromatics and Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Gasoline Range Organics (C4 - C12)	BSG1600	BSG1600-BLK1	ND	mg/kg	1.0		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1600	BSG1600-BLK1	102	%	70 - 130 (LCL - UCL)		
Gasoline Range Organics (C4 - C12)	BSG1724	BSG1724-BLK1	ND	ug/L	50		
a,a,a-Trifluorotoluene (FID Surrogate)	BSG1724	BSG1724-BLK1	83.5	%	70 - 130 (LCL - UCL)		



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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Petroleum Hydrocarbons

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Diesel Range Organics (C12 - C24)	BSH0115	BSH0115-BLK1	ND	ug/L	50		
Tetracosane (Surrogate)	BSH0115	BSH0115-BLK1	82.5	%	28 - 139 (LCL - UCL)		
Diesel Range Organics (C12 - C24)	BSH0151	BSH0151-BLK1	ND	mg/kg	2.0		
Tetracosane (Surrogate)	BSH0151	BSH0151-BLK1	79.7	%	34 - 136 (LCL - UCL)		



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

Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Total Concentrations (TTLC)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Lead	BSG1659	BSG1659-BLK1	ND	mg/kg	2.5		

Delta Environmental Consultants, Inc.
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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Water Analysis (Metals)

Quality Control Report - Method Blank Analysis

Constituent	Batch ID	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
Total Lead	BSG1710	BSG1710-BLK1	ND	ug/L	50		



Delta Environmental Consultants, Inc.
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Project: 3737
Project Number: [none]
Project Manager: John Reay

Reported: 08/07/2009 13:27

Notes And Definitions

- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A10 PQL's and MDL's were raised due to matrix interference.
- 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.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- Z1 RAN SAMPLE SEVERAL TIMES NEEDED DILUTION DUE TO NEEDLE PLUGGING

BC Laboratories, Inc.

4100 Atlas Court
Bakersfield, CA 93308

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

ConocoPhillips Chain Of Custody Record

ConocoPhillips Site Manager: INVOICE REMITTANCE ADDRESS:	Terry Grayson CONOCOPHILLIPS Attn: Dee Hutchinson 3611 South Harbor, Suite 200 Santa Ana, CA. 92704	ConocoPhillips Work Order Number	DATE: <u>7/27/09</u>
		ConocoPhillips Cost Object	PAGE: <u>1</u> of <u>3</u>

SAMPLING COMPANY: Delta Environmental	Valid Value ID:	CONOCOPHILLIPS SITE NUMBER COP Site No. 3737, AOC# 3034	GLOBAL ID NO.:
ADDRESS: 11050 White Rock Road Suite 110, Rancho Cordova, CA 95670	SITE ADDRESS (Street and City): 1400 Powell St, Emeryville, CA		CONOCOPHILLIPS SITE MANAGER: Terry L. Grayson Phone No.: (916) 558-7666
PROJECT CONTACT (Hardcopy or PDF Report to): John Reay	TELEPHONE: 916-503-1260	FAX: 916-638-8385	E-MAIL: jreay@deltaenv.com
SAMPLER NAME(S) (Print): Alan Buehler		CONSULTANT PROJECT NUMBER C103737051	PROJECT Mgr: John Reay Field Staff: Alan Buehler PHONE NO.: Direct: (916) 503-1260 Mobile: (916) 903-4406 E-MAIL: Terry.L.Grayson@contractor.conocophillips.com

TURNAROUND TIME (CALENDAR DAYS): <input type="checkbox"/> 14 DAYS <input type="checkbox"/> 7 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		REQUESTED ANALYSES	
SPECIAL INSTRUCTIONS OR NOTES: ***10 Day Turn Around **Please cc report to Alan Buehler at abuehler@deltaenv.com * Field Point name only required if different from Sample ID		FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	

LAB USE ONLY	Sample Identification/Field Point Name*	SAMPLING		MATRIX	NO. OF CONT.	8015M - TPH-d	8260B #PHG/BTEX/MTBE/TAME/ETBE/DIPE/TBA/EDB/EDC/tetraol	Total Lead	* 8015-Gas only, no 8260 gas needed per John. MM 7/28	TEMPERATURE ON RECEIPT C°
		DATE	TIME							
1	CPT-4@20-23'	7/26/09	2:50p	GW	7	X	X			
2	CPT-4@52-55'	7/26/09	4:15p	GW	7	X	X			
3	CPT-5@28-31'	7/25/09	11:30a	GW	7	X	X			
4	CPT5@52-55'	7/25/09	1:30p	GW	7	X	X			
5	CPT-6@20-23'	7/26/09	9:45a	GW	7	X	X			
6	CPT-6@51-54'	7/26/09	11:00a	GW	7	X	X			
7	CPT-7@45-48'	7/25/09	6:00p	GW	7	X	X			
8	CPT-7@50-53'	7/25/09	7:00p	GW	7	X	X			
9	CPT-4@22'	7/26/09	1:20p	SOIL	1	X	X			
10	CPT-4@39'	7/26/09	1:30p	SOIL	1	X	X			

CHK BY: [Signature] DISTRIBUTION STORES SUB OUT

Relinquished by: (Signature) [Signature]	Received by: (Signature) Koss Nicolas BCLAB	Date: 7/27/09	Time: 1400
Relinquished by: (Signature) Koss Nicolas 7/27/09	Received by: (Signature) [Signature]	Date: 7-27-09	Time: 1800
Relinquished by: (Signature) [Signature] 7-27-09	Received by: (Signature) [Signature]	Date: 07-27-09	Time: 2105

Submission #: 01091414

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest None Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments:

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

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

COC Received YES NO

Emissivity: 0.95 Container: 01A Thermometer ID: T1103 Temperature: A 1.4 °C / C 1.4 °C

Date/Time 7-27-09 2108 Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										25
PT PE UNPRESERVED										B
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A	B	A	B	A	B	A	B	A	B
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER	B	B	B	B	B	B	B	B		C
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: Sample Numbering Completed By: AMB Date/Time: 7/28/09-850 A = Actual / C = Corrected

Submission #: 0909744

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest None Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received
 YES NO

Emissivity: _____ Container: SOIL SLEEVE Thermometer ID: TND82
Temperature: A 1.9 °C / C 1.9 °C JNW
7127

Date/Time 7-27-09
Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	17	18	19	20	21	22	23	24	9	10
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE	A	A	A	A	A	A	A	A		
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments:

Sample Numbering Completed By: AMB Date/Time: 7/28/09-850

A = Actual / C = Corrected

5

Submission #: 0909744

SHIPPING INFORMATION

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

SHIPPING CONTAINER

Ice Chest None Box Other (Specify) _____

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received
 YES NO

Emissivity: _____ Container: SDI sleeve Thermometer ID: TH082
Temperature: A 1.9 °C / C 1.9 °C JNW 7/27

Date/Time 7-27-09
Analyst Init JNW

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	7	8	9 ₃	10	11	12	13	14	15	16
QT GENERAL MINERAL/ GENERAL PHYSICAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE	A	A	A	A	A	A	A	A	A	A
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										

Comments: _____
Sample Numbering Completed By: AMB Date/Time: 7/28/09 8:50
A = Actual / C = Corrected

5

APPENDIX D

Boring Logs

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/18/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-1
 Page 1 of 3
LOCATION:
 NE corner near property
 mngmnt company

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
				135		1			
						2			Air Knife to 5'
						3			
						4			
						5			
						6			
						7	█	CL	Gray, gravely lean clay, 40% gravel, moist, mild odor
						8	█		
						9			
						10			
						11			
				22.7		12	█	CL	Brn, lean clay w/ gravel, 15% gravel, moist, slight odor
						13	█		
						14			
						15			
						16			
						17			
						18			
						19			
						20			
						21			
				26.2		22	█	CL	Brn, lean clay w/ sand, 15% sand, damp, mild, odor

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/18/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-1

Page 2 of 3

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
			3.6		23			
					24			
					25			
					26			
					27			
					28			
					29			
					30		CL	Grayish brn, lean clay, damp, no odor
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/18/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-1
 Page 3 of 3

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
				6.6		45			
						46			
						47			
						48			
						49			
						50		CL	Brn, gravely lean clay, 30% gravel, moist, mild odor
						51			
						52			
						53			
						54			
						55			
						56			
						57			
						58			
						59			
						60			TD= 60 ft
						61			
						62			
						63			
						64			
						65			
						66			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/18/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-2
 Page 1 of 3
LOCATION:
 SE corner near planter

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						1			
						2			Air Knife to 5'
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20		ML	Lt brn, sandy silt, 30% sand, moist, no odor
						21			
						22			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/18/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-2
 Page 2 of 3

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					23			
					24			
					25			
					26			
					27			
					28			
					29			
					30		CL	Brn/gray mottled, lean clay w/ sand, 20% sand, moist, no odor
					31			
					32			
					33			
					34			
					35			
					36			
					37		CL	Brn/gray mottled, lean lean clay, damp, no odor
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/18/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-2
 Page 3 of 3

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						45			
						46			
						47			
						48			
						49			
						50			
						51			
						52			
						53			
						54		CL	Brn, sandy lean clay w/ gravel, damp, no odor
						55			
						56			
						57			
						58			
						59			
						60			TD= 60 ft
						61			
						62			
						63			
						64			
						65			
						66			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/19/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-3
 Page 1 of 3
LOCATION:
 Immediately east of pump islands

Elevation: _____ Northing: _____ Easting: _____

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						1			
						2			Air Knife to 5'
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20		CL	Brn, lean clay w/ silt, damp, no odor
						21			
						22			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/19/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-3
 Page 2 of 3

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						23				
						24				
						25				
						26				
						27				
						28				
						29				
						30				
						31				
						32				
						33				
						34				
						35				
						36			CL	Grayish brn, lean clay w/ gravel, 20% gravel, damp, no odor
						37				
						38				
						39				
						40				
						41				
						42				
						43				
						44				

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/19/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-3
 Page 3 of 3

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing					45			
					46			
					47			
					48			
					49			
					50		CL	Brn, Sandy lean clay w/ gravel, moist, no odor
					51			
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			TD= 60 ft
					61			
					62			
					63			
					64			
					65			
					66			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/26/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-4
 Page 1 of 3
LOCATION:
 Immediately west of pump islands

Elevation: _____ Northing: _____ Easting: _____

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing									
						1				
						2				Air Knife to 5'
						3				
						4				
						5				
						6				
						7				
						8				
						9				
						10				
						11				
						12				
						13				
						14				
						15				
						16				
						17				
						18				
						19				
						20				
						21			CL	Grayish brn, lean clay w/ sand and gravel, 10% sand, 10% gravel, damp, no odor
						22				

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/26/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-4
 Page 2 of 3

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing						Recovery	Interval		
						23				
						24				
						25				
						26				
						27				
						28				
						29				
						30				
						31				
						32				
						33				
						34				
						35				
						36				
						37				
						38			CL	Grayish Brn, lean clay w/ gravel, 5% gravel, moist, no odor
						39				
						40				
						41				
						42				
						43				
						44				

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/26/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-4
 Page 3 of 3

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					45			
					46			
					47			
					48			
					49			
					50			
					51			
					52		CL	Brn, lean clay with gravel and sand, 10% gravel, 5% sand, moist, no odor
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			TD= 60 ft
					61			
					62			
					63			
					64			
					65			
					66			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/25/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-5
 Page 1 of 3
LOCATION:
 Middle of Pelandean St driveway on west side

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						1			
						2			Air Knife to 5'
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10		CL	Grayish brn, gravelly lean clay, 30% gravel, moist, mild odor
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			
						21			
						22			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/25/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-5
 Page 2 of 3

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill Casing	Water Level				23			
					24			
					25			
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38			
					39			
					40			
					41			
					42			
					43			
					44			
					37-38	CL	Brn, lean clay w/ gravel and sand, 10% gravel, 20% sand, damp, no odor	

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/25/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-5
 Page 3 of 3

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
					45			CL	Brn, lean clay w/ sand, 20% sand, damp, very mild odor
					46				
					47				
					48				
					49				
					50				
					51				
					52				
					53			SC	Brn, clayey sand w/ gravel, 75% coarse sand, 10% gravel, wet, no odor
					54				
					55				
					56				
					57				
					58				
					59				
					60				TD= 60 ft
					61				
					62				
					63				
					64				
					65				
					66				

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/26/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-6
 Page 1 of 3
LOCATION:
 NW corner of site near propane dispenser

Elevation: Northing: Easting:

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						1			
						2			Air Knife to 5'
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20		SM	Brn/blk mottled, silty sand w/ gravel, >50% sand,
						21			10% gravel, wet, no odor
						22			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/26/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-6

Page 2 of 3

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill					23			
Casing					24			
					25			
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37		SC	Brn, clayey sand w/ gravel, 20% gravel, moist, no odor
					38			
					39			
					40			
					41			
					42			
					43			
					44			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/26/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-6
 Page 3 of 3

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample		Soil Type	LITHOLOGY / DESCRIPTION
						Recovery	Interval		
					45				
					46				
					47				
					48				
					49				
					50				
					51				
					52				
					53				Brn, clayey sand w/ gravel, 20% gravel, damp, no odor
					54				
					55				
					56				
					57				
					58				
					59				
					60				TD= 60 ft
					61				
					62				
					63				
					64				
					65				
					66				

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/25/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-7
 Page 1 of 3
LOCATION:
 North edge of site along west wall of station building

Elevation: _____ Northing: _____ Easting: _____

Well Completion		Water Level	Moisture Content	PID Reading (ppm)	Sample Identification	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
						1			
						2			Air Knife to 5'
						3			
						4			
						5			
						6			
						7			
						8			
						9			
						10			
						11			
						12			
						13			
						14			
						15			
						16			
						17			
						18			
						19			
						20			
						21			
						22			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/25/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-7
 Page 2 of 3

Elevation: Northing: Easting:

Well Completion	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					23			
					24			
					25			
					26			
					27			
					28			
					29			
					30			
					31			
					32			
					33			
					34			
					35			
					36			
					37			
					38		CL	Brn, sandy lean clay w/ gravel, 20% sand, 10% gravel, damp, no odor
					39			
					40			
					41			
					42			
					43			
					44			

Delta

Environmental Consultants, Inc.

Project No: C103737051 Client: COP
 Logged By: Alan Buehler Location: Emeryville
 Driller: Gregg Date Drilled: 7/25/2009
 Drilling Method: CPT Hole Diameter: 2"
 Sampling Method: CPT Hole Depth: 60'
 Casing Type: n/a Well Diameter: n/a
 Slot Size: n/a Well Depth: n/a
 Gravel Pack: n/a

Boring/Well No: CPT-7
 Page 3 of 3

Elevation: Northing: Easting:

Well Completion Backfill Casing	Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
					45			
					46		CL	Brn, lean clay w/ sand, 5% sand, damp, no odor
					47			
					48			
					49			
					50			
					51		CL	Brn, lean clay w/ sand, 5% sand, saturated, no odor
					52			
					53			
					54			
					55			
					56			
					57			
					58			
					59			
					60			TD= 60 ft
					61			
					62			
					63			
					64			
					65			
					66			