

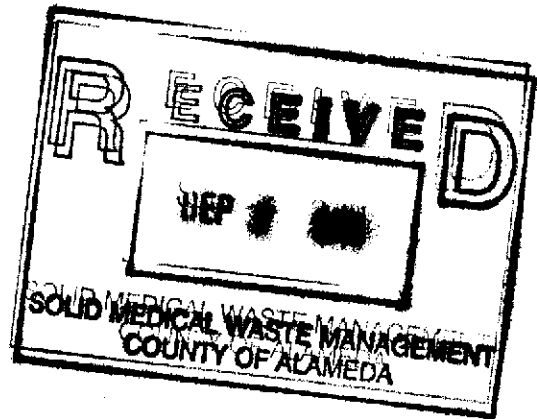


Shell Oil Products US

August 28, 2003

eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Shell-branded Service Station
1784 150th Avenue
San Leandro, California



Dear Ms. chu:

Attached for your review and comment is a copy of the *Soil and Water Investigation Report and Work Plan* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Karen Petryna
Sr. Environmental Engineer

August 28, 2003

Ms. eva chu
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Soil and Water Investigation Report and Work Plan**
Shell-branded Service Station
1784 150th Avenue
San Leandro, California
Incident #: 98996068
Project #: 245-0612-007



Dear Ms. chu:

Cambria Environmental Technology, Inc. (Cambria) is submitting this *Soil and Water Investigation Report and Work Plan* (SWI) on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell). The SWI was conducted in accordance with our March 10, 2003 *Soil and Water Investigation Work Plan and Well Screen Interval Evaluation* which was approved by Ms. Eva Chu of the Alameda County Health Care Services Agency (ACHCSA) in a letter dated May 5, 2003. The investigation's objectives were to define the extent of the methyl tertiary butyl ether (MTBE) and hydrocarbon plumes off site to the west and northwest of the site, and to provide data in determining the best locations and well screen intervals for additional monitoring wells. Presented below are summaries of the site background, investigation procedures, investigation results, and conclusions.

SITE BACKGROUND

Site Location: The site is an operating Shell service station located at the southern corner of 150th and Freedom Avenues in San Leandro, California (Figure 1).

Local Topography: The base of the San Leandro hills is approximately 0.25 miles to the northeast. The site is about 50 feet above mean sea level and the local topography slopes westward toward San Francisco Bay, approximately 6 miles to the west.

Surroundings: The site is surrounded by mixed commercial and residential development.

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Local Geology: Sediments beneath the site are Quaternary alluvial deposits derived from sedimentary and igneous rocks of the Diablo Range. The site is intersected by the Hayward Fault Zone. The site is underlain by low estimated permeability sediments (clay) with interspersed moderate estimated permeability sediments. During recent investigations at the site, soil consisted of silty clay, clayey silts and clayey sandy silts interlayered with sands and gravels to the total explored depth of 40 feet below grade (fbg).

Groundwater: Local drinking water is supplied by a utility, not groundwater. An area well survey in 1992 identified 21 wells within ½ mile of the site (Figure 1). No wells were immediately downgradient of the site. Groundwater depths have ranged between 17 and 30 fbg on site and between approximately 4 and 14 fbg in off-site well MW-4. Water level measurements have not shown a consistent or reliable groundwater flow direction, although the predominant groundwater flow direction since 1999 has been to the north-northwest. In June 2003, depth to groundwater measurements ranged from approximately 13 to 24 fbg, and the groundwater flow direction was to the northwest.

Previous Investigations

1986 Waste Oil Tank Removal: According to an October 13, 1989 letter from Weiss Associates (Weiss) to Shell, Petroleum Engineering of Santa Rosa, California removed a 550-gallon waste oil tank from the site in November 1986. Immediately following the tank removal, Blaine Tech Services (Blaine) of San Jose, California collected soil samples beneath the former tank at 8-foot and 11-foot depths. The soil samples contained petroleum oil and grease at 196 and 167 parts per million (ppm), respectively. The tank pit was overexcavated to a total depth of 16 feet, but soil samples were not collected. Groundwater was not encountered in the tank excavation. A new 550-gallon fiberglass waste oil tank was installed in the same location.

1990 Well Installation: In March 1990, Weiss installed soil boring BH-A, which was converted to groundwater monitoring well MW-1 adjacent to the waste oil tank. In a soil sample collected from 29 fbg, 35 ppm total petroleum hydrocarbons as gasoline (TPHg) and 0.23 ppm benzene were detected.

1992 Well Installations: In February 1992, Weiss installed soil borings BH-B and BH-C, which were converted to monitoring wells MW-2 and MW-3. A soil sample collected near the water table from the boring for well MW-2 contained 79 ppm TPHg. Although well MW-3 is located over 100 feet upgradient of the tanks, up to 68 ppm TPHg were detected in soil from this boring.

1994 Subsurface Investigation: In June 1994, Weiss drilled six soil borings (B-1 through B-6) around the site. No hydrocarbons were detected in soil samples from any borings, except for 0.013 ppm benzene in boring BH-3 at 16 fbg. Also, no hydrocarbons were detected in grab

groundwater samples from borings BH-1, BH-4, BH-5 and BH-6. Groundwater from borings BH-2 and BH-3 contained over 5,000 parts per billion (ppb) TPHg.

1995 Well Installation: In February and March 1995, Weiss drilled four soil borings (BH-7 through BH-10) and converted BH-10 to monitoring well MW-4. No petroleum hydrocarbons were detected in any of the soil samples. Up to 100 ppb TPHg and 1.0 ppb benzene were detected in grab groundwater samples from BH-7 and BH-9. No TPHg or benzene was detected in the grab groundwater sample from MW-4. Groundwater was not encountered in soil boring BH-8.



1996 Soil Vapor Survey and Soil Sampling: In July 1996, Weiss conducted a subsurface investigation to obtain site-specific data for a risk-based corrective action (RBCA) evaluation of the site. Soil vapor and soil samples were collected from the vadose zone at 10 on- and off-site locations (SVS-1 through SVS-10). The highest soil vapor hydrocarbon concentrations were detected near the northwest corner of the underground storage tank complex (SVS-5 at 3.0 feet bgs contained 7,600 parts per billion by volume [ppmv] benzene). No TPHg, benzene, toluene, ethylbenzene, and xylenes (BTEX), or MTBE was detected in any of the soil samples except for 1.1 ppm TPHg detected in sample SVS-5 at 18-20 fbg. Weiss concluded that depleted oxygen concentrations and elevated carbon dioxide and methane concentrations in the vadose zone indicated that biodegradation was occurring.

1997 RBCA Evaluation: In 1997, Weiss prepared a RBCA evaluation for the site. Results of the RBCA analysis indicated that concentrations of BTEX, MTBE, 1,2-dichloroethane, and tetrachloroethane detected in soil and groundwater beneath the site did not exceed a target risk level of 10^{-5} for residential indoor or outdoor air exposure pathways. However, a risk threshold exceedance was identified associated with ingestion of groundwater from a hypothetical well 25 feet downgradient of the source.

1997 Dispenser and Turbine Sump Upgrade: The dispensers and turbine sumps at the station were upgraded in December 1997. Cambria collected soil samples Disp-A through Disp-D from beneath the dispenser islands during upgrade activities. Up to 590 ppm TPHg (Disp-C at 4.5 feet bgs), 1.8 ppm benzene (Disp-C at 2.0 feet bgs) and 1.4 ppm MTBE (Disp-C at 2.0 feet bgs) were detected.

1998 Soil Vapor Survey and Soil Sampling: In November 1998, Cambria conducted a subsurface investigation to obtain site-specific data for a RBCA evaluation of the site. Soil samples, soil vapor samples and grab groundwater samples were collected from the vadose zone at three on-site and three off-site locations (SVS-11 through SVS-16). In soil vapor, maximum concentrations of 2.7 ppmv TPHg (C5+ hydrocarbons) and 0.17 ppmv TPHg (C2-C4 hydrocarbons) were detected in borings SVS-14 and SVS-15, respectively, at 10 fbg. A

maximum concentration 0.0099 ppmv benzene was detected in SVS-16 at 5 fbg. In soil, 1.6 ppm TPHg and 0.005 ppm benzene were detected in boring SVS-11 at 19.5 fbg. No TPHg or benzene was detected in any other soil samples. MTBE was reported at 0.029 ppm in boring SVS-14 at 19 fbg using EPA Method 8020; however, MTBE was not detected in this sample using EPA Method 8260. TPHg, and benzene were detected using EPA Method 8020 in groundwater from borings SVS-11 and SVS-12. The highest concentrations (130,000 ppb TPHg and 18,000 ppb benzene) were detected in SVS-11. MTBE was reported at a concentration of 1,500 ppb in boring SVS-11 by EPA Method 8020, but not confirmed by EPA Method 8260.



1999 RBCA Evaluation: In September 1999, Cambria prepared a RBCA evaluation for the site. Cambria analyzed the following potential exposure pathways: off-site ingestion of groundwater, on-site ingestion of surficial soil, volatilization of benzene from soil or groundwater into on-site or off-site indoor air, and migration of benzene soil vapor to on-site or off-site outdoor air. Results of Tier 1 and Tier 2 RBCA analysis indicated that contaminants within soil and groundwater did not present significant health risks.

October 2001 Off-Site Monitoring Well Installation: Two monitoring wells (MW-5, MW-6) were installed off site to the southwest. Soil sample results collected during this investigation indicated only minimal MTBE impact to off-site soil southwest of the site. This finding is corroborated by Cambria's 1998 subsurface investigation, in which no TPHg or benzene and only low MTBE concentrations were detected in soil from three borings (SVS-14 through SVS-16) along the private driveway. In these wells, benzene has been detected only in MW-4, in June and September 2002, at a maximum concentration of 1.4 ppb. MTBE has not been detected in groundwater from either of these wells; however, TPHg, toluene, ethylbenzene and xylene have been detected in groundwater from well MW-5 at concentrations of 650 ppb, 3.0 ppb, 52 ppb, and 28 ppb, respectively.

October 2002 Off-Site Monitoring Well Installation: Two monitoring wells and one soil boring (MW-7, MW-8, and SB-9) were installed off site to the northwest of the site in 150th Avenue. Soil sample results collected during this investigation indicated minimal MTBE, BTEX and TPHg impact to off-site soil northwest of the site. However, grab groundwater samples indicated benzene and TPHg compounds were present at elevated concentrations in groundwater northwest of the site in 150th Avenue.

Groundwater Monitoring: Groundwater has been sampled quarterly since March 1990. Groundwater samples from MW-2 have contained the highest TPHg and benzene concentrations, up to 160,000 ppb and 36,000 ppb, respectively. Although hydrocarbons have been detected in water from wells MW-1 and MW-3, no hydrocarbons have been detected in water from downgradient well MW-4 except in second quarter of 2003, and laboratory notes indicate that the detected hydrocarbons do not match the laboratory standard. New wells MW-7 and MW-8 have

contained up to 49,000 ppb TPHg and 830 ppb benzene, but MTBE has not been detected in these wells. MW-7 and MW-8 have been inaccessible since the City of San Leandro resurfaced 150th Avenue with asphalt in early 2003, and covered the well locations. Cambria is currently in the process of relocating and restoring the well vaults to the current grade so that quarterly monitoring of these wells can resume.

INVESTIGATION PROCEDURES



Cambria supervised the installation of one on-site and six off-site 2¼-inch diameter soil borings (Figure 2). As requested by ACHCSA, one of the soil borings was installed near BH-5 on Portofino Circle (Figure 2). Four borings were installed along Portofino Circle, one boring was installed on 150th Avenue near former boring SVS-9 and the on-site boring was installed north of the dispenser islands. Gregg Drilling Inc. (Gregg) of Martinez California installed the soil borings using a direct push drill rig. Cambria's Standard Procedures for Geoprobe® soil sampling are included as Attachment A.

Permits: Cambria obtained a soil boring installation permit from the Alameda County Public Works Agency for all seven soil borings (Permit # W03-0464). As required by the City of San Leandro, Cambria also obtained an encroachment permit from the City in order to Geoprobe® in the public right-of-way. Copies of the soil boring and encroachment permits are included as Attachment B.

Soil Sampling Dates: June 23 through June 26, 2003

Geoprobe® Company: Gregg (C-57 License #485165)

Personnel Present: Stewart Dalie, Staff Geologist, Cambria
Rich Nessinger, Driller, Gregg

Boring Method: 2¼-inch diameter direct push, Geoprobe®

Number of Borings: Seven: SB-10 through SB-16

Boring Depths: All soil borings were advanced approximately 10 to 15 fbg into the saturated zone to total depths between 32 and 40 fbg (Attachment C).

Soil Sampling Method:

Soil samples were collected continuously using a direct push drill rig with acetate liners. One soil sample was obtained at the capillary fringe, and one grab groundwater sample from each boring was obtained using the direct push drill rig.

Sediment Lithology:

Soil encountered in the borings consisted predominantly of asphalt and road base to 3 fbg, clay to 12.5 fbg, and clayey silts and silty gravel with sand and gravels interlayered with silts and poorly graded gravels and sands to the total explored depth of 40 fbg (Attachment C).

***Groundwater Depths:***

Initial groundwater was encountered between 24 and 28 fbg during drilling activities. However, static groundwater depths in the soil borings were measured between 7.5 and 20 fbg after the completion of the borings. These measurements may not be indicative of true groundwater conditions as the borings were very recently measured after initial intrusion into the aquifer, and hydrostatic pressures may not have had adequate time to equilibrate.

Chemical Analyses:

Selected soil samples collected from the borings were analyzed by a State-certified laboratory for TPHg, BTEX, MTBE, and fuel oxygenates tert-butyl alcohol, ethyl tert-butyl ether, tert-amyl methyl ether, di-isopropyl ether, 1,2-dichloroethane, ethylene dibromide, and ethanol using EPA Method 8260B. Analytical results from the prior stockpile of the October 2002 investigation were used to characterize stockpiled soil cuttings from the borings for waste profiling and disposal purposes. The samples had been analyzed by Kiff Analytical LLC of Davis, California for TPHg, BTEX and MTBE using EPA Method 8260B, and for total threshold limit concentration lead.

***Stockpile Soil Sampling
And Disposal:***

Soil cuttings produced from the borings were wrapped in plastic sheeting, labeled and temporarily stockpiled on the site. Soil cuttings produced from the borings were directly loaded and transported on July 7, 2003 by Manley and Sons Trucking Company of Sacramento, California to Forward Landfill in Manteca, California for disposal (Attachment D).

INVESTIGATION RESULTS

Chemical Distribution in Soil: No MTBE was detected in any soil sample collected during the current investigation. TPHg was detected only in soil samples SB-11-30' and SB-15-36' at concentrations of 650 ppm and 1.4 ppm, respectively. Benzene was detected only in soil sample SB-11-35' at 0.10 ppm. Based on typical groundwater depths in nearby well MW-7, it is likely that samples SB-11-30' and SB-15-36' were saturated, and results may be more indicative of chemical concentrations in groundwater.



Of the 125 soil samples collected at and near the site since March 1990, 25 samples contained detectable level of hydrocarbons, and chemical concentrations in unsaturated soil were generally low. Analytical results for the soil samples collected during this and previous investigations at the site are summarized in Table 1. The certified analytical laboratory reports for this investigation are included as Attachment E.

Chemical Distribution in Groundwater: During the current investigation, MTBE was detected only in on-site grab groundwater sample SB-15-W at 40 ppb. The highest TPHg concentration was detected in SB-14-W at 67,000 ppb, and the highest benzene concentration was detected in SB-15-W at 530 ppb.

Of the 15 grab-groundwater samples collected during this and previous subsurface investigations at this site, elevated concentrations of hydrocarbons were detected in eight grab-groundwater samples. On-going quarterly groundwater monitoring results confirm that elevated concentrations of TPHg and BTEX compounds exist in groundwater beneath the site and to the west-northwest of the site.

MTBE has been detected on site in groundwater in wells MW-1 and MW-2, and in boring SB-15 using EPA Method 8260. MTBE was also reported in grab groundwater sample SVS-11-W1 using EPA Method 8020. Off site, MTBE has only been detected in groundwater in well MW-4 once, at a concentration of 12 ppb, during the June 2003 monitoring event.

The chemical plume in groundwater is defined to the southwest by consistently low to non-detect concentrations in wells MW-5 and MW-6, and by non-detect concentrations in grab groundwater samples SVS-14-W1 and SVS-15-W1. The plume is defined to the west by grab groundwater samples from SVS-16-W1, SB-10 and SB-16, and by consistently low to non-detect concentrations in off-site monitoring well MW-4. The plume is defined to the northwest by non-detect concentrations in groundwater from boring SB-12, located approximately 150 feet off site and to the northeast by consistently low quarterly groundwater monitoring results in MW-3.

Elevated TPHg and benzene concentrations were detected in groundwater from SB-15 at concentrations of 6,800 ppb, and 530 ppb, respectively, suggesting that the plume is not completely defined to the north of the site.

Five borings (SB-10, SB-12, SB-13, SB-14 and SB-16) were installed along Portofino Circle in an effort to define the plume to the west-northwest of the site. Although no MTBE was detected in any of these borings, TPHg and BTEX compounds were detected in groundwater in all except SB-12 and only trace in SB-16. TPHg was detected in groundwater from one boring, SB-14, at a concentration of 67,000 ppb. Although no TPHg was detected in groundwater from adjacent borings SB-10 and SB-13, BTEX compounds were detected. These concentrations indicate that the plume is not defined to the west-northwest of the site.

No soil or groundwater samples have been collected southeast of monitoring well MW-1. Given the current concentrations in MW-1 groundwater, the plume is not defined to the southeast of the site.

Analytical results for the grab groundwater samples are summarized in Table 2, and the certified analytical laboratory reports are included as Attachment E.

GEOLOGICAL CROSS SECTIONS

Cross sections based on boring log data from the current and previous investigations are provided in Figures 3 through 5. In the May 5, 2003 letter, ACHCSA requested that geologic cross sections be included with this report.

The May 5, 2003 ACHCSA letter also indicated that lithological and other site data would be used to determine whether a well with a shorter screen interval is required near MW-2. As noted in Cambria's March 10, 2003 *Soil and Water Investigation Work Plan and Well Screen Interval Evaluation*, Cambria believes that the well screen intervals in existing on- and off-site wells are adequate for the purpose of monitoring hydrocarbon concentrations in shallow groundwater at this site. Therefore we do not recommend replacing or supplementing any existing wells with nearby shorter-screened wells.

Comparison of well and boring log data is complicated by the different methods of investigation used, and by the potentially different logging procedures used by different staff at different times. However, a transect of recent investigation results for SB-16, SB-10, SB-13 and SB-12 (Figure 4) shows that the area lithology is vertically and horizontally discontinuous. This is consistent with the site's location at the base of the San Leandro Hills, where the depositional environment would

be typified by meandering outwashes of alluvial deposits from periodic rainfall and erosional events. Figure 3 shows a west-northwesterly to east-southeasterly cross section, which has a slight apparent westerly dip to the layers of fine and coarse-grained sediments. Figure 5 shows a southwesterly to northeasterly cross section, which has a stronger westerly dip to the layers of fine and coarse-grained sediments.

Based on the observed rises in groundwater from initially encountered depths to static depths during the recent investigation, it appears that the overlying fine-grained sediment layer creates a somewhat confined groundwater condition within the coarse-grained permeable zone. Based on the recently observed depths to first-encountered groundwater, as shown on Figures 3, 4 and 5, it appears that the saturated permeable zones trend deeper to the west. Since the borings were not left open for comparison of static water levels, a clear evaluation of the hydrostatic gradient cannot be made.



CONCLUSIONS, RECOMMENDATIONS, AND WORK PLAN

During the current investigation, soil borings were advanced to approximately 15 feet below the depth of first-encountered groundwater. Soil samples were collected and analyzed at 5-foot intervals to the total depth of the boring to provide an indication of the vertical distribution of chemicals in soil and groundwater. Grab groundwater samples were collected from each boring. Current and historical soil sample results indicate that neither saturated nor unsaturated soil at and in the site vicinity appear to be significantly impacted by hydrocarbons or MTBE. However, the hydrocarbon plume in groundwater appears to be elongated narrowly to the west-northwest of the site along a line from MW-1 to MW-2 to MW-8 and SB-9 to SB-14. The proportions of TPHg and BTEX concentrations and the absence of MTBE in off-site groundwater samples suggest weathered gasoline and support a previous conclusion that no new release has occurred at the site.

No analytes were detected in any soil samples from off-site borings in Portofino Circle, approximately 150 feet northwest of the site. However, TPHg and BTEX compounds were detected in a cluster of grab-groundwater samples SB-10, SB-13 and SB-14, with the highest concentrations detected in SB-14. During the investigation, the static groundwater level in off-site borings along Portofino Circle rose approximately 10 to 16 feet above the first encountered groundwater level. Boring logs indicate that there is a more permeable layer below approximately 24 feet. To further investigate the extent of the hydrocarbon impact to groundwater west-northwest of the site, Cambria proposes to install monitoring well MW-9, screened from approximately 30 to 35 fbg, in the vicinity of soil boring SB-14 (Figure 2).

Along 150th Avenue, TPHg and BTEX compounds were detected in saturated soil from boring SB-11 at 30 fbg. This result is confirmed by the detection of low concentrations of TPHg and BTEX compounds in groundwater from this boring. These results are consistent with a west-northwest-trending groundwater hydrocarbon plume. SB-11 appears to be at the edge of that plume. Since no chemicals were detected in downgradient soil boring SB-12, no further investigation to the northeast along 150th Avenue or Portofino Circle is recommended at this time. Furthermore, there are physical obstacles including underground and overhead utilities, a freeway entrance, and a sound barrier wall that obstruct additional subsurface investigation in this area.



Due to the elevated hydrocarbon concentrations detected in groundwater from soil boring SB-15, installed approximately 20 feet north of the dispenser islands at the edge of the site, Cambria recommends installing monitoring MW-10 in that area (Figure 2). Cambria proposes that MW-10 will be screened from 27 fbg to 32 fbg to monitor groundwater within the clayey gravel and silty sand where groundwater was first encountered in SB-15.

The current investigation and ongoing groundwater monitoring indicate that MTBE in groundwater has not migrated significantly off site.

To date, no investigation has been conducted southeast of the site. Therefore, Cambria recommends installing soil borings SB-17 and SB-18 southeast of the site (Figure 2) and collecting soil and grab groundwater samples to completely define the chemical plume in soil and groundwater at the site.

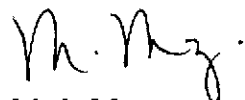
SCHEDULE

Upon receipt of written approval from ACHCSA to proceed with installing the proposed monitoring wells (MW-9 and MW-10) and soil borings (SB-17 and SB-18), Cambria will submit permit applications and schedule the field work.

CLOSING

Please call Melody Munz at (510) 420-3324, if you have any questions or comments.

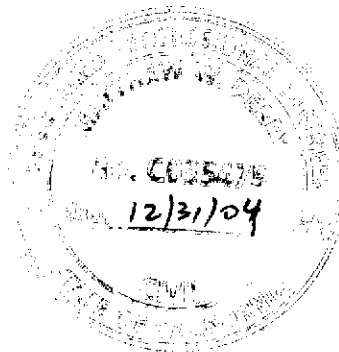
Sincerely,
Cambria Environmental Technology, Inc.



Melody Munz
Project Engineer



Matthew W. Derby, P.E.
Senior Project Engineer



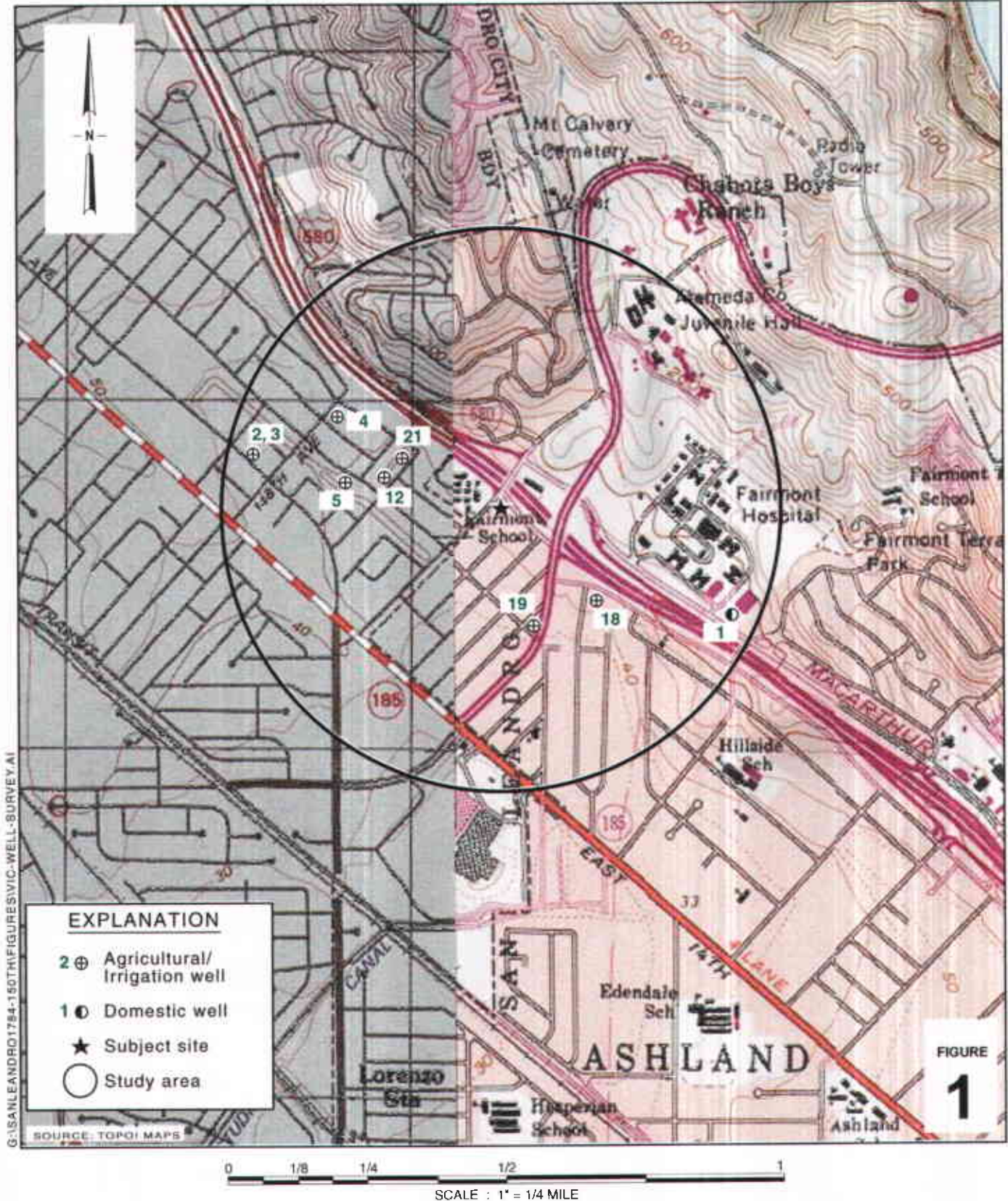
Figures: 1 - Vicinity/Area Well Survey Map
 2 - Soil Boring Location Map
 3 - Section A-A'
 4 - Section B-B'
 5 - Section C-C'

Tables: 1 - Soil Analytical Results
 2 - Groundwater Analytical Results

Attachments: A - Standard Procedures for Geoprobe® Soil Sampling
 B - Permits
 C - Boring Logs
 D - Disposal Confirmation Report
 E - Certified Laboratory Reports

cc: Karen Petryna, Shell Oil Products US, P.O. Box 7869, Burbank, CA. 91510-7869
 Victor Lemon, City of San Leandro, Engineering and Transportation Division,
 835 East 14th Street, San Leandro, CA. 94577
 City of San Leandro, Environmental Division, 835 East 14th Street, San Leandro, CA.
 94577

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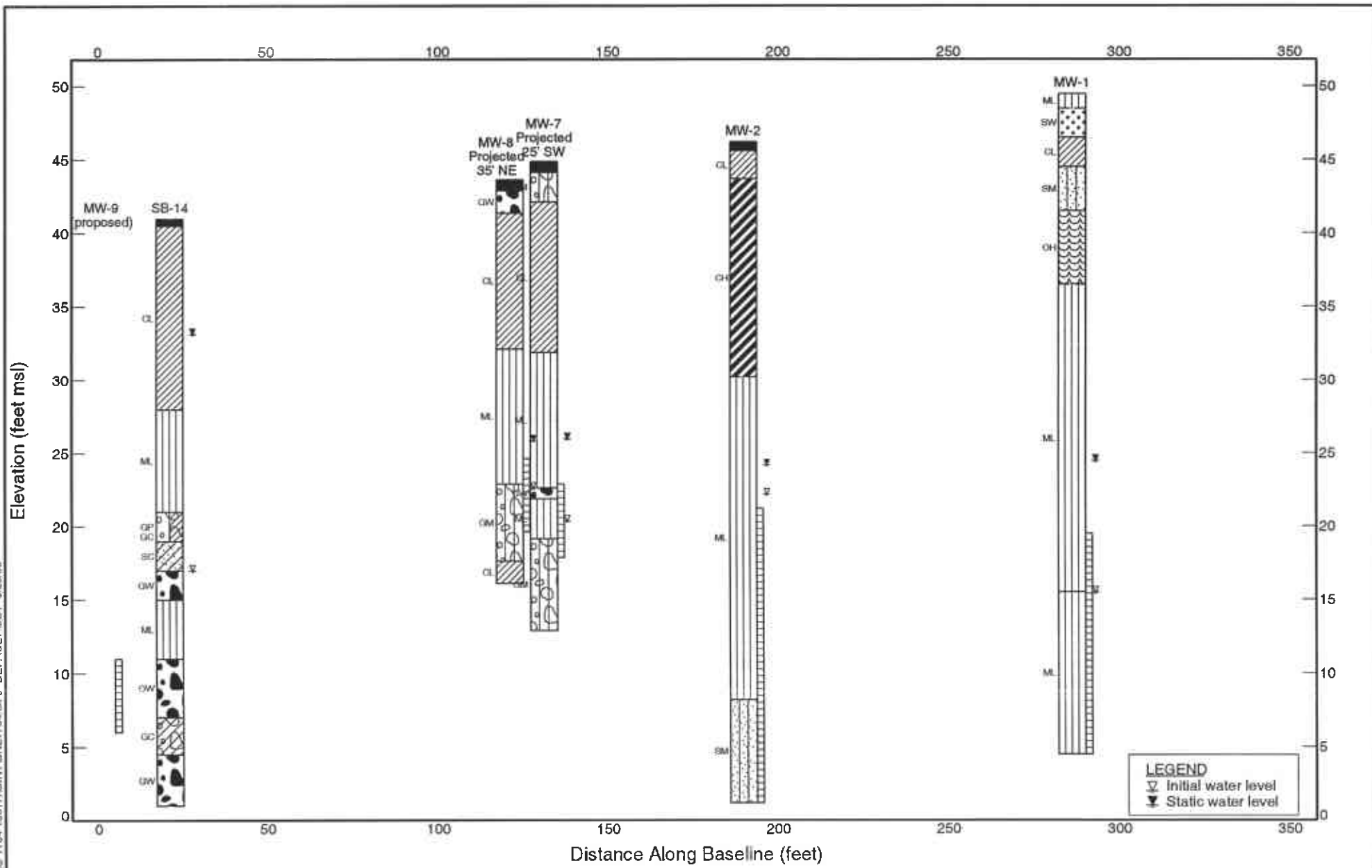
Shell-branded Service Station
 1784 150th Avenue
 San Leandro, California
 Incident #98996068



C A M B R I A

**Vicinity/Area Well
 Survey Map**
 1/2-Mile Radius

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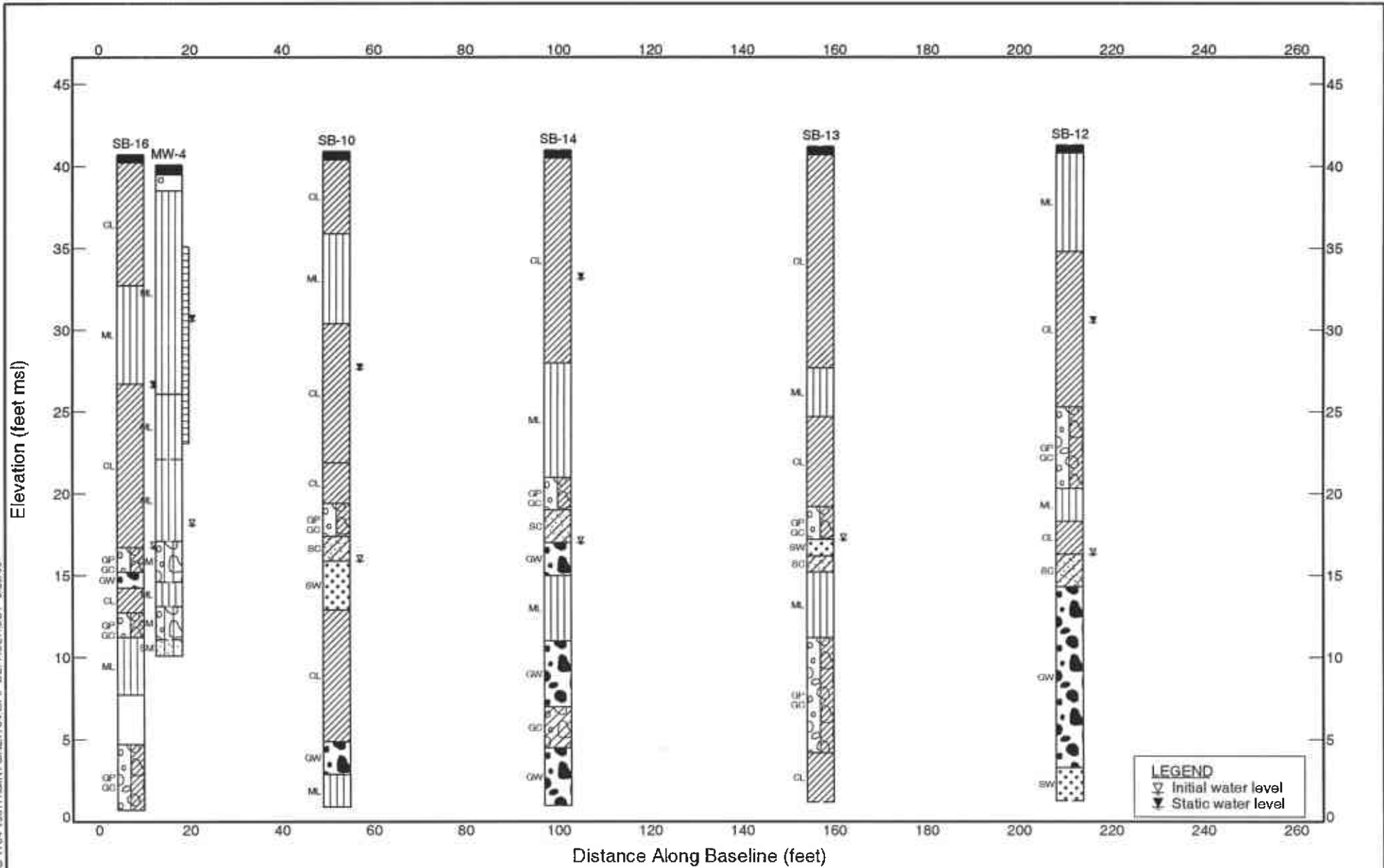


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1784 150th Avenue, San Leandro, California
FIGURE 3
Section A-A'

8/25/03
Project Number: 245-0612-007

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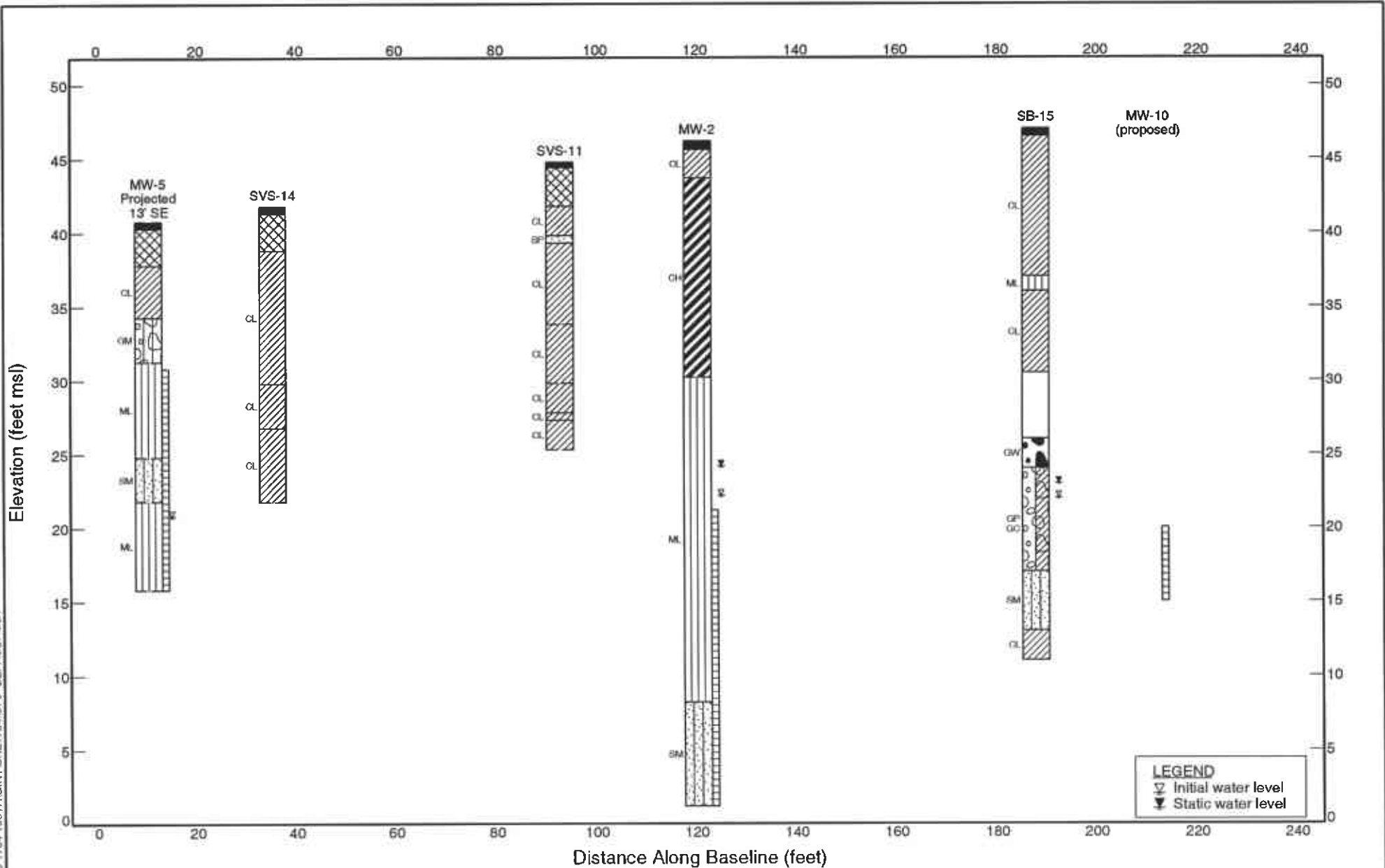


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FIGURE 4
Section B-B'

8/25/03
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Shell Oil Products US
1784 150th Avenue, San Leandro, California
FIGURE 5
Section C-C'

8/25/03
Project Number: 245-0612-007

Table 1. Soil Analytical Results - Shell-branded Service Station, 1784 150th St., San Leandro, California - Incident #98996068

Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE
								EPA Method 8020	EPA Method 8260
			(fbg)	(Concentrations in mg/kg)					
BH-A ^{a,b}	3/5/1990	5.0	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---
BH-A ^{a,b}	3/5/1990	15.7	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---
BH-A ^{a,b,c}	3/5/1990	24.7	<1	0.020	<0.0025	<0.0025	<0.0025	---	---
BH-A ^{a,d}	3/5/1990	29.2	35	0.23	0.20	<0.0025	0.64	---	---
BH-A ^{a,b}	3/5/1990	41.2	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---
BH-B ^b	2/4/1992	11.5	<1	0.0026	<0.0025	<0.0025	<0.0025	---	---
BH-B	2/4/1992	16.5	<1	0.0058	<0.0025	<0.0025	<0.0025	---	---
BH-B ^{b,c}	2/4/1992	21.5	79	0.20	0.60	1.0	4.1	---	---
BH-B	2/4/1992	26.5	74	0.59	0.91	1.5	3.9	---	---
BH-C ^b	2/5/1992	11.5	<1	0.0042	0.0029	0.0039	<0.0025	---	---
BH-C ^b	2/5/1992	21.5	<1	<0.0025	<0.0025	<0.0025	<0.0025	---	---
BH-C ^{b,f}	2/5/1992	26.5	3.9	<0.0025	<0.0025	<0.0025	0.0054	---	---
BH-C	2/5/1992	31.5	68	<0.05	<0.05	<0.05	0.17	---	---
BH-1-21	6/6/1994	21	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---
BH-2-20	6/6/1994	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---
BH-3-16 ^b	6/6/1994	16	<1.0	0.013	<0.0050	<0.0050	<0.0050	---	---
BH-4-20.6	6/7/1994	20.6	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---
BH-5-15.6	6/7/1994	15.6	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---
BH-6-20.5	6/7/1994	20.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---
BH-7-15.8	2/14/1995	15.8	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	---	---
BH-8-16.0	2/14/1995	16.0	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	---	---
BH-9-19.5	2/14/1995	19.5	<1.0	<0.0025	<0.0025	<0.0025	<0.0025	---	---
BH-10-15.2	3/3/1995	15.2	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	---
SVS-3	7/18-19/96	16-18	<1.0	<0.005	<0.005	<0.005	<0.005	<0.025	---
SVS-5	7/18-19/96	4-6	<1.0	<0.005	<0.005	<0.005	<0.005	<0.025	---
SVS-5	7/18-19/96	8-10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.025	---
SVS-5	7/18-19/96	18-20	1.1	<0.005	<0.005	<0.005	<0.005	<0.025	---
SVS-9	7/18-19/96	3-5	<1.0	<0.005	<0.005	<0.005	<0.005	<0.025	---
SVS-9	7/18-19/96	8-10	<1.0	<0.005	<0.005	<0.005	<0.005	<0.025	---
SVS-9	7/18-19/96	16-18	<1.0	<0.005	<0.005	<0.005	<0.005	<0.025	---

Table 1. Soil Analytical Results - Shell-branded Service Station, 1784 150th St., San Leandro, California - Incident #98996068

Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE
								EPA Method 8020	EPA Method 8260
			(fbg)	(Concentrations in mg/kg)					
Disp-A	12/4/1997	2.0	3.1	<0.005	0.037	0.022	<0.01	0.019	---
Disp-A, 4.5	12/4/1997	4.5	6.3	0.096	0.012	0.46	0.037	0.056	---
Disp-B	12/4/1997	2.0	130	<1	<1	<1	<2	<1	---
Disp-B, 4.5	12/4/1997	4.5	1.0	0.045	<0.005	0.064	0.32	<0.03	---
Disp-C	12/4/1997	2.0	190	1.8	2.1	3.6	20	1.4	---
Disp-C, 4.5 ^h	12/4/1997	4.5	590	<0.5	0.98	2.3	3.1	<0.5	---
Disp-D	12/4/1997	2.0	3.8	0.11	<0.005	0.15	0.17	0.11	---
Disp-D, 4.5	12/4/1997	4.5	1.4	0.027	<0.005	0.036	0.178	0.005	---
SVS-11-5.5	11/10/1998	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-11-6	11/10/1998	6	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-11-9.5	11/10/1998	9.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-11-10	11/10/1998	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-11-15	11/10/1998	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-11-15.5	11/10/1998	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-11-19	11/10/1998	19	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-11-19.5	11/10/1998	19.5	1.6	0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-14-5	11/11/1998	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-14-5.5	11/11/1998	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-14-10	11/11/1998	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-14-10.5	11/11/1998	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-14-15	11/11/1998	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-14-15.5	11/11/1998	15.5	<1.0	<0.0050	0.006	<0.0050	<0.0050	<0.025	---
SVS-14-19	11/11/1998	19	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	0.029	<25
SVS-14-19.5	11/11/1998	19.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-15-4.5	11/11/1998	4.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-15-5	11/11/1998	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-15-10	11/11/1998	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-15-10.5	11/11/1998	10.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---
SVS-15-15	11/11/1998	15	<1.0	<0.0050	<0.0050	<0.0050	0.013	<0.025	---
SVS-15-15.5	11/11/1998	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---

Table 1. Soil Analytical Results - Shell-branded Service Station, 1784 150th St., San Leandro, California - Incident #98996068

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE	
								EPA Method 8020	EPA Method 8260	
			(Concentrations in mg/kg)							
SVS-15-19.5	11/11/1998	19.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	
SVS-15-20	11/11/1998	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	
SVS-16-5	11/11/1998	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	
SVS-16-5.5	11/11/1998	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	
SVS-16-10	11/11/1998	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	
SVS-16-10.5	11/11/1998	10.5	<1.0	<0.0050	<0.0050	<0.0050	0.0093	0.026	---	
SVS-16-15	11/11/1998	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	
SVS-16-15.5	11/11/1998	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	---	
MW-5-515.5	10/24/01	15.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050	
MW-6-5.5	10/24/01	5.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	0.012	
MW7@5'	10/03/02	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.5	
MW7@10'	10/03/02	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.5	
MW7@15'	10/03/02	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.5	
MW7@20'	10/03/02	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.5	
MW7@25'	10/03/02	25	11	<0.0050	0.0060	0.086	0.13	---	<0.5	
MW7@30'	10/03/02	30	68	<0.025	0.19	0.89	3.7	---	<0.5	
MW7@32'	10/03/02	32	1.2	<0.0050	0.0069	0.025	0.11	---	<0.5	
MW8@5'	10/04/02	5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.5	
MW8@10'	10/04/02	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.5	
MW8@15'	10/04/02	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.5	
MW8@20'	10/04/02	20	1.2	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.5	
MW8@25'	10/04/02	25	140	0.072	0.15	1.5	5.8	---	<0.5	
SB9@22	10/04/02	22	1.1	<0.0050	<0.0050	0.016	0.088	---	<0.5	

Table 1. Soil Analytical Results - Shell-branded Service Station, 1784 150th St., San Leandro, California - Incident #98996068

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE
								EPA Method 8020	EPA Method 8260
			← (Concentrations in mg/kg) →						
SB-10-10'	6/23/03	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-10-20'	6/23/03	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-10-22'	6/23/03	22	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-10-25'	6/23/03	25	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-10-30	6/23/03	30	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-10-37'	6/23/03	37	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-10-39.5'	6/23/03	39.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-11-10'	6/24/03	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-11-15'	6/24/03	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-11-20'	6/24/03	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-11-24'	6/24/03	24	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-11-28'	6/24/03	28	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-11-30'	6/24/03	30	650	<0.50	<0.50	3.5	9.9	---	<0.50
SB-12-10'	6/24/03	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-12-20'	6/24/03	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-12-25'	6/24/03	25	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-12-30'	6/24/03	30	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-12-35'	6/24/03	35	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-12-39.5'	6/24/03	39.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-13-10'	6/23/03	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-13-20'	6/23/03	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-13-24'	6/23/03	24	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-13-30'	6/23/03	30	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-13-35'	6/23/03	35	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-13-39.5'	6/23/03	39.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-14-10'	6/24/03	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-14-20'	6/24/03	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-14-24'	6/24/03	24	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-14-30'	6/24/03	30	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-14-35'	6/24/03	35	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-14-39.5'	6/24/03	39.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050

Table 1. Soil Analytical Results - Shell-branded Service Station, 1784 150th St., San Leandro, California - Incident #98996068

Sample ID	Date	Depth (fbg)	TPHg	(Concentrations in mg/kg)				MTBE	MTBE
				Benzene	Toluene	Ethylbenzene	Xylenes	EPA Method 8020	EPA Method 8260
SB-15-10'	6/26/03	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-15-15'	6/26/03	15	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-15-20'	6/26/03	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-15-22.5'	6/26/03	22.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-15-35'	6/26/03	35	1.4	0.10	<0.0050	0.030	0.0055	---	<0.0050
SB-16-10'	6/23/03	10	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-16-20'	6/23/03	20	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-16-24'	6/23/03	24	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-16-28'	6/23/03	28	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-16-35'	6/23/03	35	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050
SB-16-39.5'	6/23/03	39.5	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	---	<0.0050

Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline. From 1990 through 1998, analyzed by modified EPA Method 8015; from 2001 through 2002, analyzed by EPA Method 8260B.

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8020 from 1990 through 1998; from 2001 through 2002, analyzed by EPA Method 8260B.

MTBE = Methyl tert-butyl ether

fbg = Feet below grade

mg/kg = milligrams per kilogram

<n = Below detection limit of n mg/kg

--- = Not analyzed

Notes:

a = Petroleum oil and grease analyzed by American Public Health Association Standard Method 503E; no detections above 100 ppm detection limit. Total oil and grease analyzed by American Public Health Association Standard Method 503E; no detections above 50 ppm detection limit.

b = Analyzed for halogenated volatile organic compounds by EPA Method 8010; none detected.

c = Total petroleum hydrocarbons as diesel (TPHd) and total petroleum hydrocarbons as motor oil (TPHmo) analyzed by modified EPA Method 8015; no TPHd detected at 1 ppm limit; no TPHmo detected at 10 ppm limit.

d = 1,2-dichloroethane detected at 0.0064 ppm by EPA Method 8010.

e = TPHd detected at 23 ppm by modified EPA Method 8015; lab characterized detected compounds as hydrocarbons lighter than diesel.

f = TPHd detected at 4.9 ppm by modified EPA Method 8015; lab characterized detected compounds as hydrocarbons lighter than diesel.

g = Analyzed for volatile organic compounds by EPA Method 8010; none detected above detection limits ranging from 0.005 to 0.050 ppm.

Table 1. Soil Analytical Results - Shell-branded Service Station, 1784 150th St., San Leandro, California - Incident #98996068

Sample ID	Date	Depth (fbg)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	MTBE
								EPA Method 8020	EPA Method 8260

←————— (Concentrations in mg/kg) —————→

h = Sample saturated with perched water from beneath dispenser.

G:\San Leandro 1784 150th\Soil Summary 1784 150th.xls\Soil Summary

Table 2. Groundwater Analytical Results - Shell-branded Service Station, Incident # 98996068, 1784 150th Avenue, San Leandro, California

Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	TBA	DIPE	ETBE	TAME	1,2 DCA	EDB	Ethanol
(ppb)														
SVS-11-W1	11/10/1998	130,000	18,000	1,800	5,700	31,000	1,500	---	---	---	---	---	---	---
SVS-12-W1	11/11/1998	64,000	1,800	770	2,700	17,000	<250	---	---	---	---	---	---	---
SVS-14-W1	11/11/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---
SVS-15-W1	11/11/1998	<50	<0.50	<0.50	<0.50	0.80	<2.5	---	---	---	---	---	---	---
SVS-16-W1	11/11/1998	<50	<0.50	<0.50	<0.50	<0.50	<2.5	---	---	---	---	---	---	---
MW7-W	10/03/02	60,000	59	590	1,900	7,300	<100	---	---	---	---	---	---	---
MW8-W	10/04/02	83,000	810	2,000	3,700	17,000	<500	---	---	---	---	---	---	---
SB9-W	10/04/02	78,000	2,200	8,200	2,300	13,000	<500	---	---	---	---	---	---	---
SB-10-W	6/23/03	<50	1.1	0.84	<0.50	1.7	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50	<50
SB-11-W	6/24/03	75	0.84	0.53	1.5	7.1	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50	<50
SB-12-W	6/24/03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50	<50
SB-13-W	6/23/03	<50	0.89	0.52	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50	<50
SB-14-W	6/24/03	67,000	<100	280	3,800	16,000	<100	<1000	<400	<400	<400	<100	<100	<1000
SB-15-W	6/26/03	6,800	530	<25	380	560	40	<250	<100	<100	<100	<25	<25	<2500
SB-16-W	6/23/03	<50	0.67	<0.50	<0.50	<1.0	<0.50	<5.0	<2.0	<2.0	<2.0	<0.50	<0.50	<50

Abbreviations and Notes:

TPHg = total petroleum hydrocarbons as gasoline by modified EPA Method 8015 in 1998, and by EPA Method 8260B since.

BTEX = benzene, toluene, ethylbenzene and total xylenes by EPA Method 8020 in 1998, and by EPA Method 8260B since.

MTBE = methyl tertiary butyl ether by EPA Method 8020 in 1998 and by EPA Method 8260B since

ppb = parts per billion

TBA = tert-butyl alcohol

DIPE = di-isopropyl ether

ETBE = ethyl tery-butyl ether

TAME = tert-amyl methyl ether

1,2, DCA = 1,2-dichloroethane

EDB = 1,2-dibromoethane

"---" = not analyzed

ATTACHMENT A

Standard Procedures for Geoprobe® Soil Sampling

CAMBRIA

STANDARD PROCEDURES FOR GEOPROBE® SOIL SAMPLING

This document describes Cambria Environmental Technology's standard field methods for GeoProbe® soil and ground water sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e., sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or separate-phase hydrocarbon saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Sampling

GeoProbe® soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon® tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

CAMBRIA

Field Screening

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable GasTech[®] or photoionization detector measures volatile hydrocarbon vapor concentrations in the bag's headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Grab Ground Water Sampling

Ground water samples are collected from the open borehole using bailers, advancing disposable Tygon[®] tubing into the borehole and extracting ground water using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

F:\TEMPLATE\SOPS\GEOPROBE.WPD

ATTACHMENT B

Permits

MISC

CITY OF SAN LEANDRO
APPLICATION TO PERFORM WORK
IN THE PUBLIC RIGHT-OF-WAY

03231

Service No. _____

Permit Number

614/03

Date Approved

Work Site: 1784 150th Street, San Leandro CA

Applicant: Name Cambria Environmental Address 5900 Hollis St Ste A Tel (510) 420 3339

Owner: Name Shell Oil Products (US) Address P.O. box 7869, Burbank CA Tel. (539) 645-9306

Emergency: Name Michael Moya Mobile (510) 420 3910 9150-7869 Tel. (510) 420-3339

Purpose of Permit: Stewart Delice 390-1406

Utility Street Excavation Curb, Gutter, Sidewalk, Driveway Other Soil borings

Detailed Description and Dimensions of Work: Please see attached work plan and site plan and proposed soil boring location map.

Plan Submitted: Yes No _____

Profile Submitted: Yes _____ No _____

Date Work to be Started: June 24th

Date Work to be Completed: June 27th

Building Permit No. N/A

State Encroachment Permit No. N/A

Oro Loma Permit No. N/A

Alameda County Flood Control Permit No. ~~N/A~~ #103-0464

Compliance with State Labor Code, in accordance with Section 3800: Letter attached, also Alameda County public works dept. permit

- Applicant has on file with the City of San Leandro evidence that worker's compensation insurance is carried.
- Applicant will not employ anyone and therefore will not be subject to the worker's compensation laws of California.

Statement of State Contractor's License, in accordance with Section 7031.5 of the State Business and Professions Code:

- Applicant has State License No. C57 485-165, Class C57 in full force and effect.
- Applicant is exempt from the State Contractor's License Law for the following reason(s):

By the application and acceptance of this permit, the undersigned intending to be legally bound does hereby agree that all work performed will be in accordance with all applicable provisions of this permit and all regulations, provisions, and specifications as adopted by the City. Further, the undersigned agrees that this permit is to serve as a guaranty for payment for all permit and/or inspection charges as billed by the City. Any misrepresentation of information requested from the applicant on this form shall make this permit null and void.

Printed Name: Stewart Delice Signature: [Signature] Date: 5/20/03

PLEASE CALL (510) 577-3308 FOR INSPECTIONS

SPECIAL PROVISIONS
ALL WORK PER CITY GENERAL PROVISIONS, ALSO SEE ATTACHED SPECIAL CONDITIONS.

Backfill Required: _____

Pavement Section Required: _____

Minimum Depth of Cover: _____

Police & Fire Dept. to be notified 24 hours prior to start: YES NO _____

PEDESTRIAN SAFETY AND TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

INSPECTION RECORD			
Date	Comments	Insp	Hrs. Charged

NOTE: 1 hr. minimum charge per inspection stop

Hours forwarded from reverse side: _____

TOTAL HOURS CHARGED: _____

PERMIT IS VALID WHEN SIGNED

Any omission on the part of the City to specify on this permit any rule, regulation, provision, or specification shall not excuse the permittee from complying with all requirements of law and appropriate ordinances and all applicable regulations, provisions, and specifications adopted by the City.

ISSUE FOR CITY ENGINEER
[Signature]

PERMIT FEE: \$50 FEES To Acct #3306

RESTORE/INSPECT DEPOSIT: \$1400 To CN# 15477

STREET CUT FEE: _____ To Acct #3304

TOTAL: \$1450

All charges collected at permit issuance

All charges to be billed to CN#

(510) 577-3294 Attn: Victor Lemen ^{P. 02/02}



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

399 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554 MARLON MAGALLANES/FRANK CORD (510) 670-9783
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1784 150th Street
San Leandro Ca.

PERMIT NUMBER W03-0464
WELL NUMBER _____
APN _____

CLIENT
Name Shell Oil Products Co (US)
Address P.O. Box 7369 Phone (510) 645-9306
City Berkeley, CA Zip 94710-7369

PERMIT CONDITIONS
Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name Steven Dalziel Cambria
Address 5000 Hollis St. Ste A Phone 510 420 3339
City Berkeley CA Zip 94603

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT

- Well Construction
 - Cathodic Protection
 - Water Supply
 - Monitoring
- Environmental*
- Geotechnical Investigation
 - General
 - Contamination *soil borings*
 - Well Destruction

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

D. GEOTECHNICAL/CONTAMINATION
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind.
with cement grout

DRILLING METHOD:
Mod Rotary Air Rotary Auger Ir
Cable Other *geoprobe*

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

DRILLER'S NAME Gregg Drilling

F. WELL DESTRUCTION

See attached requirements for destruction of shallow wells. Send a map of work site. A different permit application is required for wells deeper than 45 feet.

DRILLER'S LICENSE NO. C-57 485-165

G. SPECIAL CONDITIONS

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

WELL PROJECTS

Drill Hole Diameter _____ in. Maximum Depth 320
Casing Diameter _____ in. Owner's Well Number _____
Surface Seal Depth _____ ft.

GEOTECHNICAL PROJECTS

Number of Borings 7 Maximum Depth 30 ft.
Hole Diameter 4 in.

ESTIMATED STARTING DATE 6/24/03
ESTIMATED COMPLETION DATE 6/27/03

APPROVED

DATE 5-21-03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinances No. 73-68.

APPLICANT'S SIGNATURE Steven A. Dalziel DATE 5/20/03

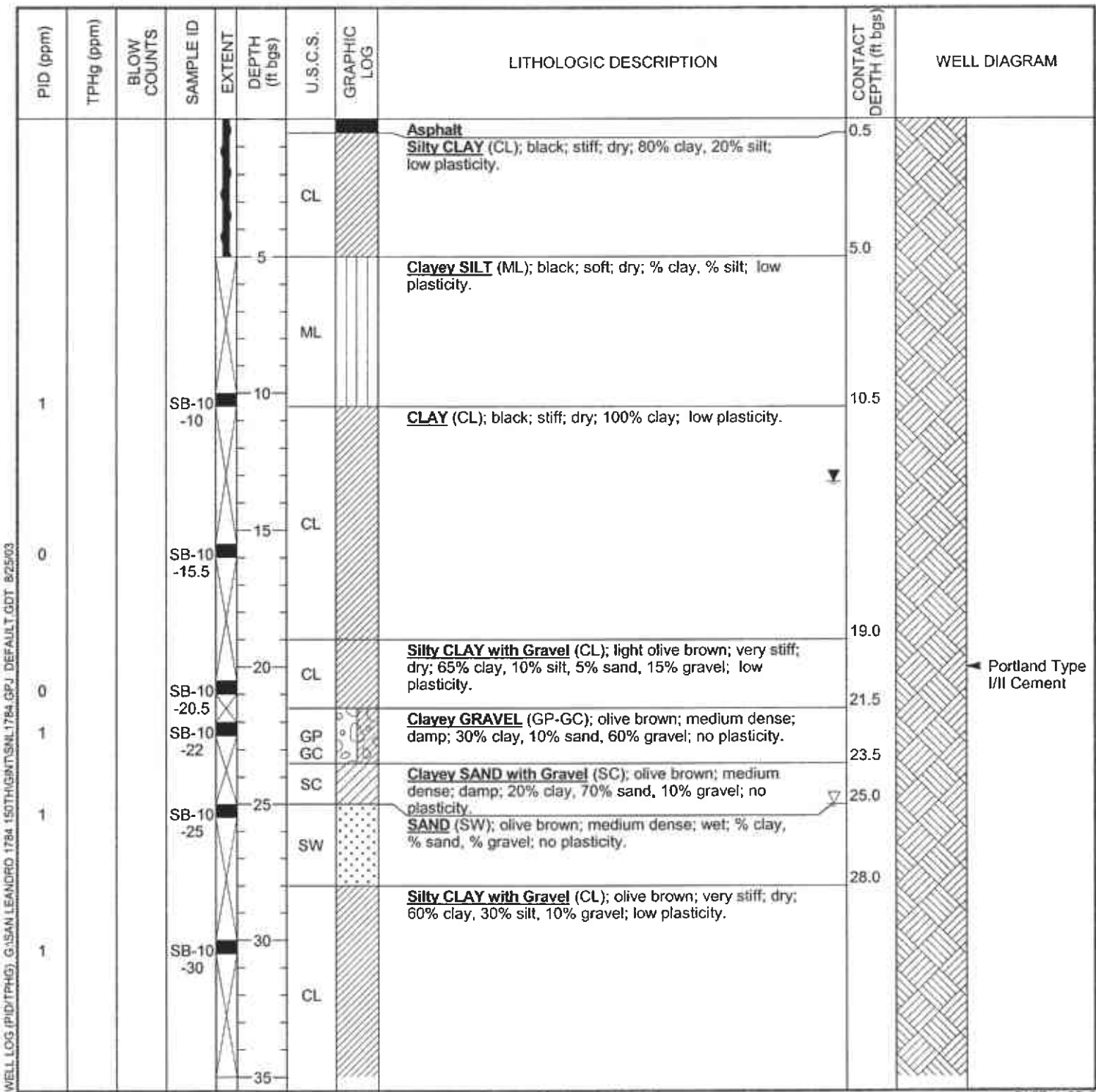
PLEASE PRINT NAME Steven A. Dalziel Rev. 6-5-00



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-10
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	23-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	23-Jun-03
PROJECT NUMBER	245-0612-007	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	40.88
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	S. Dalie	DEPTH TO WATER (First Encountered)	25.0 ft (23-Jun-03)
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	13.3 ft
REMARKS	Hand augered to 5' bgs.		



Continued Next Page

ATTACHMENT C

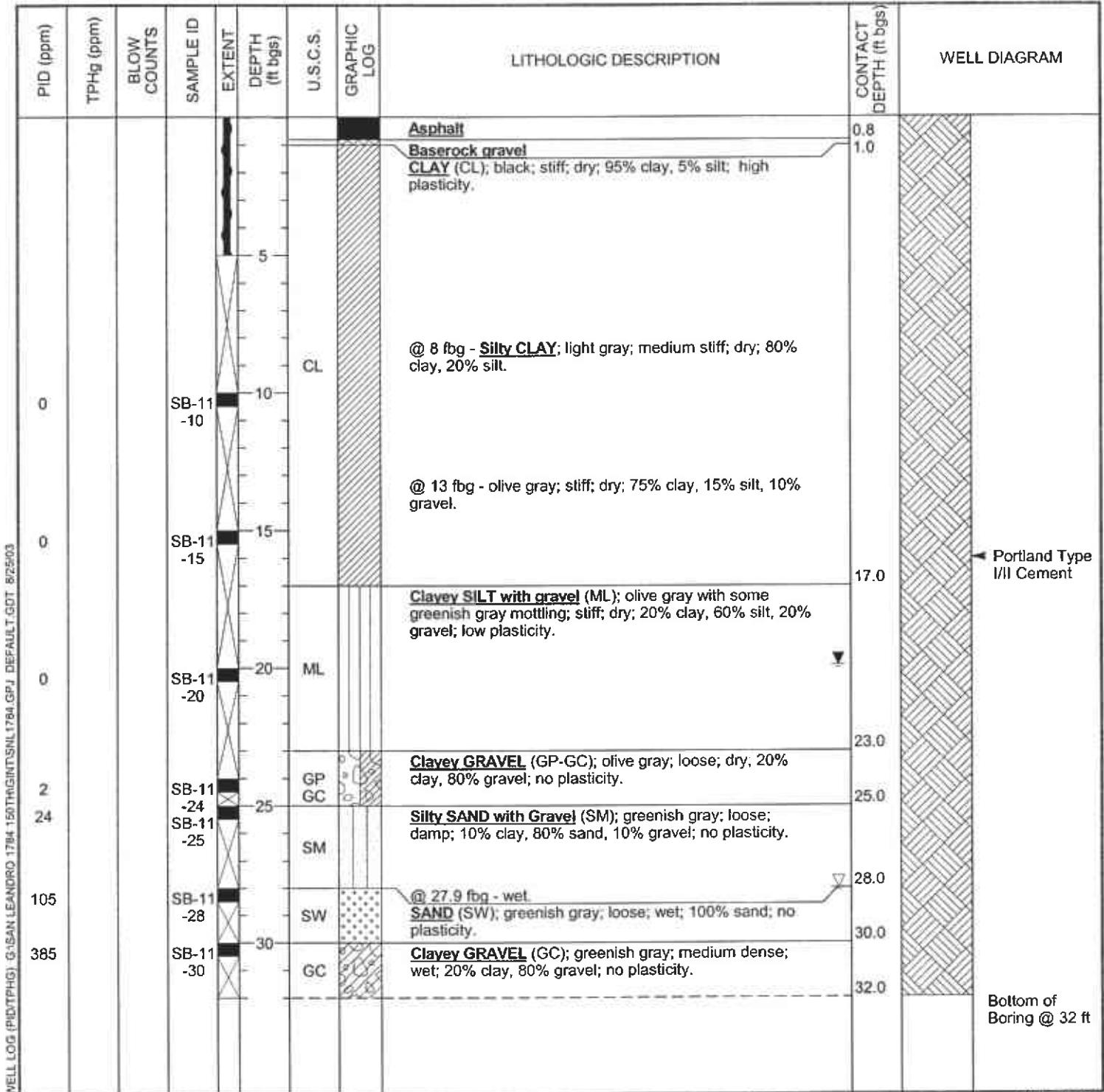
Boring Logs



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94808
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-11
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	24-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	24-Jun-03
PROJECT NUMBER	245-0612-007	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Greco Drilling	GROUND SURFACE ELEVATION	45.38
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	S. Dale	DEPTH TO WATER (First Encountered)	28.0 ft (24-Jun-03) ▼
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	19.9 ft ▼
REMARKS	Hand augered to 5' bgs.		



WELL LOG (PID/TPHG): G-SAN LEANDRO 1784-150TH AVENUE SAN LEANDRO, CA 94808



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME Shell Oil Products US BORING/WELL NAME SB-10
 JOB/SITE NAME 1784 150th Avenue DRILLING STARTED 23-Jun-03
 LOCATION San Leandro, California DRILLING COMPLETED 23-Jun-03

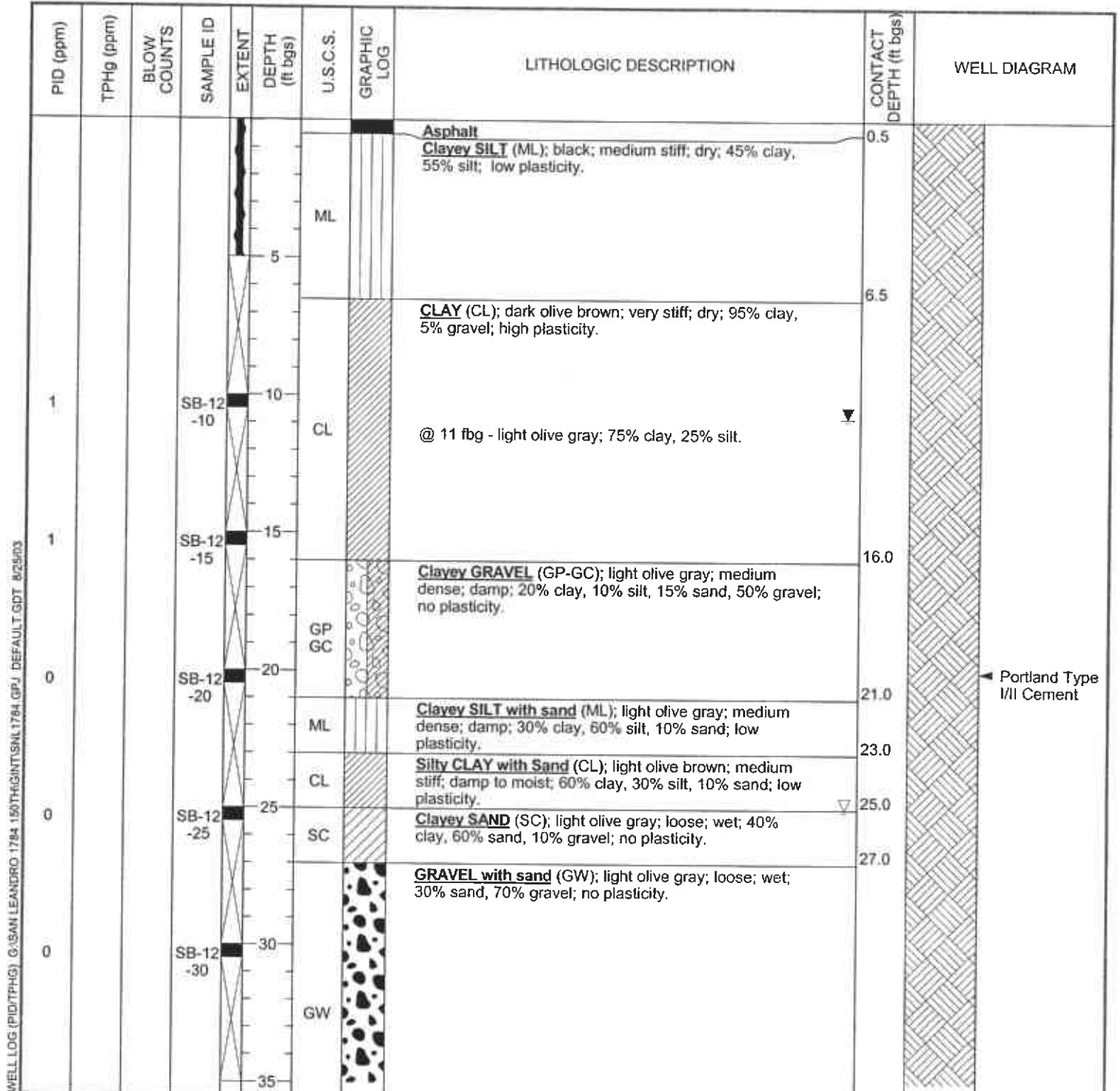
Continued from Previous Page

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
1			SB-10-35						36.0	
0			SB-10-37			GW		GRAVEL (GW); olive brown; loose; wet; 5% sand, 95% gravel; no plasticity.	38.0	
0			SB-10-39.5		40	ML		Sandy SILT with Clay (ML); dark olive brown; soft; moist; 5% clay, 75% silt, 20% sand; medium plasticity.	40.0	
										Bottom of Boring @ 40 ft

WELL LOG (PID/TPHG) G:\SAM\LEANDRO\1784_150TH\GINT\SNL\1784.GPJ DEFAULT.GDT 8/26/03



CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-12
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	24-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	24-Jun-03
PROJECT NUMBER	245-0612-007	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	41.28
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	S. Dalie	DEPTH TO WATER (First Encountered)	25.0 ft (24-Jun-03) ▼
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	10.8 ft ▼
REMARKS	Hand augered to 5' bgs.		



WELL LOG (PID/TPHG) 0:USAN LEANDRO 1784 150TH AVENUE SAN LEANDRO CA 94608 GPJ_DEFAULT.GDT 02/25/03



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

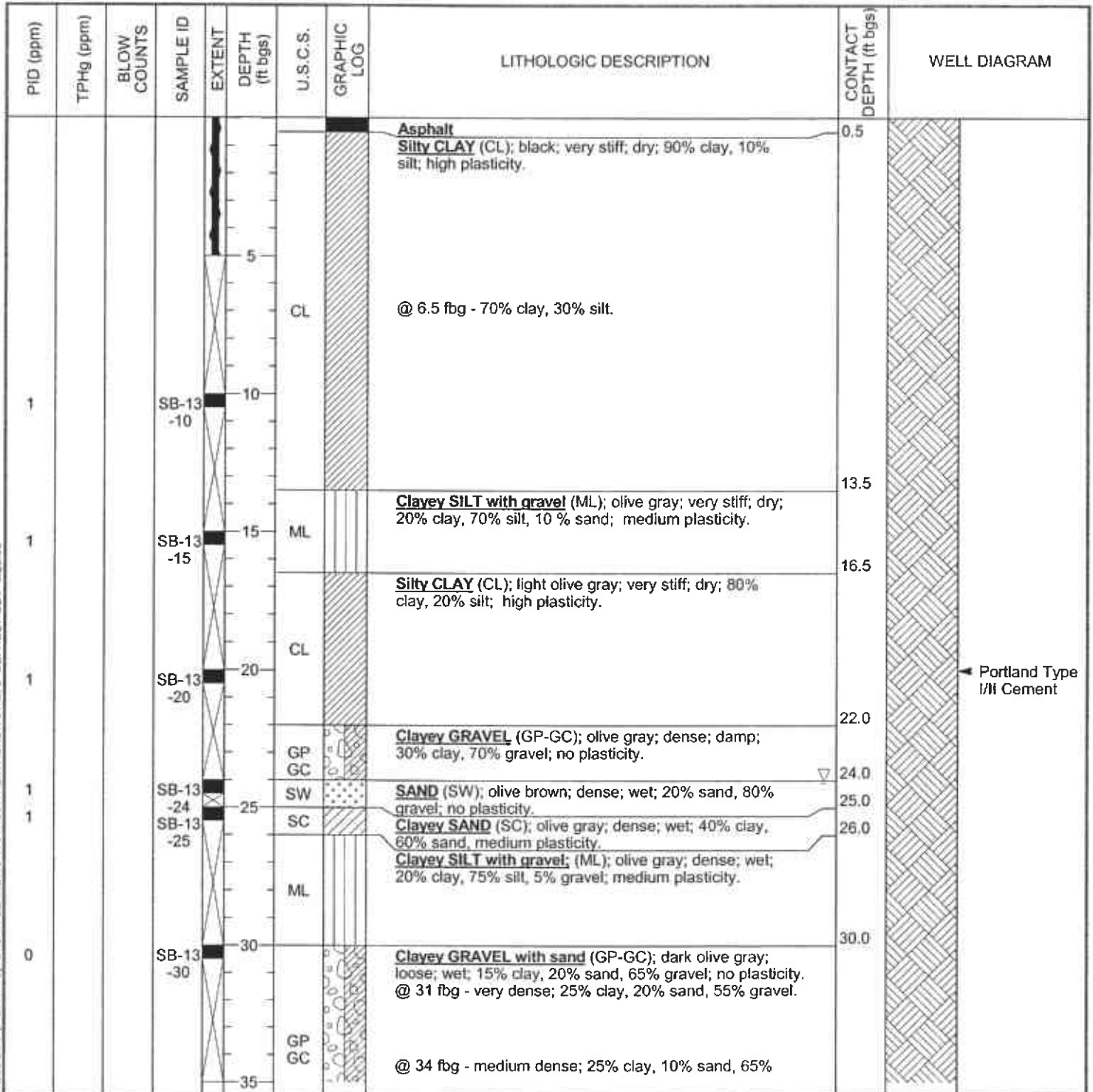
CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-12
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	24-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	24-Jun-03

Continued from Previous Page

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
0			SB-12-35							
									38.0	
0			SB-12-39.5		40	SW		SAND (SW); light olive gray; loose; wet; 100% sand; no plasticity.	40.0	
										Bottom of Boring @ 40 ft



CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-13
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	25-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	25-Jun-03
PROJECT NUMBER	245-0612-007	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	41.18
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	S. Dalie	DEPTH TO WATER (First Encountered)	24.0 ft (25-Jun-03)
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	NA
REMARKS	Hand augered to 5' bgs.		



WELL LOG (PID/TPHG) G:\SAN LEANDRO 1784-150TH\GINT\SNL1784.GPJ DEFAULT.GDT 8/25/03



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-13
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	25-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	25-Jun-03

Continued from Previous Page

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
0			SB-13 -35					gravel.		
						CL		Silty CLAY with gravel (CL); dark olive gray; very stiff; damp to dry; 80% clay, 15% silt, 5% gravel; high plasticity.	37.0	
1			SB-13 -39.5		40				40.0	Bottom of Boring @ 40 ft

WELL LOG (PID/TPHG): G:\SAN LEANDRO\1784 150TH\GINT\SNL1784.GPJ_DEFAULT.GDT 8/25/03



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-14
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	24-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	24-Jun-03

Continued from Previous Page

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
1			SB-14-35			GC		50% clay, 50% gravel; medium plasticity.	36.5	
						GW		GRAVEL with sand (GW); light olive gray; loose; wet; 20% sand, 80% gravel; no plasticity.		
0			SB-14-39.5		40				40.0	Bottom of Boring @ 40 ft

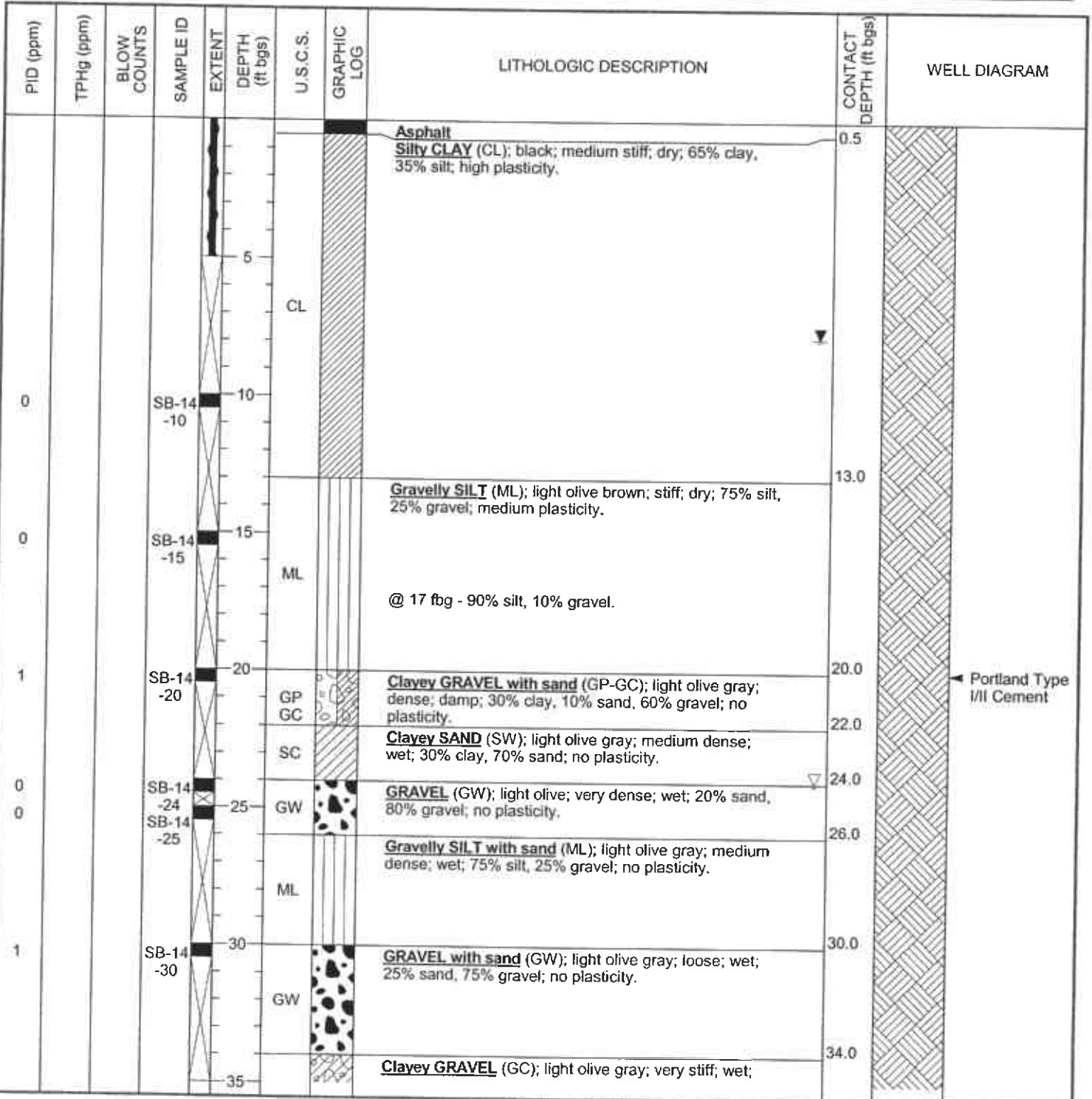
WELL LOG (PID/TPHG): G:\SAN LEANDRO 1784_150TH\GINT\SNL1784.GPJ_DEFAULT.GDT_B25/03



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-14
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	24-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	24-Jun-03
PROJECT NUMBER	245-0612-007	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	40.98
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	S. Dalie	DEPTH TO WATER (First Encountered)	24.0 ft (24-Jun-03)
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	7.9 ft
REMARKS	Hand augered to 5' bgs.		



WELL LOG (PID/TPHG) G:\SAN LEANDRO 1784-150TH\GINT\SNL-1784.GPJ DEFAULT.GDT 8/25/03

Continued Next Page



CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-15
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	26-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	26-Jun-03
PROJECT NUMBER	245-0612-007	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	47
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	S. Dalie	DEPTH TO WATER (First Encountered)	25.0 ft (26-Jun-03)
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	24.0 ft
REMARKS	Hand augered to 5' bgs.		

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
					0.5			Asphalt	0.5	
2.5					5	CL		Silty CLAY (CL) ; black; soft; dry; 55% clay, 45% silt; high plasticity.		
			SB-15 -10		10	ML		Clayey SILT (ML) ; black; soft; dry; 45% clay, 55% silt; high plasticity.	10.0	
1					11.0	CL		Silty CLAY with gravel (CL) ; black; very stiff; dry; 50% clay, 40% silt, 10% gravel; high plasticity.	11.0	
			SB-15 -15		15			@ 14 fbg - gray; 60% clay, 40% silt.		
0					16.5			SILT (ML) ; olive gray; very stiff; dry; 15% clay; 85% silt; medium plasticity.	16.5	
			SB-15 -20		20	GW		GRAVEL (GW) ; olive gray; loose; dry; 20% sand, 80% gravel; no plasticity.	21.0	
10			SB-15 -22.5		23.0			Clayey GRAVEL (GP-GC) ; olive gray; dense; damp; 30% clay, 70% gravel; medium plasticity.	23.0	
9					25			@ 25 fbtg - wet.		
25			SB-15 -25		25	GP GC				
					30.0			Silty SAND (SM) ; olive gray; medium dense; wet; 10% clay, 20% silt, 70% sand; low plasticity.	30.0	
21			SB-15 -30		30	SM		@ 32 fbg - 10% clay, 25% silt, 55% sand, 10% gravel.		
					34.0			CLAY with gravel (CL) ; olive brown; very stiff; damp;	34.0	

WELL LOG (PID/TPHG) G:\SAN LEANDRO\1784 150TH\GINT\SNL1784.GPJ, DEFAULT.GDT, 8/25/03



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

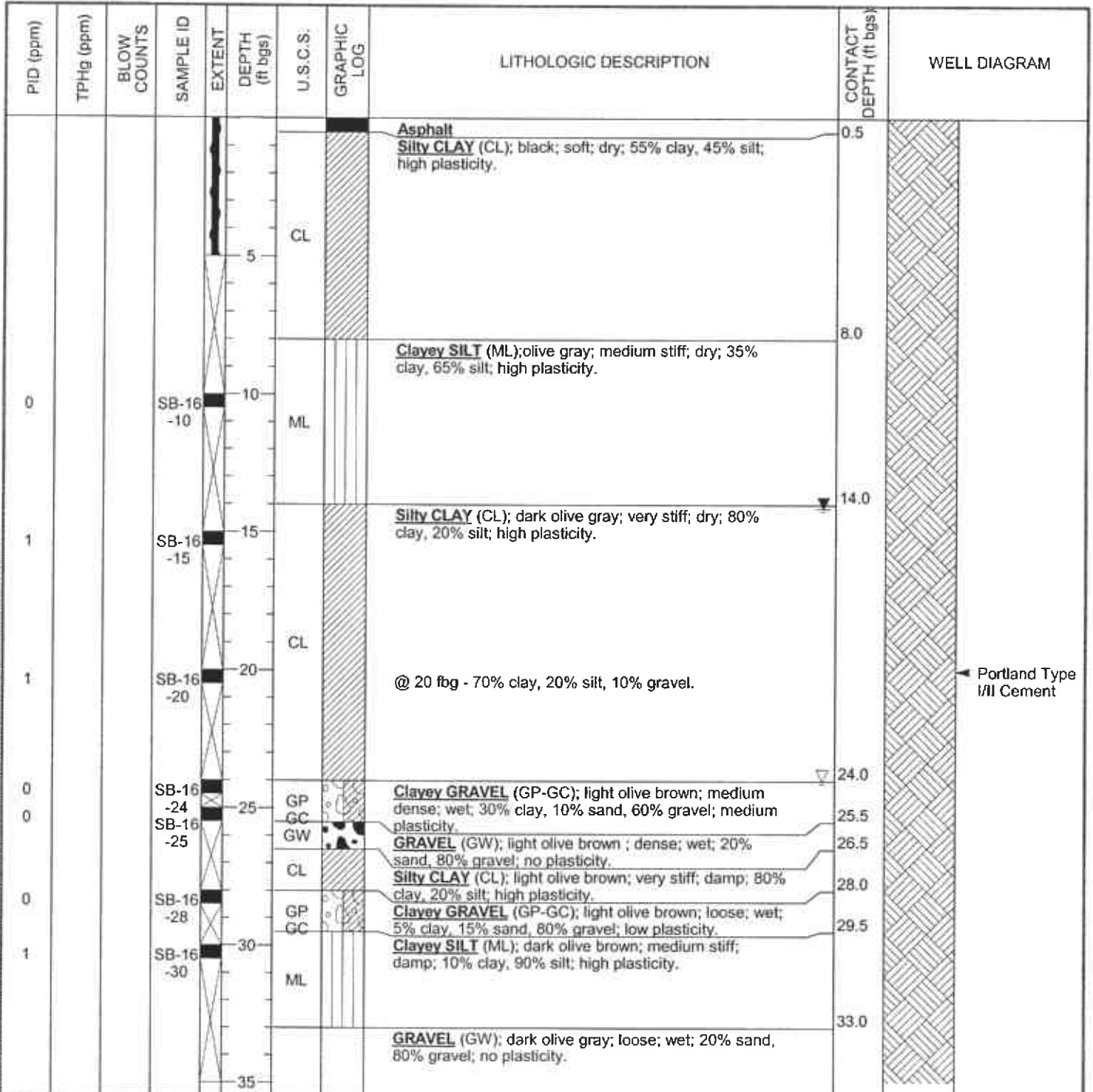
CLIENT NAME Shell Oil Products US BORING/WELL NAME SB-15
 JOB/SITE NAME 1784 150th Avenue DRILLING STARTED 26-Jun-03
 LOCATION San Leandro, California DRILLING COMPLETED 26-Jun-03

Continued from Previous Page

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
50			SB-15 -36	X		CL		90% clay, 10% gravel; high plasticity.	36.0	 Bottom of Boring @ 36 ft



CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-16
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	23-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	23-Jun-03
PROJECT NUMBER	245-0612-007	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	40.7
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION	NA
BORING DIAMETER	2"	SCREENED INTERVAL	NA
LOGGED BY	S. Dalie	DEPTH TO WATER (First Encountered)	24.0 ft (23-Jun-03) ▼
REVIEWED BY	M. Derby, PE# 55475	DEPTH TO WATER (Static)	14.2 ft ▼
REMARKS	Hand augered to 5' bgs.		



WELL LOG (PID/TPHG) C:\SAN LEANDRO 1784 150TH\GINT\SM1784.OPJ DEFAULT.GDT 8/25/03



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Shell Oil Products US	BORING/WELL NAME	SB-16
JOB/SITE NAME	1784 150th Avenue	DRILLING STARTED	23-Jun-03
LOCATION	San Leandro, California	DRILLING COMPLETED	23-Jun-03

Continued from Previous Page

PID (ppm)	TPHg (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
1			SB-16 -35						36.0	
0			SB-16 -39.5		40	GP GC		Clayey GRAVEL (GP-GC); dark olive gray; medium stiff; wet; 40% clay, 20% sand, 40% gravel; low plasticity.	40.0	
										Bottom of Boring @ 40 ft

ATTACHMENT D

Soil Disposal Confirmation Report



Hazardous Waste Hauler (Registration #2843)

8896 Elder Creek Rd. • Sacramento, CA 95828 • FAX (916) 381-1573

Disposal Confirmation

Request for Transportation Received: 06/26/03

Consultant Information

Company: Cambria Environmental
Contact: Stu Dalie
Phone: 510 420-0780
Fax: 510 420-9170

Site Information

Station #: N/A
Street Address: 1784 150th Street
City, State, ZIP: San Leandro, CA 94578

Customer: Shell Oil Company RESA-0023-LDC
RIPR #: 26111
SAP # / Location: 136019
Incident #: 98996068
Location / WIC #: N/A
Environmental Engineer: Karen Petryna

Material Description: Contaminated Soil
Estimated Quantity: 1/2 yard
Service Requested Date:

Disposal Facility: Forward
Contact: Griffith, Joe
Phone: 800-204-4242
Approval #: 2522
Date of Disposal: July 07, 2003
Actual Tonnage: .35

Transporter: Manley & Sons Trucking, Inc.
Contact: Glenell Manley
Phone: 916 381-6864
Fax: 916 381-1573
Invoice:
Date of Invoice:

ATTACHMENT E
Certified Laboratory Reports

Cambria Environmental Emeryville

July 14, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Stu Dalie

Project#: 245-0612-007

Project: 98996068

Site: 1784 150th St., San Leandro

Dear Mr. Dalie:

Attached is our report for your samples received on 06/27/2003 14:20


This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/11/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007

98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-10-W	06/23/2003 10:20	Water	6
SB-16-W	06/23/2003 12:15	Water	14
SB-13-W	06/23/2003 14:40	Water	24

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07/14/2003 12:22

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Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-10-W	Lab ID:	2003-06-0896 - 6
Sampled:	06/23/2003 10:20	Extracted:	7/5/2003 04:55
Matrix:	Water	QC Batch#:	2003/07/04-1b.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/05/2003 04:55	
Benzene	1.1	0.50	ug/L	1.00	07/05/2003 04:55	
Toluene	0.84	0.50	ug/L	1.00	07/05/2003 04:55	
Ethylbenzene	ND	0.50	ug/L	1.00	07/05/2003 04:55	
Total xylenes	1.7	1.0	ug/L	1.00	07/05/2003 04:55	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/05/2003 04:55	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/05/2003 04:55	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/05/2003 04:55	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/05/2003 04:55	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/05/2003 04:55	
1,2-DCA	ND	0.50	ug/L	1.00	07/05/2003 04:55	
EDB	ND	0.50	ug/L	1.00	07/05/2003 04:55	
Ethanol	ND	50	ug/L	1.00	07/05/2003 04:55	
Surrogates(s)						
1,2-Dichloroethane-d4	91.2	76-130	%	1.00	07/05/2003 04:55	
Toluene-d8	102.6	78-115	%	1.00	07/05/2003 04:55	

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-16-W	Lab ID:	2003-06-0896 - 14
Sampled:	06/23/2003 12:15	Extracted:	7/4/2003 21:14
Matrix:	Water	QC Batch#:	2003/07/04-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/04/2003 21:14	
Benzene	0.67	0.50	ug/L	1.00	07/04/2003 21:14	
Toluene	ND	0.50	ug/L	1.00	07/04/2003 21:14	
Ethylbenzene	ND	0.50	ug/L	1.00	07/04/2003 21:14	
Total xylenes	ND	1.0	ug/L	1.00	07/04/2003 21:14	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/04/2003 21:14	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/04/2003 21:14	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/04/2003 21:14	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/04/2003 21:14	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/04/2003 21:14	
1,2-DCA	ND	0.50	ug/L	1.00	07/04/2003 21:14	
EDB	ND	0.50	ug/L	1.00	07/04/2003 21:14	
Ethanol	ND	50	ug/L	1.00	07/04/2003 21:14	
Surrogates(s)						
1,2-Dichloroethane-d4	102.9	76-130	%	1.00	07/04/2003 21:14	
Toluene-d8	102.3	78-115	%	1.00	07/04/2003 21:14	

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-13-W	Lab ID:	2003-06-0896 - 24
Sampled:	06/23/2003 14:40	Extracted:	7/4/2003 21:36
Matrix:	Water	QC Batch#:	2003/07/04-1a.64

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/04/2003 21:36	
Benzene	0.89	0.50	ug/L	1.00	07/04/2003 21:36	
Toluene	0.52	0.50	ug/L	1.00	07/04/2003 21:36	
Ethylbenzene	ND	0.50	ug/L	1.00	07/04/2003 21:36	
Total xylenes	ND	1.0	ug/L	1.00	07/04/2003 21:36	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/04/2003 21:36	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/04/2003 21:36	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/04/2003 21:36	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/04/2003 21:36	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/04/2003 21:36	
1,2-DCA	ND	0.50	ug/L	1.00	07/04/2003 21:36	
EDB	ND	0.50	ug/L	1.00	07/04/2003 21:36	
Ethanol	ND	50	ug/L	1.00	07/04/2003 21:36	
Surrogates(s)						
1,2-Dichloroethane-d4	99.6	76-130	%	1.00	07/04/2003 21:36	
Toluene-d8	96.7	78-115	%	1.00	07/04/2003 21:36	

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Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch # 2003/07/04-1a.64
MB: 2003/07/04-1a.64-052		Date Extracted: 07/04/2003 20:52

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/04/2003 20:52	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/04/2003 20:52	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/04/2003 20:52	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/04/2003 20:52	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/04/2003 20:52	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/04/2003 20:52	
1,2-DCA	ND	0.5	ug/L	07/04/2003 20:52	
EDB	ND	0.5	ug/L	07/04/2003 20:52	
Benzene	ND	0.5	ug/L	07/04/2003 20:52	
Toluene	ND	0.5	ug/L	07/04/2003 20:52	
Ethylbenzene	ND	0.5	ug/L	07/04/2003 20:52	
Total xylenes	ND	1.0	ug/L	07/04/2003 20:52	
Ethanol	ND	50	ug/L	07/04/2003 20:52	
Surrogates(s)					
1,2-Dichloroethane-d4	107.3	76-130	%	07/04/2003 20:52	
Toluene-d8	100.3	78-115	%	07/04/2003 20:52	

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Site: 1784 150th St., San Leandro

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch # 2003/07/04-1b.65
MB: 2003/07/04-1b.65-045		Date Extracted: 07/04/2003 20:45

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/04/2003 20:45	
Benzene	ND	0.5	ug/L	07/04/2003 20:45	
Toluene	ND	0.5	ug/L	07/04/2003 20:45	
Ethylbenzene	ND	0.5	ug/L	07/04/2003 20:45	
Total xylenes	ND	1.0	ug/L	07/04/2003 20:45	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/04/2003 20:45	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/04/2003 20:45	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/04/2003 20:45	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/04/2003 20:45	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/04/2003 20:45	
1,2-DCA	ND	0.5	ug/L	07/04/2003 20:45	
EDB	ND	0.5	ug/L	07/04/2003 20:45	
Ethanol	ND	50	ug/L	07/04/2003 20:45	
Surrogates(s)					
1,2-Dichloroethane-d4	95.0	76-130	%	07/04/2003 20:45	
Toluene-d8	98.3	78-115	%	07/04/2003 20:45	

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Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/07/04-1a.64			
LCS	2003/07/04-1a.64-007			Extracted: 07/04/2003			Analyzed: 07/04/2003 20:07			
LCSD	2003/07/04-1a.64-030			Extracted: 07/04/2003			Analyzed: 07/04/2003 20:30			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.6	20.7	25	82.4	82.8	0.5	65-165	20		
Benzene	20.6	18.9	25	82.4	75.6	8.6	69-129	20		
Toluene	21.3	21.1	25	85.2	84.4	0.9	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	502	508	500	100.4	101.6		76-130			
Toluene-d8	508	495	500	101.6	99.0		78-115			

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Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/07/04-1b.65				
LCS	2003/07/04-1b.65-007		Extracted: 07/04/2003			Analyzed: 07/04/2003 21:07				
LCSD	2003/07/04-1b.65-030		Extracted: 07/04/2003			Analyzed: 07/04/2003 21:30				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		Rec.	RPD	LCS	LCSD
Benzene	22.5	22.2	25	90.0	88.8	1.3	69-129	20		
Toluene	23.0	22.6	25	92.0	90.4	1.8	70-130	20		
Methyl tert-butyl ether (MTBE)	17.2	17.1	25	68.8	68.4	0.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	451	432	500	90.2	86.4		76-130			
Toluene-d8	502	503	500	100.4	100.6		78-115			

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Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-10-10`	06/23/2003 09:15	Soil	1
SB-10-20`	06/23/2003 09:50	Soil	3
SB-10-22`	06/23/2003 10:00	Soil	4
SB-10-25`	06/23/2003 10:10	Soil	5
SB-10-30`	06/23/2003 10:30	Soil	7
SB-10-37`	06/23/2003 10:50	Soil	9
SB-10-39.5`	06/23/2003 11:00	Soil	10
SB-16-10`	06/23/2003 11:30	Soil	11
SB-16-20`	06/23/2003 12:00	Soil	12
SB-16-24`	06/23/2003 12:10	Soil	13
SB-16-28`	06/23/2003 12:30	Soil	16
SB-16-35`	06/23/2003 13:00	Soil	18
SB-16-39.5`	06/23/2003 13:15	Soil	19
SB-13-10`	06/23/2003 14:00	Soil	20
SB-13-20`	06/23/2003 14:30	Soil	22
SB-13-24`	06/23/2003 14:35	Soil	23
SB-13-30`	06/23/2003 14:55	Soil	26
SB-13-35`	06/23/2003 15:00	Soil	27
SB-13-39.5`	06/23/2003 15:10	Soil	28

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Site: 1784 150th St., San Leandro

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: SB-10-10	Lab ID: 2003-06-0896 - 1
Sampled: 06/23/2003 09:15	Extracted: 7/2/2003 17:47
Matrix: Soil	QC Batch#: 2003/07/02-2c.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 17:47	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 17:47	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 17:47	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 17:47	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 17:47	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 17:47	
Surrogates(s)						
1,2-Dichloroethane-d4	100.4	70-121	%	1.00	07/02/2003 17:47	
Toluene-d8	100.1	81-117	%	1.00	07/02/2003 17:47	

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-10-20	Lab ID:	2003-06-0896 - 3
Sampled:	06/23/2003 09:50	Extracted:	7/2/2003 20:00
Matrix:	Soil	QC Batch#:	2003/07/02-2c.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 20:00	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 20:00	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 20:00	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 20:00	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 20:00	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 20:00	
Surrogates(s)						
1,2-Dichloroethane-d4	101.5	70-121	%	1.00	07/02/2003 20:00	
Toluene-d8	95.9	81-117	%	1.00	07/02/2003 20:00	

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Site: 1784 150th St., San Leandro

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: SB-10-22	Lab ID: 2003-06-0896 - 4
Sampled: 06/23/2003 10:00	Extracted: 7/2/2003 20:23
Matrix: Soil	QC Batch#: 2003/07/02-2c.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 20:23	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 20:23	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 20:23	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 20:23	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 20:23	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 20:23	
Surrogates(s)						
1,2-Dichloroethane-d4	97.7	70-121	%	1.00	07/02/2003 20:23	
Toluene-d8	99.7	81-117	%	1.00	07/02/2003 20:23	

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-10-25	Lab ID:	2003-06-0896 - 5
Sampled:	06/23/2003 10:10	Extracted:	7/2/2003 21:52
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 21:52	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 21:52	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 21:52	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 21:52	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 21:52	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 21:52	
Surrogates(s)						
1,2-Dichloroethane-d4	95.2	70-121	%	1.00	07/02/2003 21:52	
Toluene-d8	98.2	81-117	%	1.00	07/02/2003 21:52	

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-10-30	Lab ID:	2003-06-0896 - 7
Sampled:	06/23/2003 10:30	Extracted:	7/7/2003 10:09
Matrix:	Soil	QC Batch#:	2003/07/07-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/07/2003 10:09	
Benzene	ND	0.0050	mg/Kg	1.00	07/07/2003 10:09	
Toluene	ND	0.0050	mg/Kg	1.00	07/07/2003 10:09	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/07/2003 10:09	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/07/2003 10:09	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/07/2003 10:09	
Surrogates(s)						
1,2-Dichloroethane-d4	93.3	70-121	%	1.00	07/07/2003 10:09	
Toluene-d8	105.6	81-117	%	1.00	07/07/2003 10:09	

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Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-10-37	Lab ID:	2003-06-0896 - 9
Sampled:	06/23/2003 10:50	Extracted:	7/2/2003 22:36
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 22:36	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 22:36	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 22:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 22:36	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 22:36	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 22:36	
Surrogates(s)						
1,2-Dichloroethane-d4	101.6	70-121	%	1.00	07/02/2003 22:36	
Toluene-d8	93.5	81-117	%	1.00	07/02/2003 22:36	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007

98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-10-39.5	Lab ID:	2003-06-0896 - 10
Sampled:	06/23/2003 11:00	Extracted:	7/2/2003 22:59
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 22:59	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 22:59	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 22:59	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 22:59	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 22:59	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 22:59	
Surrogates(s)						
1,2-Dichloroethane-d4	103.8	70-121	%	1.00	07/02/2003 22:59	
Toluene-d8	96.1	81-117	%	1.00	07/02/2003 22:59	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-16-10	Lab ID:	2003-06-0896 - 11
Sampled:	06/23/2003 11:30	Extracted:	7/2/2003 23:21
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 23:21	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 23:21	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 23:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 23:21	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 23:21	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 23:21	
Surrogates(s)						
1,2-Dichloroethane-d4	99.9	70-121	%	1.00	07/02/2003 23:21	
Toluene-d8	96.3	81-117	%	1.00	07/02/2003 23:21	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-16-20	Lab ID:	2003-06-0896 - 12
Sampled:	06/23/2003 12:00	Extracted:	7/2/2003 23:43
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 23:43	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 23:43	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 23:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 23:43	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 23:43	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 23:43	
Surrogates(s)						
1,2-Dichloroethane-d4	103.4	70-121	%	1.00	07/02/2003 23:43	
Toluene-d8	99.5	81-117	%	1.00	07/02/2003 23:43	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-16-24	Lab ID:	2003-06-0896 - 13
Sampled:	06/23/2003 12:10	Extracted:	7/3/2003 00:06
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 00:06	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:06	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:06	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:06	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 00:06	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 00:06	
Surrogates(s)						
1,2-Dichloroethane-d4	99.8	70-121	%	1.00	07/03/2003 00:06	
Toluene-d8	102.6	81-117	%	1.00	07/03/2003 00:06	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-16-28	Lab ID:	2003-06-0896-16
Sampled:	06/23/2003 12:30	Extracted:	7/3/2003 00:28
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 00:28	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:28	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:28	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 00:28	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 00:28	
Surrogates(s)						
1,2-Dichloroethane-d4	120.7	70-121	%	1.00	07/03/2003 00:28	
Toluene-d8	98.5	81-117	%	1.00	07/03/2003 00:28	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
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Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-16-35	Lab ID:	2003-06-0896 - 18
Sampled:	06/23/2003 13:00	Extracted:	7/3/2003 00:50
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 00:50	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:50	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 00:50	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 00:50	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 00:50	
Surrogates(s)						
1,2-Dichloroethane-d4	103.4	70-121	%	1.00	07/03/2003 00:50	
Toluene-d8	99.2	81-117	%	1.00	07/03/2003 00:50	

Severn Trent Laboratories, Inc.

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07/14/2003 12:22

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
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Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-16-39.5	Lab ID:	2003-06-0896 - 19
Sampled:	06/23/2003 13:15	Extracted:	7/3/2003 01:13
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 01:13	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 01:13	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 01:13	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 01:13	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 01:13	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 01:13	
Surrogates(s)						
1,2-Dichloroethane-d4	98.5	70-121	%	1.00	07/03/2003 01:13	
Toluene-d8	100.7	81-117	%	1.00	07/03/2003 01:13	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-13-10	Lab ID:	2003-06-0896 - 20
Sampled:	06/23/2003 14:00	Extracted:	7/3/2003 01:35
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 01:35	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 01:35	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 01:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 01:35	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 01:35	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 01:35	
Surrogates(s)						
1,2-Dichloroethane-d4	101.8	70-121	%	1.00	07/03/2003 01:35	
Toluene-d8	100.4	81-117	%	1.00	07/03/2003 01:35	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-13-20	Lab ID:	2003-06-0896 - 22
Sampled:	06/23/2003 14:30	Extracted:	7/3/2003 02:42
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 02:42	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 02:42	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 02:42	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 02:42	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 02:42	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 02:42	
Surrogates(s)						
1,2-Dichloroethane-d4	97.0	70-121	%	1.00	07/03/2003 02:42	
Toluene-d8	96.7	81-117	%	1.00	07/03/2003 02:42	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-13-24	Lab ID:	2003-06-0896 - 23
Sampled:	06/23/2003 14:35	Extracted:	7/3/2003 03:05
Matrix:	Soil	QC Batch#:	2003/07/02-03.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 03:05	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 03:05	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 03:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 03:05	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 03:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 03:05	
Surrogates(s)						
1,2-Dichloroethane-d4	101.3	70-121	%	1.00	07/03/2003 03:05	
Toluene-d8	97.2	81-117	%	1.00	07/03/2003 03:05	

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-13-30	Lab ID:	2003-06-0896 - 26
Sampled:	06/23/2003 14:55	Extracted:	7/3/2003 10:36
Matrix:	Soil	QC Batch#:	2003/07/03-1a-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 10:36	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 10:36	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 10:36	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 10:36	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 10:36	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 10:36	
Surrogates(s)						
1,2-Dichloroethane-d4	95.0	70-121	%	1.00	07/03/2003 10:36	
Toluene-d8	97.8	81-117	%	1.00	07/03/2003 10:36	

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Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-13-35	Lab ID:	2003-06-0896 -27
Sampled:	06/23/2003 15:00	Extracted:	7/3/2003 11:21
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 11:21	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 11:21	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 11:21	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 11:21	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 11:21	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 11:21	
Surrogates(s)						
1,2-Dichloroethane-d4	99.5	70-121	%	1.00	07/03/2003 11:21	
Toluene-d8	96.6	81-117	%	1.00	07/03/2003 11:21	

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07/14/2003 12:22

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-13-39.5	Lab ID:	2003-06-0896 -28
Sampled:	06/23/2003 15:10	Extracted:	7/3/2003 11:43
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 11:43	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 11:43	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 11:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 11:43	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 11:43	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 11:43	
Surrogates(s)						
1,2-Dichloroethane-d4	96.0	70-121	%	1.00	07/03/2003 11:43	
Toluene-d8	100.6	81-117	%	1.00	07/03/2003 11:43	

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Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report			
Prep(s): 5030B			Test(s): 8260FAB
Method Blank		Soil	QC Batch # 2003/07/02-03.62
MB: 2003/07/02-03.62-029			Date Extracted: 07/02/2003 21:29

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	07/02/2003 21:29	
Benzene	ND	0.0050	mg/Kg	07/02/2003 21:29	
Toluene	ND	0.0050	mg/Kg	07/02/2003 21:29	
Ethyl benzene	ND	0.0050	mg/Kg	07/02/2003 21:29	
Total xylenes	ND	0.0050	mg/Kg	07/02/2003 21:29	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	07/02/2003 21:29	
Surrogates(s)					
1,2-Dichloroethane-d4	97.1	70-121	%	07/02/2003 21:29	
Toluene-d8	96.1	81-117	%	07/02/2003 21:29	

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07/14/2003 12:22

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Soil	QC Batch # 2003/07/02-2c.62
MB: 2003/07/02-2c.62-039		Date Extracted: 07/02/2003 10:39

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	ug/Kg	07/02/2003 10:39	
Methyl tert-butyl ether (MTBE)	ND	0.0050	ug/Kg	07/02/2003 10:39	
Benzene	ND	0.0050	ug/Kg	07/02/2003 10:39	
Toluene	ND	0.0050	ug/Kg	07/02/2003 10:39	
Ethyl benzene	ND	0.0050	ug/Kg	07/02/2003 10:39	
Total xylenes	ND	0.0050	ug/Kg	07/02/2003 10:39	
Surrogates(s)					
1,2-Dichloroethane-d4	99.7	70-121	%	07/02/2003 10:39	
Toluene-d8	95.5	81-117	%	07/02/2003 10:39	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Soil		QC Batch # 2003/07/03-1a.62	
MB: 2003/07/03-1a.62-014				Date Extracted: 07/03/2003 10:14	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	ug/Kg	07/03/2003 10:14	
Methyl tert-butyl ether (MTBE)	ND	0.0050	ug/Kg	07/03/2003 10:14	
Benzene	ND	0.0050	ug/Kg	07/03/2003 10:14	
Toluene	ND	0.0050	ug/Kg	07/03/2003 10:14	
Ethyl benzene	ND	0.0050	ug/Kg	07/03/2003 10:14	
Total xylenes	ND	0.0050	ug/Kg	07/03/2003 10:14	
Surrogates(s)					
1,2-Dichloroethane-d4	95.3	70-121	%	07/03/2003 10:14	
Toluene-d8	95.8	81-117	%	07/03/2003 10:14	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Soil		QC Batch # 2003/07/07-1a.62	
MB: 2003/07/07-1a.62-042				Date Extracted: 07/07/2003 09:42	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	ug/Kg	07/07/2003 09:42	
Methyl tert-butyl ether (MTBE)	ND	0.0050	ug/Kg	07/07/2003 09:42	
Benzene	ND	0.0050	ug/Kg	07/07/2003 09:42	
Toluene	ND	0.0050	ug/Kg	07/07/2003 09:42	
Ethyl benzene	ND	0.0050	ug/Kg	07/07/2003 09:42	
Total xylenes	ND	0.0050	ug/Kg	07/07/2003 09:42	
Surrogates(s)					
1,2-Dichloroethane-d4	98.4	70-121	%	07/07/2003 09:42	
Toluene-d8	103.8	81-117	%	07/07/2003 09:42	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report			
Prep(s): 5030B		Test(s): 8260FAB	
Laboratory Control Spike		Soil	
QC Batch # 2003/07/02-03.62			
LCS	2003/07/02-03.62-045	Extracted: 07/02/2003	Analyzed: 07/02/2003 20.45
LCSD	2003/07/02-03.62-007	Extracted: 07/02/2003	Analyzed: 07/02/2003 21.07

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	53.2	52.8	50.0	106.4	105.6	0.8	69-129	20		
Toluene	51.4	51.9	50.0	102.8	103.8	1.0	70-130	20		
Methyl tert-butyl ether (MTBE)	57.3	53.8	50.0	114.6	107.6	6.3	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	497	464	500	99.4	92.8		70-121			
Toluene-d8	498	502	500	99.6	100.4		81-117			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Soil			QC Batch # 2003/07/02-2c.62				
LCS	2003/07/02-2c.62-056		Extracted: 07/02/2003			Analyzed: 07/02/2003 09:55				
LCSD	2003/07/02-2c.62-017		Extracted: 07/02/2003			Analyzed: 07/02/2003 10:17				
Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	57.2	59.7	50	114.4	119.4	4.3	65-165	20		
Benzene	53.0	50.1	50	106.0	100.2	5.6	69-129	20		
Toluene	50.3	48.6	50	100.6	97.2	3.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	489	509	500	97.8	101.8		70-121			
Toluene-d8	505	490	500	101.0	98.0		81-117			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Soil			QC Batch # 2003/07/03-1a.62			
LCS	2003/07/03-1a.62-029			Extracted: 07/03/2003		Analyzed: 07/03/2003 09:29				
LCSD	2003/07/03-1a.62-051			Extracted: 07/03/2003		Analyzed: 07/03/2003 09:51				
Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	51.7	55.3	50	103.4	110.6	6.7	65-165	20		
Benzene	49.9	53.1	50	99.8	106.2	6.2	69-129	20		
Toluene	48.5	52.2	50	97.0	104.4	7.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	489	472	500	97.8	94.4		70-121			
Toluene-d8	496	521	500	99.2	104.2		81-117			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/14/2003 12:22

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Soil			QC Batch # 2003/07/07-1a.62				
LCS	2003/07/07-1a.62-057		Extracted: 07/07/2003			Analyzed: 07/07/2003 08:57				
LCSD	2003/07/07-1a.62-020		Extracted: 07/07/2003			Analyzed: 07/07/2003 09:20				
Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	57.5	57.8	50	115.0	115.6	0.5	65-165	20		
Benzene	52.6	55.2	50	105.2	110.4	4.8	69-129	20		
Toluene	53.1	53.3	50	106.2	106.6	0.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	483	496	500	96.6	99.2		70-121			
Toluene-d8	506	529	500	101.2	105.8		81-117			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report			
Prep(s):	5030B	Test(s):	8260FAB
Matrix Spike (MS / MSD)		Soil	QC Batch # 2003/07/02-03.62
SB-13-10	>> MS		Lab ID: 2003-06-0896 - 020
MS:	2003/07/02-03.62-058	Extracted:	07/03/2003 01:58
			Dilution: 1.00
MSD:	2003/07/02-03.62-020	Extracted:	07/03/2003 02:20
			Dilution: 1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	52.4	46.0	0.120	49.6	105.4	105.5	0.1	69-129	20		
Toluene	50.8	44.1	0.370	49.6	101.7	100.5	1.2	70-130	20		
Methyl tert-butyl ether	57.0	54.5	0.180	49.6	114.6	124.9	8.6	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	501	524		500	100.2	104.8		70-121			
Toluene-d8	482	493		500	96.4	98.6		81-117			

STL-San Francisco

SHELL Chain Of Custody Record

75550

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be Invoiced:

SCIENCE & ENGINEERING Karen Petryna
 TECHNICAL SERVICES
 CRMT HOUSTON

2003-06-0896

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 6 0 6 8

SAP or CRMT NUMBER (S/CRMT)

1 3 6 0 1 9

DATE: 6/25/03

PAGE: 1 of 3

SAMPLING COMPANY: Cambria Environmental		LOG CODE:	SITE ADDRESS (Street and City): 1784 150th St, San Leandro CA		GLOBAL ID NO: T0600101230
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608		COP DELIVERABLE TO (Contractor/Party/Designer):		PHONE NO:	CONSULTANT PROJECT NO:
PROJECT CONTACT (Name/Title) or POC Report to:		shell@oaklandedf@cambria-env.com		510-420-3339	sdalle@cambria-env.com
STU DALLE		SAMPLER NAME(S): Stu Dalle		LAB USE ONLY	
TELEPHONE: 510-420-3339	FAX: 510-420-9170	EMAIL: sdalle@cambria-env.com			
TURNAROUND TIME (BUSINESS DAYS): <input checked="" type="checkbox"/> 10 DAYS <input type="checkbox"/> 5 DAYS <input type="checkbox"/> 72 HOURS <input type="checkbox"/> 48 HOURS <input type="checkbox"/> 24 HOURS <input type="checkbox"/> LESS THAN 24 HOURS		REQUESTED ANALYSIS			

LA - RWQCB REPORT FORMAT LIST AGENCY
 GC/MS/MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____
 SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EGO IS NOT NEEDED
 cc: lab report to sdalle@cambria-env
 Be sure that Field Point names are correct. See field notes.
 Any questions please call 510-420-3339

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Totalable	TPH - Extractable (8015m)	BTEX	MTBE	18A	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8290B	Semi-Volatiles by 8290C	Lead <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	LUP15 <input type="checkbox"/> TSP <input type="checkbox"/> SLC <input type="checkbox"/> TSP	CRMT17 <input type="checkbox"/> TSP <input type="checkbox"/> SLC <input type="checkbox"/> TSP	Test for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																		
	SB-10-10'	6/23	9:15	Soil	1	X		X	X												
	SB-10-15.5'		9:30		1	X		X	X												} SB-10
	SB-10-20'		9:30		1	X		X	X												
	SB-10-22'		10:00		1	X		X	X												
	SB-10-25'		10:00		1	X		X	X												
	SB-10-W		10:29	150 Chem	1	X		X	X	X	X	X									
	SB-10-30'		10:30	Soil	1	X		X	X												
	SB-10-35'		10:30		1	X		X	X												
	SB-10-37'		10:30		1	X		X	X												
	SB-10-39.5'		11:00		1	X		X	X												

Relinquished by (Signature): <i>Stu Dalle</i>	Received by (Signature): Cambria Environmental, safe location, stewart dalle/ sample refrigerator	Date: 6/26/03	Time: 4:00
Relinquished by (Signature): <i>D Jones</i>	Received by (Signature): <i>[Signature]</i>	Date: 6/27/03	Time: 1420
Relinquished by (Signature): <i>[Signature]</i>	Received by (Signature): Denise Harrington / STL-SF	Date: 6.27.03	Time: 1610

STL-San Francisco

SHELL Chain Of Custody Record

75550

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be Invoiced:

SCIENCE & ENVIRONMENTAL SERVICES Karon Polyzio

TECHNICAL SERVICES

CRMT HOUSTON

2003-06-0896

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 6 0 6 8

SAP OR GRMT NUMBER (ITS/GRMT)

1 3 6 0 1 9

DATE 6/23/03

PAGE 2 of 3

SAMPLING COMPANY: Cambria Environmental

ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94609

PROJECT CONTACT (Analyst or RFP Reporter): Stu Dalie

TELEPHONE: 510-420-3339 FAX: 510-420-9170 EMAIL: sdalie@cambria-env.com

SITE ADDRESS (Street and City): 1754 150th St, San Leandro, CA

CLIENT/OWNER TO (Responsible Party or Employer): T0600101230

CONTRACT NUMBER: 245-0812-007

CONSULTANT PROJECT ID: 245-0812-007

EMAIL: sdalie@cambria-env.com

PHONE NO: 510-420-3339

SAMPLER NAME: Stu Dalie

LAB USE ONLY

REQUESTED ANALYSIS

TURNAROUND TIME (BUSINESS DAYS):

10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWCC REPORT FORMAT DIST AGENCY

GCMS ATRC CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDD IS NOT NEEDED

cc: lab report to sdalie@cambria-env

Be sure that Field Point names are correct. See field notes

Any questions please call 510-420-3339

*also raw
analyzed
on
6/23/03*

*TAKE
DATE*

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

ON ICE

Field Point Name

LAB USE ONLY	Field Sample Identification				NO. OF CONT.	TPH - Purgable	TPH - Extractable (80/15m)	BTEX	MTBE	GSA	1,2 DCA and EDB	Phenol	Methanol	VOCs by 8250B	Semi-Volatiles by 8270C	Lead	LURIs	CAMP7	Test for Disposal	FIELD NOTES	
	DATE	TIME	MATRIX																		
	SB-16-10'	6/23	11:30	Soil	1	X	X	X													
	SB-16-15'		11:45		1	X	X	X													HOLD SB-16-15'
	SB-16-20'		12:00		1	X	X	X													
	SB-16-24'		12:10		1	X	X	X													
	SB-16-W		12:15	H ₂ O	4	X	X	X	X	X	X	X	X								
	SB-16-25'		12:20	Soil	1	X	X	X													HOLD SB-16-15'
	SB-16-28'		12:30		1	X	X	X													
	SB-16-30'		12:45		1	X	X	X													HOLD SB-16-30'
	SB-16-35'		1:00		1	X	X	X													
	SB-16-37.5'		1:15		1	X	X	X													

SB-16

Requested by (Signature): <i>[Signature]</i>	Received by (Signature): Cambria Environmental, safe location, Stewart Dalie / sample refrigerator	Date: 6/26/03	Time: 4:00
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6-27-03	Time: 1420
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): Dennis Harrington / STL-SF	Date: 6-27-03	Time: 1610

03000401 (11/14/00) 0102

STL-San Francisco

SHELL Chain Of Custody Record

75550

1220 Quarry Lane
Pleasanton, CA 94565

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT INDUSTRY

Karen Patryna

2003-06-0896

INCIDENT NUMBER (S&E ONLY)

9 8 9 6 0 6 8

SAP or CRMT NUMBER (TS/CRMT)

1 3 6 0 1 9

DATE: 6/20/03

PAGE: 3 of 3

SAMPLING COMPANY: Cambria Environmental
150 CODE: [Blank]
SITE ADDRESS (Street and City): 1784 150th Street, San Leandro, CA 94608
GLOBAL ID NO.: T0600101230
ADDRESS: 9900 Hollis Street, Suite A, Emeryville, CA 94608
EPP DELIVERABLE TO (Responsible Party or Company): shell@looklandea@cambria-env.com 510-420-3339
E-MAIL: sdalio@cambria-env.com
PROJECT CONTACT (Hardcopy or PDF Report to): Stu Dalio
SAMPLER NAME(S): Stu Dalio
LAB USE ONLY: 245-0612-007

TURNAROUND TIME (BUSINESS DAYS)
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - AVOID REPORT FORMAT USE AGENCY

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BOWING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NOT NEEDED

cc: lab report to sdalio@cambria-env

Be sure that Field Point names are correct. See field notes.

Any questions please call 510-420-3339

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING		MATRIX	NO. OF CONT.	TPH - Prugable	TPH - Extractable (def 5m)	BTEX	MTBE	IBA	TAME, ETBE PIPE	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8250B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> ATC <input type="checkbox"/> TSP	LUFTS <input type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TSP	CAM7 <input type="checkbox"/> Total <input type="checkbox"/> STC <input type="checkbox"/> TSP	Test for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
		DATE	TIME																			
	SB- 13-10'	6/13	2:00	Soil	1	X		X	X													
	SB- 13-15'		2:15		1	X		X	X													} SB-13
	SB- 13-20'		2:30		1	X		X	X													
	SB- 13-24'		2:55		1	X		X	X													
	SB- 13-W		2:40	H ₂ O wet	1	X		X	X	X	X	X										
	SB- 13-25'		2:45	Soil	1	X		X	X													
	SB- 13-30'		2:55		1	X		X	X													
	SB- 13-35'		3:00		1	X		X	X													
	SB- 13-39.5'		3:10		1	X		X	X													

Requested by (Signature): [Signature]
Received by (Signature): Cambria Environmental, safe location, Stewart Dalio/ sample refrigerator
Date: 6/26/03 Time: 400
Requested by (Signature): [Signature]
Received by (Signature): [Signature]
Date: 6-27-03 Time: 1420
Requested by (Signature): [Signature]
Received by (Signature): Denise Harrington / STL-SF
Date: 6-27-03 Time: 1616

LEGEND: Write with ballpoint, Green to File, Yellow and Pink to Client.

TIME/DATE REVIEW

O&S Signature: 7/14/03-8/1/02

Cambria Environmental Emeryville

July 10, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Stu Dalie

Project#: 245-0612-007

Project: 98996068

Site: 1784 150th St., San Leandro

Dear Mr. Dalie:

Attached is our report for your samples received on 06/27/2003 16:10

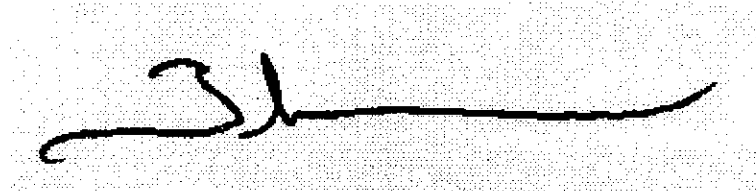
This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/11/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-12-10'	06/24/2003 09:15	Soil	1
SB-12-20'	06/24/2003 09:45	Soil	3
SB-12-25'	06/24/2003 10:10	Soil	5
SB-12-30'	06/24/2003 10:20	Soil	6
SB-12-35'	06/24/2003 10:30	Soil	7
SB-12-39.5'	06/24/2003 10:45	Soil	8
SB-14-10'	06/24/2003 11:00	Soil	9
SB-14-20'	06/24/2003 11:30	Soil	11
SB-14-30'	06/24/2003 11:50	Soil	13
SB-14-35'	06/24/2003 12:00	Soil	14
SB-14-39.5'	06/24/2003 12:15	Soil	15
SB-14-24'	06/24/2003 11:41	Soil	17
SB-11-10'	06/24/2003 13:00	Soil	18
SB-11-15'	06/24/2003 13:15	Soil	19
SB-11-20'	06/24/2003 13:20	Soil	20
SB-11-24'	06/24/2003 13:22	Soil	24
SB-11-28'	06/24/2003 13:42	Soil	25

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-12-10	Lab ID:	2003-06-0887 - 1
Sampled:	06/24/2003 09:15	Extracted:	7/3/2003 12:05
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 12:05	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:05	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:05	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 12:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 12:05	
Surrogates(s)						
1,2-Dichloroethane-d4	96.8	70-121	%	1.00	07/03/2003 12:05	
Toluene-d8	96.6	81-117	%	1.00	07/03/2003 12:05	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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07/10/2003 16:15

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-12-20	Lab ID:	2003-06-0887 - 3
Sampled:	06/24/2003 09:45	Extracted:	7/3/2003 12:28
Matrix:	Soil	QC Batch#:	2003/07/03-1a-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 12:28	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:28	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:28	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:28	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 12:28	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 12:28	
Surrogates(s)						
1,2-Dichloroethane-d4	94.7	70-121	%	1.00	07/03/2003 12:28	
Toluene-d8	100.7	81-117	%	1.00	07/03/2003 12:28	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-12-25	Lab ID:	2003-06-0887 -5
Sampled:	06/24/2003 10:10	Extracted:	7/3/2003 12:50
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 12:50	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:50	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 12:50	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 12:50	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 12:50	
Surrogates(s)						
1,2-Dichloroethane-d4	97.2	70-121	%	1.00	07/03/2003 12:50	
Toluene-d8	100.4	81-117	%	1.00	07/03/2003 12:50	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
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Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-12-30	Lab ID:	2003-06-0887 - 6
Sampled:	06/24/2003 10:20	Extracted:	7/3/2003 13:12
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 13:12	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:12	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:12	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:12	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 13:12	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 13:12	
Surrogates(s)						
1,2-Dichloroethane-d4	96.4	70-121	%	1.00	07/03/2003 13:12	
Toluene-d8	98.4	81-117	%	1.00	07/03/2003 13:12	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-12-35	Lab ID:	2003-06-0887 - 7
Sampled:	06/24/2003 10:30	Extracted:	7/3/2003 13:35
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 13:35	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:35	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:35	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:35	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 13:35	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 13:35	
Surrogates(s)						
1,2-Dichloroethane-d4	95.3	70-121	%	1.00	07/03/2003 13:35	
Toluene-d8	94.3	81-117	%	1.00	07/03/2003 13:35	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260EAB
Sample ID:	SB-12-39.5	Lab ID:	2003-06-0887 - 8
Sampled:	06/24/2003 10:45	Extracted:	7/3/2003 13:57
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 13:57	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:57	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:57	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 13:57	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 13:57	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 13:57	
Surrogates(s)						
1,2-Dichloroethane-d4	98.6	70-121	%	1.00	07/03/2003 13:57	
Toluene-d8	98.3	81-117	%	1.00	07/03/2003 13:57	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-14-10	Lab ID:	2003-06-0887 - 9
Sampled:	06/24/2003 11:00	Extracted:	7/3/2003 14:19
Matrix:	Soil	QC Batch#:	2003/07/03-1a-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 14:19	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 14:19	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 14:19	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 14:19	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 14:19	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 14:19	
Surrogates(s)						
1,2-Dichloroethane-d4	96.2	70-121	%	1.00	07/03/2003 14:19	
Toluene-d8	99.4	81-117	%	1.00	07/03/2003 14:19	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-14-20	Lab ID:	2003-06-0887 - 11
Sampled:	06/24/2003 11:30	Extracted:	7/3/2003 14:41
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 14:41	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 14:41	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 14:41	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 14:41	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 14:41	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 14:41	
Surrogates(s)						
1,2-Dichloroethane-d4	104.7	70-121	%	1.00	07/03/2003 14:41	
Toluene-d8	88.3	81-117	%	1.00	07/03/2003 14:41	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-14-30	Lab ID:	2003-06-0887 - 13
Sampled:	06/24/2003 11:50	Extracted:	7/3/2003 15:04
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 15:04	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:04	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:04	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:04	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 15:04	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 15:04	
Surrogates(s)						
1,2-Dichloroethane-d4	97.7	70-121	%	1.00	07/03/2003 15:04	
Toluene-d8	95.8	81-117	%	1.00	07/03/2003 15:04	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-14-35	Lab ID:	2003-06-0887 - 14
Sampled:	06/24/2003 12:00	Extracted:	7/3/2003 15:26
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 15:26	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:26	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:26	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:26	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 15:26	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 15:26	
Surrogates(s)						
1,2-Dichloroethane-d4	96.6	70-121	%	1.00	07/03/2003 15:26	
Toluene-d8	96.6	81-117	%	1.00	07/03/2003 15:26	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-14-39.5	Lab ID:	2003-06-0887 - 15
Sampled:	06/24/2003 12:15	Extracted:	7/3/2003 15:48
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 15:48	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:48	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:48	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 15:48	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 15:48	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 15:48	
Surrogates(s)						
1,2-Dichloroethane-d4	96.1	70-121	%	1.00	07/03/2003 15:48	
Toluene-d8	81.3	81-117	%	1.00	07/03/2003 15:48	

Severn Trent Laboratories, Inc.

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s): 5030B	Test(s): 8260FAB
Sample ID: SB-14-24	Lab ID: 2003-06-0887 - 17
Sampled: 06/24/2003 11:41	Extracted: 7/3/2003 16:11
Matrix: Soil	QC Batch#: 2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 16:11	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 16:11	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 16:11	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 16:11	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 16:11	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 16:11	
Surrogates(s)						
1,2-Dichloroethane-d4	96.6	70-121	%	1.00	07/03/2003 16:11	
Toluene-d8	101.8	81-117	%	1.00	07/03/2003 16:11	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-11-10	Lab ID:	2003-06-0887 - 18
Sampled:	06/24/2003 13:00	Extracted:	7/3/2003 19:20
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 19:20	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 19:20	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 19:20	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 19:20	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 19:20	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 19:20	
Surrogates(s)						
1,2-Dichloroethane-d4	97.8	70-121	%	1.00	07/03/2003 19:20	
Toluene-d8	96.8	81-117	%	1.00	07/03/2003 19:20	

*Recall field observation
that there was something
like 'free product' in this
boiling...*

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-11-15	Lab ID:	2003-06-0887 - 19
Sampled:	06/24/2003 13:15	Extracted:	7/3/2003 19:43
Matrix:	Soil	QC Batch#:	2003/07/03-1a-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 19:43	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 19:43	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 19:43	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 19:43	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 19:43	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 19:43	
Surrogates(s)						
1,2-Dichloroethane-d4	102.3	70-121	%	1.00	07/03/2003 19:43	
Toluene-d8	97.9	81-117	%	1.00	07/03/2003 19:43	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-11-20	Lab ID:	2003-06-0887 - 20
Sampled:	06/24/2003 13:20	Extracted:	7/3/2003 20:05
Matrix:	Soil	QC Batch#:	2003/07/03-1a:62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 20:05	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:05	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:05	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:05	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 20:05	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 20:05	
Surrogates(s)						
1,2-Dichloroethane-d4	97.2	70-121	%	1.00	07/03/2003 20:05	
Toluene-d8	100.2	81-117	%	1.00	07/03/2003 20:05	

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-11-24	Lab ID:	2003-06-0887 - 24
Sampled:	06/24/2003 13:22	Extracted:	7/3/2003 20:27
Matrix:	Soil	QC Batch#:	2003/07/03-1a-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 20:27	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:27	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:27	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:27	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 20:27	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 20:27	
Surrogates(s)						
1,2-Dichloroethane-d4	93.2	70-121	%	1.00	07/03/2003 20:27	
Toluene-d8	101.3	81-117	%	1.00	07/03/2003 20:27	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-11-28	Lab ID:	2003-06-0887 - 25
Sampled:	06/24/2003 13:42	Extracted:	7/3/2003 20:50
Matrix:	Soil	QC Batch#:	2003/07/03-1a.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/03/2003 20:50	
Benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:50	
Toluene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/03/2003 20:50	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/03/2003 20:50	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/03/2003 20:50	
Surrogates(s)						
1,2-Dichloroethane-d4	96.2	70-121	%	1.00	07/03/2003 20:50	
Toluene-d8	100.0	81-117	%	1.00	07/03/2003 20:50	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Batch QC Report		
Prep(s): 5030B	Soil	Test(s): 8260FAB
Method Blank		QC Batch # 2003/07/03-1a.62
MB: 2003/07/03-1a.62-014		Date Extracted: 07/03/2003 10:14

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	ug/Kg	07/03/2003 10:14	
Methyl tert-butyl ether (MTBE)	ND	0.0050	ug/Kg	07/03/2003 10:14	
Benzene	ND	0.0050	ug/Kg	07/03/2003 10:14	
Toluene	ND	0.0050	ug/Kg	07/03/2003 10:14	
Ethyl benzene	ND	0.0050	ug/Kg	07/03/2003 10:14	
Total xylenes	ND	0.0050	ug/Kg	07/03/2003 10:14	
Surrogates(s)					
1,2-Dichloroethane-d4	95.3	70-121	%	07/03/2003 10:14	
Toluene-d8	95.8	81-117	%	07/03/2003 10:14	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Site: 1784 150th St., San Leandro

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Soil			QC Batch # 2003/07/03-1a.62				
LCS	2003/07/03-1a.62-029		Extracted: 07/03/2003			Analyzed: 07/03/2003 09:29				
LCSD	2003/07/03-1a.62-051		Extracted: 07/03/2003			Analyzed: 07/03/2003 09:51				
Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	51.7	55.3	50	103.4	110.6	6.7	65-165	20		
Benzene	49.9	53.1	50	99.8	106.2	6.2	69-129	20		
Toluene	48.5	52.2	50	97.0	104.4	7.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	489	472	500	97.8	94.4		70-121			
Toluene-d8	496	521	500	99.2	104.2		81-117			

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 245-0612-007

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Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Batch QC Report			
Prep(s):	5030B	Test(s):	8260FAB
Matrix Spike (MS / MSD)		Soil	QC Batch # 2003/07/03-1a.62
SB-12-10	>> MS	Lab ID:	2003-06-0887 - 001
MS:	2003/07/03-1a.62-036	Extracted:	07/03/2003
		Analyzed:	07/03/2003 18:36
		Dilution:	1.00
MSD:	2003/07/03-1a.62-058	Extracted:	07/03/2003
		Analyzed:	07/03/2003 18:58
		Dilution:	1.00

Compound	Conc. mg/Kg			Spk.Level mg/Kg	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	45.4	42.7	0.110	43.9367	103.2	95.4	7.9	69-129	20		
Toluene	45.4	44.2	0.330	43.9367	102.7	98.4	4.3	70-130	20		
Methyl tert-butyl ether	46.5	42.0	ND	43.9367	105.9	94.2	11.7	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	499	477		500	99.8	95.4		70-121			
Toluene-d8	504	506		500	100.8	101.2		81-117			

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-12-W	06/24/2003 10:15	Water	4
SB-14-W	06/24/2003 11:45	Water	16
SB-11-W	06/24/2003 13:40	Water	23

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-12-W	Lab ID:	2003-06-0887 - 4
Sampled:	06/24/2003 10:15	Extracted:	7/5/2003 03:48
Matrix:	Water	QC Batch#:	2003/07/04-1a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	07/05/2003 03:48	
Benzene	ND	0.50	ug/L	1.00	07/05/2003 03:48	
Toluene	ND	0.50	ug/L	1.00	07/05/2003 03:48	
Ethylbenzene	ND	0.50	ug/L	1.00	07/05/2003 03:48	
Total xylenes	ND	1.0	ug/L	1.00	07/05/2003 03:48	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/05/2003 03:48	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/05/2003 03:48	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/05/2003 03:48	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/05/2003 03:48	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/05/2003 03:48	
1,2-DCA	ND	0.50	ug/L	1.00	07/05/2003 03:48	
EDB	ND	0.50	ug/L	1.00	07/05/2003 03:48	
Ethanol	ND	50	ug/L	1.00	07/05/2003 03:48	
Surrogates(s)						
1,2-Dichloroethane-d4	87.5	76-130	%	1.00	07/05/2003 03:48	
Toluene-d8	101.0	78-115	%	1.00	07/05/2003 03:48	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-14-W	Lab ID:	2003-06-0887 - 16
Sampled:	06/24/2003 11:45	Extracted:	7/5/2003 04:11
Matrix:	Water	QC Batch#:	2003/07/04-1a:65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	67000	10000	ug/L	200.00	07/05/2003 04:11	
Benzene	ND	100	ug/L	200.00	07/05/2003 04:11	
Toluene	280	100	ug/L	200.00	07/05/2003 04:11	
Ethylbenzene	3800	100	ug/L	200.00	07/05/2003 04:11	
Total xylenes	16000	200	ug/L	200.00	07/05/2003 04:11	
tert-Butyl alcohol (TBA)	ND	1000	ug/L	200.00	07/05/2003 04:11	
Methyl tert-butyl ether (MTBE)	ND	100	ug/L	200.00	07/05/2003 04:11	
Di-isopropyl Ether (DIPE)	ND	400	ug/L	200.00	07/05/2003 04:11	
Ethyl tert-butyl ether (ETBE)	ND	400	ug/L	200.00	07/05/2003 04:11	
tert-Amyl methyl ether (TAME)	ND	400	ug/L	200.00	07/05/2003 04:11	
1,2-DCA	ND	100	ug/L	200.00	07/05/2003 04:11	
EDB	ND	100	ug/L	200.00	07/05/2003 04:11	
Ethanol	ND	10000	ug/L	200.00	07/05/2003 04:11	
Surrogates(s)						
1,2-Dichloroethane-d4	92.2	76-130	%	200.00	07/05/2003 04:11	
Toluene-d8	101.6	78-115	%	200.00	07/05/2003 04:11	

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Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-11-W	Lab ID:	2003-06-0887 - 23
Sampled:	06/24/2003 13:40	Extracted:	7/5/2003 04:33
Matrix:	Water	QC Batch#:	2003/07/04-1a.65

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	75	50	ug/L	1.00	07/05/2003 04:33	
Benzene	0.84	0.50	ug/L	1.00	07/05/2003 04:33	
Toluene	0.53	0.50	ug/L	1.00	07/05/2003 04:33	
Ethylbenzene	1.5	0.50	ug/L	1.00	07/05/2003 04:33	
Total xylenes	7.1	1.0	ug/L	1.00	07/05/2003 04:33	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	1.00	07/05/2003 04:33	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	07/05/2003 04:33	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	1.00	07/05/2003 04:33	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	1.00	07/05/2003 04:33	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	1.00	07/05/2003 04:33	
1,2-DCA	ND	0.50	ug/L	1.00	07/05/2003 04:33	
EDB	ND	0.50	ug/L	1.00	07/05/2003 04:33	
Ethanol	ND	50	ug/L	1.00	07/05/2003 04:33	
Surrogates(s)						
1,2-Dichloroethane-d4	89.6	76-130	%	1.00	07/05/2003 04:33	
Toluene-d8	101.7	78-115	%	1.00	07/05/2003 04:33	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
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Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260FAB	
Method Blank				QC Batch # 2003/07/04-1a.65	
MB: 2003/07/04-1a.65-045				Date Extracted: 07/04/2003 20:45	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/04/2003 20:45	
Benzene	ND	0.5	ug/L	07/04/2003 20:45	
Toluene	ND	0.5	ug/L	07/04/2003 20:45	
Ethylbenzene	ND	0.5	ug/L	07/04/2003 20:45	
Total xylenes	ND	1.0	ug/L	07/04/2003 20:45	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/04/2003 20:45	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/04/2003 20:45	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/04/2003 20:45	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/04/2003 20:45	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/04/2003 20:45	
1,2-DCA	ND	0.5	ug/L	07/04/2003 20:45	
EDB	ND	0.5	ug/L	07/04/2003 20:45	
Ethanol	ND	50	ug/L	07/04/2003 20:45	
Surrogates(s)					
1,2-Dichloroethane-d4	95.0	76-130	%	07/04/2003 20:45	
Toluene-d8	98.3	78-115	%	07/04/2003 20:45	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike			Water			QC Batch # 2003/07/04-1a.65				
LCS	2003/07/04-1a.65-007		Extracted: 07/04/2003			Analyzed: 07/04/2003 21:07				
LCSD	2003/07/04-1a.65-030		Extracted: 07/04/2003			Analyzed: 07/04/2003 21:30				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	22.5	22.2	25	90.0	88.8	1.3	69-129	20		
Toluene	23.0	22.6	25	92.0	90.4	1.8	70-130	20		
Methyl tert-butyl ether (MTBE)	17.2	17.1	25	68.8	68.4	0.6	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	451	432	500	90.2	86.4		76-130			
Toluene-d8	502	503	500	100.4	100.6		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Matrix Spike (MS / MSD)	Water	QC Batch # 2003/07/04-1a.65
SB-14-W >> MS		Lab ID: 2003-06-0887 - 016
MS: 2003/07/04-1a.65-018	Extracted: 07/05/2003	Analyzed: 07/05/2003 05:18
		Dilution: 200.00
MSD: 2003/07/04-1a.65-040	Extracted: 07/05/2003	Analyzed: 07/05/2003 05:40
		Dilution: 200.00

Compound	Conc. ug/L			Spk.Level ug/L	Recovery %			Limits %		Flags	
	MS	MSD	Sample		MS	MSD	RPD	Rec.	RPD	MS	MSD
Benzene	4480	4460	ND	5000	89.6	89.2	0.4	69-129	20		
Toluene	5010	4950	278	5000	94.6	93.4	1.3	70-130	20		
Methyl tert-butyl ether	4030	3340	23.3	5000	80.1	66.3	18.9	65-165	20		
Surrogate(s)											
1,2-Dichloroethane-d4	474	442		500	94.8	88.5		76-130			
Toluene-d8	506	509		500	101.1	101.7		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Site: 1784 150th St., San Leandro

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

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98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-11-30	06/24/2003 13:50	Soil	22

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Gas/BTEX Fuel Oxygenates by 8260B (High Level)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-11-30	Lab ID:	2003-06-0887 - 22
Sampled:	06/24/2003 13:50	Extracted:	7/5/2003 12:05
Matrix:	Soil	QC Batch#:	2003/07/05-02-62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	650	50	mg/Kg	1.00	07/05/2003 12:05	
Benzene	ND	0.50	mg/Kg	1.00	07/05/2003 12:05	
Toluene	ND	0.50	mg/Kg	1.00	07/05/2003 12:05	
Ethyl benzene	3.5	0.50	mg/Kg	1.00	07/05/2003 12:05	
Total xylenes	9.9	0.50	mg/Kg	1.00	07/05/2003 12:05	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	07/05/2003 12:05	
Surrogates(s)						
1,2-Dichloroethane-d4	86.8	76-130	%	200.00	07/05/2003 12:05	
Toluene-d8	90.2	78-115	%	200.00	07/05/2003 12:05	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Project: 245-0612-007
98996068

Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Batch QC Report			
Prep(s): 5030B			Test(s): 8260B
Method Blank		Soil	QC Batch # 2003/07/05-02.62
MB: 2003/07/05-02.62-043			Date Extracted: 07/05/2003 11:43

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	07/05/2003 11:43	
Benzene	ND	0.50	mg/Kg	07/05/2003 11:43	
Toluene	ND	0.50	mg/Kg	07/05/2003 11:43	
Ethyl benzene	ND	0.50	mg/Kg	07/05/2003 11:43	
Total xylenes	ND	0.50	mg/Kg	07/05/2003 11:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	07/05/2003 11:43	
Surrogates(s)					
1,2-Dichloroethane-d4	89.2	76-130	%	07/05/2003 11:43	
Toluene-d8	99.1	78-115	%	07/05/2003 11:43	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

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Received: 06/27/2003 16:10

Site: 1784 150th St., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/07/05-02.62

LCS 2003/07/05-02.62-058

Extracted: 07/05/2003

Analyzed: 07/05/2003 10:58

LCSD 2003/07/05-02.62-020

Extracted: 07/05/2003

Analyzed: 07/05/2003 11:20

Compound	Conc. mg/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	10800	10500	10000	108.0	105.0	2.8	69-129	20		
Toluene	11200	10300	10000	112.0	103.0	8.4	70-130	20		
Methyl tert-butyl ether (MTBE)	10600	10200	10000	106.0	102.0	3.8	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	232	222	250	92.8	88.8		76-130			
Toluene-d8	270	260	250	108.0	104.0		78-115			

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STL-San Francisco

SHELL Chain Of Custody Record

75549

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Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced:

- SCIENCE & ENGINEERING Karen Patrino
- TECHNICAL SERVICES
- OIL & GAS

2003-06-08887

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 6 0 6 8

SAP or CRMT NUMBER (S/CRMT)

1 3 6 0 1 9

DATE: of 24/03

PAGE: 1 of 3

SAMPLING COMPANY: Cambria Environmental
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608
PROJECT CONTACT (Hardcopy or PDF Reports): Stu Dalle
 Telephone: 510-420-3339 Fax: 510-420-9170 Email: sdalle@cambria-env.com
LABORATORY PROJECT NO.: 245-0612-007

SITE ADDRESS (Street and City): 1781 150th Street, Sausalito, CA 94965
GLOBAL ID: 30600101230

EDP DELIVERABLE TO (Response Party or Supplier): shelloaklandedf@cambria-env.com
PHONE NO.: 510-420-3339
EMAIL: sdalle@cambria-env.com

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA + PWCQB REPORT FORMAT VST AGENCY

OCMS MISE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EOD IS NOT NEEDED

cc: lab report to: sdalle@cambria-env

Be sure that Field Point names are correct. See field notes

Any questions please call 510-420-3339

REQUESTED ANALYSIS

TPH - Purgeable	TPH - Extractable (EOTM)	BTEX	MTBE	IBA	1,2-DCA and EDR	Ethanol	Methanol	VOCs by 8260C	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> SDC <input type="checkbox"/> TSP	LIPTs <input type="checkbox"/> Total <input type="checkbox"/> SDC <input type="checkbox"/> TSP	CAIM7 <input type="checkbox"/> Total <input type="checkbox"/> SDC <input type="checkbox"/> TSP	Test for Disposal
-----------------	--------------------------	------	------	-----	-----------------	---------	----------	---------------	-------------------------	---	--	--	-------------------

FIELD NOTES:
 Container/Preservative or PID Readings or Laboratory Notes
 4.7%
 ON ICE
 Field Point Name

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (EOTM)	BTEX	MTBE	IBA	1,2-DCA and EDR	Ethanol	Methanol	VOCs by 8260C	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> SDC <input type="checkbox"/> TSP	LIPTs <input type="checkbox"/> Total <input type="checkbox"/> SDC <input type="checkbox"/> TSP	CAIM7 <input type="checkbox"/> Total <input type="checkbox"/> SDC <input type="checkbox"/> TSP	Test for Disposal	FIELD NOTES	
	DATE	TIME	DATE	TIME																		
	SB-12-10'		6/24	9:15	Soil	1	X	X	X													
	SB-12-15'			9:30		1	X	X	X													} SB-12
	SB-12-20'			9:45		1	X	X	X													
	SB-12-W			10:15	Soil	1	X	X	X	X	X	X										} SB-12
	SB-12-25'			10:20		1	X	X	X													
	SB-12-30'			10:20		1	X	X	X													} SB-12
	SB-12-35'			10:30		1	X	X	X													
	SB-12-39.5'			10:35		1	X	X	X													} SB-12
	SB-14-10'			11:00		1	X	X	X													
	SB-14-15'			11:10		1	X	X	X													} SB-14

Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) Cambria Environmental, safe location, Stewart Dattel sample refrigerator	Date: 6/26/03	Time: 9:00
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) <i>[Signature]</i>	Date: 6.27.03	Time: 1420
Requested by: (Signature) <i>[Signature]</i>	Received by: (Signature) Nicole Harrington / STL SF	Date: 6.27.03	Time: 1610

03/04/03 INSTRUCTIONS: Write with teal, green, yellow and pink ink only.

03/04/03 INSTRUCTIONS: Write with teal, green, yellow and pink ink only.

STL-San Francisco

SHELL Chain Of Custody Record

75549

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING Karen Patryna
 TECHNICAL SERVICES
 CRIMP INDUSTRIES

2003-06-0887

INCIDENT NUMBER (SAE ONLY)

9 8 9 9 6 0 6 8

SAP or CRMT NUMBER (TS/CRMT)

1 3 6 0 1 9

DATE: 6/27/03

PAGE: 2 of 3

SAMPLING COMPANY: Cambria Environmental		LOG CODE:	SITE ADDRESS (Street and City): 1784 150TH ST San Leandro		OLD ORL ID (P): T0600101230
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608		BSP DELIVERABLE TO (Responsible Party or Design): shelloaklandedf@cambria-env.com		PHONE NO.: 510-420-3339	EMAIL: sdalio@cambria-env.com
PROJECT CONTACT (Personality or PDP Report #): Stu Dalio		SAMPLER NAME(S): Stu Dalio		CONSULTANT PROJECT NO: 245-0612-007	
TELEPHONE: 510-420-3339	FAX: 510-420-9170	EMAIL: sdalio@cambria-env.com		LAB USE ONLY	

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - INVOICED REPORT FORMAT LIST AGENCY

GCMS MTRBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EXP IS NOT NEEDED

cc: lab report to sdalio@cambria-env

Be sure that Field Point names are correct. See field notes

Any questions please call 510-420-3339

REQUESTED ANALYSIS

EXP. USE ONLY	Field Sample Identification				RD. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	HTEX	MTRBE	BBA	S Oxygenates	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8260B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	LUFTS <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	CAMP7 <input type="checkbox"/> Total <input type="checkbox"/> SLC <input type="checkbox"/> TSP	Text for Disposal	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
	DATE	TIME	MATRIX	NO. OF CONT.																		
	SB-14-20'	6/24	1130	Soil	1	X		X	X													
	SB-14-25'		1140		1	X		X	X													<p>Hold SB-14-25'</p> <p>also include 2 from pg 1 loc!</p> <p>SB-14</p>
	SB-14-30'		1150		1	X		X	X													
	SB-14-35'		1200		1	X		X	X													
	SB-14-39.5'		1205		1	X		X	X													
	SB-14-W		1145	W	3	X		X	X	X	X	X	X	X	X	X	X	X	X	X		
	SB-14-24'		1141	Soil	1	X		X	X													
	SB-11-10'		1100		1	X		X	X													<p>SB-11</p>
	SB-11-15'		1105		1	X		X	X													
	SB-11-20'		1120		1	X		X	X													

Requested by (Signature): <i>[Signature]</i>	Received by (Signature): Cambria Environmental, safe location, Stewart Dalio/ sample refrigerator	Date: 6/27/03	Time: 4:00
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6-27-03	Time: 1426
Requested by (Signature): <i>[Signature]</i>	Received by (Signature): Deanne Harrington / STL-SF	Date: 6-27-03	Time: 1610

CRIMP INDUSTRIES (925) 484-1096

Cambria Environmental Emeryville

July 10, 2003

5900 Hollis Street, Ste. A
Emeryville, CA 94608

Attn.: Stu Dalie

Project#: 245-0612-007

Project: 98996068

Site: 1784 150th St., San Leandro

Dear Mr. Dalie:

Attached is our report for your samples received on 06/27/2003 14:20


This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/11/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: tgranicher@stl-inc.com

Sincerely,



Tod Granicher
Project Manager

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-15-W	06/26/2003 09:50	Water	8

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/10/2003 15:48

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007

98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-15-W	Lab ID:	2003-06-0883 - 8
Sampled:	06/26/2003 09:50	Extracted:	7/5/2003 17:32
Matrix:	Water	QC Batch#:	2003/07/05-1d.65
Analysis Flag: o (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	6800	2500	ug/L	50.00	07/05/2003 17:32	
Benzene	530	25	ug/L	50.00	07/05/2003 17:32	
Toluene	ND	25	ug/L	50.00	07/05/2003 17:32	
Ethylbenzene	380	25	ug/L	50.00	07/05/2003 17:32	
Total xylenes	560	50	ug/L	50.00	07/05/2003 17:32	
tert-Butyl alcohol (TBA)	ND	250	ug/L	50.00	07/05/2003 17:32	
Methyl tert-butyl ether (MTBE)	40	25	ug/L	50.00	07/05/2003 17:32	
Di-isopropyl Ether (DIPE)	ND	100	ug/L	50.00	07/05/2003 17:32	
Ethyl tert-butyl ether (ETBE)	ND	100	ug/L	50.00	07/05/2003 17:32	
tert-Amyl methyl ether (TAME)	ND	100	ug/L	50.00	07/05/2003 17:32	
1,2-DCA	ND	25	ug/L	50.00	07/05/2003 17:32	
EDB	ND	25	ug/L	50.00	07/05/2003 17:32	
Ethanol	ND	2500	ug/L	50.00	07/05/2003 17:32	
Surrogates(s)						
1,2-Dichloroethane-d4	94.1	76-130	%	50.00	07/05/2003 17:32	
Toluene-d8	99.5	78-115	%	50.00	07/05/2003 17:32	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/10/2003 15:48

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report		
Prep(s): 5030B		Test(s): 8260FAB
Method Blank	Water	QC Batch # 2003/07/05-1d.65
MB: 2003/07/05-1d.65-027		Date Extracted: 07/05/2003 10:27

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	07/05/2003 10:27	
tert-Butyl alcohol (TBA)	ND	5.0	ug/L	07/05/2003 10:27	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	07/05/2003 10:27	
Di-isopropyl Ether (DIPE)	ND	2.0	ug/L	07/05/2003 10:27	
Ethyl tert-butyl ether (ETBE)	ND	2.0	ug/L	07/05/2003 10:27	
tert-Amyl methyl ether (TAME)	ND	2.0	ug/L	07/05/2003 10:27	
1,2-DCA	ND	0.5	ug/L	07/05/2003 10:27	
EDB	ND	0.5	ug/L	07/05/2003 10:27	
Benzene	ND	0.5	ug/L	07/05/2003 10:27	
Toluene	ND	0.5	ug/L	07/05/2003 10:27	
Ethylbenzene	ND	0.5	ug/L	07/05/2003 10:27	
Total xylenes	ND	1.0	ug/L	07/05/2003 10:27	
Ethanol	ND	50	ug/L	07/05/2003 10:27	
Surrogates(s)					
1,2-Dichloroethane-d4	87.6	76-130	%	07/05/2003 10:27	
Toluene-d8	98.5	78-115	%	07/05/2003 10:27	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: Stu Dalie

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Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Water			QC Batch # 2003/07/05-1d.65			
LCS	2003/07/05-1d.65-043		Extracted: 07/05/2003			Analyzed: 07/05/2003 09:43				
LCSD	2003/07/05-1d.65-005		Extracted: 07/05/2003			Analyzed: 07/05/2003 10:05				
Compound	Conc. ug/L		Exp. Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	20.1	19.5	25	80.4	78.0	3.0	65-165	20		
Benzene	23.4	25.9	25	93.6	103.6	10.1	69-129	20		
Toluene	23.3	24.5	25	93.2	98.0	5.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	449	440	500	89.8	88.0		76-130			
Toluene-d8	495	498	500	99.0	99.6		78-115			

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

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Project: 245-0612-007

98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-15-10`	06/26/2003 09:15	Soil	1
SB-15-15`	06/26/2003 09:25	Soil	2
SB-15-20`	06/26/2003 09:30	Soil	3
SB-15-22.5`	06/26/2003 09:35	Soil	4
SB-15-35`	06/26/2003	Soil	7

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/10/2003 16:27

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-15-10	Lab ID:	2003-06-0883 - 1
Sampled:	06/26/2003 09:15	Extracted:	7/2/2003 13:16
Matrix:	Soil	QC Batch#:	2003/07/02-2c.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 13:16	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 13:16	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 13:16	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 13:16	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 13:16	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 13:16	
Surrogates(s)						
1,2-Dichloroethane-d4	102.9	70-121	%	1.00	07/02/2003 13:16	
Toluene-d8	99.9	81-117	%	1.00	07/02/2003 13:16	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

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07/10/2003 16:27

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007

98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-15-15	Lab ID:	2003-06-0883 - 2
Sampled:	06/26/2003 09:25	Extracted:	7/2/2003 13:38
Matrix:	Soil	QC Batch#:	2003/07/02-2c.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 13:38	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 13:38	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 13:38	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 13:38	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 13:38	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 13:38	
Surrogates(s)						
1,2-Dichloroethane-d4	107.0	70-121	%	1.00	07/02/2003 13:38	
Toluene-d8	97.0	81-117	%	1.00	07/02/2003 13:38	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-15-20*	Lab ID:	2003-06-0883 - 3
Sampled:	06/26/2003 09:30	Extracted:	7/2/2003 14:00
Matrix:	Soil	QC Batch#:	2003/07/02-2c.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 14:00	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 14:00	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 14:00	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 14:00	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 14:00	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 14:00	
Surrogates(s)						
1,2-Dichloroethane-d4	101.5	70-121	%	1.00	07/02/2003 14:00	
Toluene-d8	97.2	81-117	%	1.00	07/02/2003 14:00	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/10/2003 16:27

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville
Attn.: Stu Dalie

5900 Hollis Street, Ste. A
Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-15-22.5	Lab ID:	2003-06-0883 - 4
Sampled:	06/26/2003 09:35	Extracted:	7/2/2003 14:22
Matrix:	Soil	GC Batch#:	2003/07/02-2c.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	07/02/2003 14:22	
Benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 14:22	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 14:22	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	07/02/2003 14:22	
Total xylenes	ND	0.0050	mg/Kg	1.00	07/02/2003 14:22	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 14:22	
Surrogates(s)						
1,2-Dichloroethane-d4	99.8	70-121	%	1.00	07/02/2003 14:22	
Toluene-d8	97.2	81-117	%	1.00	07/02/2003 14:22	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260FAB
Sample ID:	SB-15-35	Lab ID:	2003-06-0883-7
Sampled:	06/26/2003	Extracted:	7/2/2003 18:31
Matrix:	Soil	QC Batch#:	2003/07/02-2c.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1.4	1.0	mg/Kg	1.00	07/02/2003 18:31	
Benzene	0.10	0.0050	mg/Kg	1.00	07/02/2003 18:31	
Toluene	ND	0.0050	mg/Kg	1.00	07/02/2003 18:31	
Ethyl benzene	0.030	0.0050	mg/Kg	1.00	07/02/2003 18:31	
Total xylenes	0.0055	0.0050	mg/Kg	1.00	07/02/2003 18:31	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	07/02/2003 18:31	
Surrogates(s)						
1,2-Dichloroethane-d4	99.5	70-121	%	1.00	07/02/2003 18:31	
Toluene-d8	98.3	81-117	%	1.00	07/02/2003 18:31	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/10/2003 16:27

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Stu Dalie

5900 Hollis Street, Ste. A

Emeryville, CA 94608

Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007

98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report					
Prep(s): 5030B				Test(s): 8260FAB	
Method Blank		Soil		QC Batch # 2003/07/02-2c.62	
MB: 2003/07/02-2c.62-039				Date Extracted: 07/02/2003 10:39	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	ug/Kg	07/02/2003 10:39	
Methyl tert-butyl ether (MTBE)	ND	0.0050	ug/Kg	07/02/2003 10:39	
Benzene	ND	0.0050	ug/Kg	07/02/2003 10:39	
Toluene	ND	0.0050	ug/Kg	07/02/2003 10:39	
Ethyl benzene	ND	0.0050	ug/Kg	07/02/2003 10:39	
Total xylenes	ND	0.0050	ug/Kg	07/02/2003 10:39	
Surrogates(s)					
1,2-Dichloroethane-d4	99.7	70-121	%	07/02/2003 10:39	
Toluene-d8	95.5	81-117	%	07/02/2003 10:39	

Gas/BTEX Fuel Oxygenates by 8260B (C6-C12)

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Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report										
Prep(s): 5030B						Test(s): 8260FAB				
Laboratory Control Spike				Soil			QC Batch # 2003/07/02-2c.62			
LCS	2003/07/02-2c.62-055			Extracted: 07/02/2003			Analyzed: 07/02/2003 09:55			
LCSD	2003/07/02-2c.62-017			Extracted: 07/02/2003			Analyzed: 07/02/2003 10:17			
Compound	Conc. ug/Kg		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	57.2	59.7	50	114.4	119.4	4.3	65-165	20		
Benzene	53.0	50.1	50	106.0	100.2	5.6	69-129	20		
Toluene	50.3	48.6	50	100.6	97.2	3.4	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	489	509	500	97.8	101.8		70-121			
Toluene-d8	505	490	500	101.0	98.0		81-117			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

07/10/2003 16:27

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

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Emeryville, CA 94608

Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
SB-15-25'	06/26/2003 09:45	Soil	5
SB-15-30'	06/26/2003 10:00	Soil	6

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville
Attn.: Stu Dalie

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Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s):	5030B	Test(s):	8260B
Sample ID:	SB-15-25	Lab ID:	2003-06-0883 - 5
Sampled:	06/26/2003 09:45	Extracted:	7/5/2003 12:27
Matrix:	Soil	QC Batch#:	2003/07/05-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	120	50	mg/Kg	1.00	07/05/2003 12:27	
Benzene	ND	0.50	mg/Kg	1.00	07/05/2003 12:27	
Toluene	ND	0.50	mg/Kg	1.00	07/05/2003 12:27	
Ethyl benzene	ND	0.50	mg/Kg	1.00	07/05/2003 12:27	
Total xylenes	ND	0.50	mg/Kg	1.00	07/05/2003 12:27	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	07/05/2003 12:27	
Surrogates(s)						
1,2-Dichloroethane-d4	76.9	76-130	%	1.00	07/05/2003 12:27	
Toluene-d8	88.8	78-115	%	1.00	07/05/2003 12:27	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Prep(s): 5030B	Test(s): 8260B
Sample ID: SB-15-30	Lab ID: 2003-06-0883 - 6
Sampled: 06/26/2003 10:00	Extracted: 7/5/2003 12:50
Matrix: Soil	QC Batch#: 2003/07/05-02.62

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	170	50	mg/Kg	1.00	07/05/2003 12:50	
Benzene	ND	0.50	mg/Kg	1.00	07/05/2003 12:50	
Toluene	ND	0.50	mg/Kg	1.00	07/05/2003 12:50	
Ethyl benzene	1.3	0.50	mg/Kg	1.00	07/05/2003 12:50	
Total xylenes	2.1	0.50	mg/Kg	1.00	07/05/2003 12:50	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	1.00	07/05/2003 12:50	
Surrogates(s)						
1,2-Dichloroethane-d4	82.7	76-130	%	1.00	07/05/2003 12:50	
Toluene-d8	100.8	78-115	%	1.00	07/05/2003 12:50	

Gas/BTEXFuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report					
Prep(s): 5030B				Test(s): 8260B	
Method Blank		Soil		QC Batch # 2003/07/05-02.62	
MB: 2003/07/05-02.62-043				Date Extracted: 07/05/2003 11:43	

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	mg/Kg	07/05/2003 11:43	
Benzene	ND	0.50	mg/Kg	07/05/2003 11:43	
Toluene	ND	0.50	mg/Kg	07/05/2003 11:43	
Ethyl benzene	ND	0.50	mg/Kg	07/05/2003 11:43	
Total xylenes	ND	0.50	mg/Kg	07/05/2003 11:43	
Methyl tert-butyl ether (MTBE)	ND	0.50	mg/Kg	07/05/2003 11:43	
Surrogates(s)					
1,2-Dichloroethane-d4	89.2	76-130	%	07/05/2003 11:43	
Toluene-d8	99.1	78-115	%	07/05/2003 11:43	

Gas/BTEX Fuel Oxygenates by 8260B (High Level)

Cambria Environmental Emeryville

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Emeryville, CA 94608
Phone: (510) 420-0700 Fax: (510) 420-9170

Project: 245-0612-007
98996068

Received: 06/27/2003 14:20

Site: 1784 150th St., San Leandro

Batch QC Report

Prep(s): 5030B

Test(s): 8260B

Laboratory Control Spike

Soil

QC Batch # 2003/07/05-02.62

LCS 2003/07/05-02.62-058

Extracted: 07/05/2003

Analyzed: 07/05/2003 10:58

LCSD 2003/07/05-02.62-020

Extracted: 07/05/2003

Analyzed: 07/05/2003 11:20

Compound	Conc. mg/Kg		Exp. Conc.	Recovery %		RPD	Ctrl. Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Benzene	10800	10500	10000	108.0	105.0	2.8	69-129	20		
Toluene	11200	10300	10000	112.0	103.0	8.4	70-130	20		
Methyl tert-butyl ether (MTBE)	10600	10200	10000	106.0	102.0	3.8	65-165	20		
Surrogates(s)										
1,2-Dichloroethane-d4	232	222	250	92.8	88.8		76-130			
Toluene-d8	270	260	250	108.0	104.0		78-115			

SHELL Chain Of Custody Record

STL-San Francisco

1220 Quarry Lane
Pleasanton, CA 94566

(925) 484-1919 (925) 484-1096 fax

Shell Project Manager to be invoiced:

SCIENCE & ENGINEERING
 TECHNICAL SERVICES
 CRMT HOUSTON

Karen Petrysa

2003-06-0883

INCIDENT NUMBER (S&E ONLY)

9 8 9 9 6 0 6 8

SAP by CRMT NUMBER (TS/CRMT)

1 3 6 0 1 9

DATE: 6/26/03

PAGE: 1 of 1

87554

SAMPLING COMPANY: Cambria Environmental	DRUG CODE:	SITE ADDRESS (STREET AND CITY): 1701 150th St #3a 2204 El Camino Real, Menlo Park, CA	GENERAL ID NO.: T0600101230
ADDRESS: 5900 Hollis Street, Suite A, Emeryville, CA 94608	EST DELIVERABLE TO (Responsible Party or Thirdparty):	PHONE NO.: 510-420-3339	CONSULTANT PROJECT NO.: 245-0612-007
PROJECT CONTACT (Includer or POC Reporter): Stu Delle	EMAIL: shell@aklandedf@cambria-env.com		EMAIL: sdalle@cambria-env.com
TELEPHONE: 510-420-3338	FAX: 510-420-9170	EMAIL: sdalle@cambria-env.com	

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

LA - RWQCB REPORT FORMAT USE AGENCY:

GC/MS/MTBE CONFIRMATION: HIGHEST HIGHEST per BORING ALL

SPECIAL INSTRUCTIONS OR NOTES: CHECK BOX IF EDO IS NOT NEEDED

cc: lab report to sdalle@cambria-env

Any questions please call 510-420-3339

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification		SAMPLING		MATRIX	NO. OF CONT.	TPH - Purgeable	TPH - Extractable (8015m)	BTEX	MTBE	TBA	1,2 DCA and EDB	Ethanol	Methanol	VOCs by 8250B	Semi-Volatiles by 8270C	Lead <input type="checkbox"/> Total <input type="checkbox"/> ATC <input type="checkbox"/> TSP	LUFS <input type="checkbox"/> Total <input type="checkbox"/> ATC <input type="checkbox"/> TSP	CAMS7 <input type="checkbox"/> Total <input type="checkbox"/> ATC <input type="checkbox"/> TSP	FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes	
			DATE	TIME																	
	SB-15-10'		6/26/03	9:55	Soil	1	X	X	X												} SB-15
	SB-15-15'			9:25		1	X	X	X												
	SB-15-20'			9:30		1	X	X	X												
	SB-15-22.5'			9:35		1	X	X	X												
	SB-15-25'			9:45		1	X	X	X												
	SB-15-30'			10:00		1	X	X	X												
	SB-15-35'					1	X	X	X												
	SB-15-W			9:00	Chg 3 WBA	3	X	X	X	X	X	X	X	X							

Released by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6/26/03	Time: 4:00
Released by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6-27-03	Time: 1920
Released by (Signature): <i>[Signature]</i>	Received by (Signature): <i>[Signature]</i>	Date: 6-27-03	Time: 1630 1610