July 2, 2004

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

Subject:

Shell-branded Service Station

230 West MacArthur Boulevard

Oakland, California

Dear Mr. Hwang:

Attached for your review and comment is a copy of the Subsurface Investigation Report 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

Sr. Environmental Engineer

Karen Petryna

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

Re: Subsurface Investigation Report

Shell-branded Service Station 230 West MacArthur Boulevard Oakland, California Incident #98995741 Cambria Project #246-0902-007



Dear Mr. Hwang:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this Subsurface Investigation Report of sampling activities conducted March 24, 2004, as outlined in Cambria's October 31, 2002 Sensitive Receptor Survey, Conduit Study Report, and Subsurface Investigation Work Plan. The investigation was conducted in response to the findings of the report, and to assess whether hydrocarbons and methyl tertiary butyl ether (MTBE) in groundwater have impacted off-site soil and groundwater. After waiting over 60 days for a written approval of the work plan from the Alameda County Health Care Services Agency (ACHCSA), Cambria completed the proposed soil borings. The soil borings could not be advanced in the locations in the street as originally proposed in the work plan due to the presence of subsurface utilities, so the borings were advanced in the sidewalk instead. Presented below are summaries of the site background, investigation procedures, investigation results, and conclusions.

SITE BACKGROUND

Site Location: This operating Shell-branded service station is located at the northwest corner of West MacArthur Boulevard and Piedmont Avenue in Oakland, California (Figures 1 and 2). There are currently three underground storage tanks (USTs) on site. The site is surrounded by commercial properties. A former Gulf service station, later a Vogue Tyres store and currently an auto repair shop, is located immediately northwest of the site.

Cambria Environmental Technology, Inc.

5900 Hollis Street Suite A Emeryville, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

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1986 Site Investigation: In April 1986, Emcon Associates of San Jose, California drilled four exploratory borings (S-A through S-D) within the tank complex to a total depth of 20.5 feet below grade (fbg). Groundwater was encountered at approximately 13 fbg. Soil sampling results indicated that hydrocarbon concentrations ranged from 1,200 to 5,700 parts per million (ppm) at depths of 8 to 15 fbg.

1986 Additional Site Assessment: In December 1986, W.W. Irwin, Inc. analyzed soil gas vapors from 38 probe holes located throughout the entire site. The highest hydrocarbon concentrations were reportedly discovered in the area of the tank complex and dispenser islands. The report for this investigation could not be located at this time.



1987 Recovery Well Installation: In March 1987, Wayne Perry Construction, Inc. (Wayne Perry) installed three 4-inch-diameter, 13-feet-deep, soil-vapor recovery wells (VR-1, VR-2, and VR-3). The soil venting system utilized an activated carbon scrubber that operated between April and November 1987. On August 28, 1987, soil borings B-1 and B-2 were installed to determine the degree of contamination remaining in the soil. The maximum total hydrocarbon concentration, 1870 ppm, was detected in boring B-1 at a depth of 8 fbg. Wayne Perry concluded that prolonged venting reduced hydrocarbon concentrations. However, once the venting system stopped, hydrocarbon concentrations in soil vapor increased. Wayne Perry's January 26, 1988 Review of Venting Operations documents these activities.

1987 UST Removal: On November 2, 1987, the USTs were removed and soil samples (A1, A-2, B-1, B-2, C-1, C-2, D-1, D-2) were collected in native soil from the bottom of the 15-foot deep UST excavation and soil stockpile. Hydrocarbon concentrations ranged from 8.6 to 480 ppm, as documented in Kaprealian Associates December 1, 1987 Soil Sampling Investigation report. New USTs were installed in the same excavation.

1988 Soil and Groundwater Investigation: On July 11 and 12, 1988, Ensco Environmental Services Inc. (Ensco) of Fremont, California drilled three exploratory borings at the site and converted them to monitoring wells MW-1 through MW-3. MW-1 was completed to 31.5 fbg, and MW-2 and MW-3 were completed to 30 fbg. Total petroleum hydrocarbons as gasoline (TPHg) was only detected in MW-3 at 20.5 fbg at a concentration of 278 ppm. Benzene was not detected in any soil samples collected during this investigation. Ensco's September 30, 1988, Soil and Groundwater Investigation report documents this investigation's results.

1989 Phase II Supplemental Soil Investigation: On August 16, 1989, Ensco advanced three soil borings (SB-1, SB-2, and SB-3) to investigate possible hydrocarbon impacts to soil adjacent to the pump islands. The maximum TPHg concentration was 490 ppm in boring SB-3 at a depth of 15.5 fbg. Benzene was not detected in any soil samples collected during this investigation. Investigation results were documented in Ensco's October 9, 1989 September Quarterly Report.

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1989 Phase II Shallow Groundwater Survey: On October 10, 1989, Ensco subcontractor NET Pacific of Santa Rosa, California advanced three probes (GS-1, GS-2, and GS-3) to sample the shallow groundwater adjacent to the pump islands. TPHg was detected in samples GS-2 and GS-3 at concentrations of 5,600 parts per billion (ppb) and 8,800 ppb, respectively. Benzene was detected in samples GS-2 and GS-3 at concentrations of 340 ppb and 380 ppb, respectively. TPHg and benzene, toluene, ethylbenzene, or total xylenes (BTEX) were not detected in sample GS-1. Ensco's January 19, 1990, December Quarterly Report documents investigation results.

1990 Well Installation: On January 9,1990, Ensco drilled one exploratory boring at the site and converted it to monitoring well MW-4. Well MW-4 was screened from 25 to 15 fbg. Ensco's March 29, 1990 March Ouarterly Report documented the well installation activities.

1990 Shallow Groundwater Investigation: On May 19, 1990, Exceltech subcontractor CHIPS Environmental Consulting, Inc. advanced six probes (Probe 1 through Probe 6) in the sidewalk along MacArthur Boulevard and collected shallow groundwater samples. TPHg was detected in Probe 2 and Probe 6 at concentrations of 25,000 ppb and 31,000 ppb, respectively. Benzene was detected in concentrations up to 430 ppb (in Probe 6). Investigation results were documented in Exceltech's July 3, 1990 June Quarterly Report.

1998 Dispenser/Turbine Sump Upgrades: In February 1998, Paradiso Mechanical of San Leandro, California upgraded fuel-related equipment at the service station. Secondary containment was added to the existing dispensers and to the turbine sumps above the USTs. Cambria inspected the dispenser and tank pit areas. Based on Cambria's February 3, 1998 telephone conversation with Leroy Griffin, the City of Oakland did not require sampling at dispensers during 1998 upgrade projects unless there was evidence of hydrocarbons. No field indications of hydrocarbons, such as staining or odor, were observed during the site visit. Therefore, no sampling was required at that time.

Work Plan: Cambria completed a joint conduit study and SRS for the site, which was included in our October 31, 2002 Sensitive Receptor Survey, Conduit Study Report, and Subsurface Investigation Work Plan. The findings of the conduit study showed that a storm drain located just west of the site, along West MacArthur Boulevard, might intersect groundwater and that the conduit backfill material may act as a preferential pathway for contaminant migration. The SRS showed two wells of unknown use located approximately ½-mile downgradient of the site, and one well of unknown use located approximately 1,500 feet upgradient of the site. Neither of these wells is likely to be impacted by petroleum hydrocarbons or fuel oxygenates originating from the subject site. Additionally, Cambria found that the nearest surface water body is Glen Echo Creek, located approximately 600 feet south of the site. Since calculated groundwater flow direction at the site has been to the west-southwest, petroleum hydrocarbons and fuel oxygenates



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from the site are not expected to impact Glen Echo Creek. In this report, Cambria included an investigation work plan to advance two soil borings adjacent to the storm drain to evaluate the migration of any contaminates off site.

2003 SRS: In October 2003, Cambria completed an SRS at Shell's request. The SRS targeted the following as potential sensitive receptors: basements within 200 feet, surface water and sensitive habitats within 500 feet, hospitals, residential care and childcare facilities within 1,000 feet, and water wells within ½ mile. No basements were observed within 200 feet, nor were any surface water or sensitive habitats observed within 500 feet. Hospitals and educational, childcare and residential care facilities were identified at approximately 150, 450, and 825 feet from the site. Snow White Day Care (214 West MacArthur Boulevard) is located approximately 150 feet from the site. Kaiser Permanente Hospital (280 West MacArthur Boulevard) is located approximately 450 feet from the site. National Hispanic University (262 Grand Avenue) is located approximately 825 feet from the site.

No water wells in addition to those mentioned above were identified within ½ mile of the site.

Groundwater Monitoring: Blaine Tech Services, Inc. of San Jose, California has performed quarterly groundwater monitoring at the site since July 1988. Depth to water has ranged historically between 11.03 and 19.59 fbg. Historical groundwater elevations in site wells have ranged between 55.09 and 65.31 feet above mean sea level (msl). During the first quarter of 2004 monitoring and sampling event, the depth to water in the wells ranged from 12.04 to 13.78 fbg, and the groundwater elevations ranged from 62.20 to 65.31 feet above msl. The groundwater flow direction, as calculated from depth to water measurements in on-site monitoring wells, is typically toward the west to southwest, but has occasionally ranged to the northwest.

During the fourth quarter of 2003, coordinated monitoring and sampling began with the adjacent former gas station (currently Oakland Auto Works) at 240 West MacArthur Boulevard.

INVESTIGATION PROCEDURES

As proposed in Cambria's October 31, 2002 Sensitive Receptor Survey, Conduit Study Report, and Subsurface Investigation Work Plan, two soil borings were advanced to 20 fbg, adjacent to the storm drain located just west of the site (Figure 2). However, due to the presence of subsurface utilities, the borings could not be advanced in the locations in the street as proposed in the work plan. The borings were advanced in the sidewalk instead. The borings were advanced by direct-push using a Geoprobe® drill rig and were continuously logged for lithologic description to the total depth explored. Soil samples were collected for chemical analysis at



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5-foot intervals and at the depth of first-encountered groundwater. Additionally, one grab groundwater sample was collected from each boring for chemical analysis.

The procedures for this subsurface investigation, described in Cambria's proposed work plan, are summarized below. Analytical results for soil and groundwater are summarized in Tables 1 and 2, respectively, and laboratory analytical reports are presented as Attachment A. The drilling permits and boring logs are presented as Attachments B and C, respectively. Soil disposal confirmation and Cambria's standard field procedures for Geoprobe® soil sampling are presented in Attachments D and E, respectively.



Personnel Present: Stewart A. Dalie IV, Staff Scientist, of Cambria

Don Pearson, of Gregg Drilling and Testing Inc. (Gregg) of

Martinez, California

Sergio Yruel, of Cruz Brothers Utility Locating Services Inc., of

Scotts Valley, California

Permits: Alameda County Public Works soil borings permit #W04-0256

and City of Oakland excavation permit #X0200345

(Attachment B).

Drilling Company: Gregg (C-57 License # 485-165)

Drilling Dates: March 24, 2004

Drilling Method: Direct-push Geoprobe® drill rig

Number of Borings: Two borings: SB-1 and SB-2 (Figure 2)

Boring Depths: Soil borings SB-1 and SB-2 were advanced to a depth of 20 fbg

(Attachment C).

Sediment Lithology: Soils beneath the site consist primarily of interbedded silts,

clays, sands and gravels to the total explored depth of 20 fbg.

Groundwater Depths: Groundwater was first encountered in the borings at 17 fbg.

Water levels in both borings almost instantaneously rose above the first-encountered water level to approximately 12.5 fbg in boring SB-1 and 10.7 fbg in boring SB-2. Water samples from borings SB-1 and SB-2 were collected with a stainless steel

bailer and Teflon string through the open borehole. The bailer

was decontaminated between each boring location.

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Chemical Analyses:

State-approved laboratory Severn Trent Laboratories Inc. of Pleasanton, California analyzed soil and grab groundwater samples from the borings for TPHg, MTBE, and BTEX by EPA Method 8260B.

Soil Stockpile Analysis:

To characterize stockpiled soil for disposal, four brass tubes of soil were collected from the stockpiled soil and then composited by the analytical laboratory. The composite sample was analyzed for TPHg and BTEX by modified EPA Method 8260 and for total threshold limit concentration lead.



Backfill Method:

The borings were backfilled via tremie-pipe method with cement

grout to match the existing grade.

Soil Handling:

Soil cuttings produced from the borings were stockpiled at the former Shell-branded site. The cuttings were transported to Forward Landfill in Manteca, California for disposal on April 8, 2004. The disposal confirmation report is included as

Attachment D.

INVESTIGATION RESULTS

Analytical Results for Soil Sampling: MTBE was detected in only two soil samples, (SB-1-15'and SB-2-17') at concentrations of 0.0078 ppm and 0.0099 ppm, respectively. TPHg was detected in only three soil samples (SB-1-17' SB-1-19.5', and SB-2-19.5') at concentrations of 12 ppm, 43 ppm, and 10 ppm, respectively. All soil samples with detectable TPHg and/or MTBE concentrations were from saturated soils or from within the capillary fringe. The laboratory report noted that the hydrocarbons reported in the gasoline range did not match the laboratory's gasoline standard. BTEX was not detected in any soil sample collected during this investigation. Soil sampling results are summarized in Table 1, and certified laboratory analytical results are included as Attachment A.

Analytical Results for Grab Groundwater Sampling: MTBE was detected in both grab groundwater samples SB-1-W, and SB-2-W at concentrations of 110 ppb and 320 ppb, respectively. TPHg was detected in both grab groundwater samples SB-1-W, and SB-2-W at concentrations of 10,000 ppb and 520 ppb, respectively. Benzene was detected in both grab groundwater samples SB-1-W, and SB-2-W at concentrations of 430 ppb and 4.9 ppb, respectively. Toluene, ethylbenzene, and total xylenes were detected only in grab groundwater

sample SB-1-W at concentrations of 75 ppb, 98 ppb, and 44 ppb, respectively. Grab groundwater sampling results are summarized in Table 2, and certified laboratory analytical results are included in Attachment A.

CONCLUSIONS



Because groundwater was encountered at approximately 17 fbg during the current investigation, the soil samples that contained detectable TPHg and/or MTBE concentrations were from saturated soils or from within the capillary fringe, so results are likely indicative of chemical concentrations in groundwater rather than in soil.

The results of this investigation and of quarterly monitoring and sampling indicate that the highest TPHg and MTBE concentrations in groundwater are localized near the western corner of the Shell site. Groundwater concentrations of MTBE appear to be decreasing with distance from the Shell site.

Cambria will continue coordinated quarterly monitoring and sampling of all wells during 2004 to capture any variations in the groundwater flow direction and to monitor petroleum hydrocarbon and fuel oxygenate concentrations in groundwater.

CLOSING

Please call Caryl Weekley at (510) 420-3324 if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc.

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Caryl A. Weekley, R.G. Senior Project Geologist

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

Figures:

1 - Vicinity/Area Well Survey Map

2 - Soil Boring Location Map

Tables:

1 - Historical Soil Analytical Data

2 - Historical Grab Groundwater Analytical Data

Attachments:

A - Certified Laboratory Analytical Reports

B - Permits

C - Boring logs

D - Soil Disposal Confirmation Report

E - Standard Field Procedures for Geoprobe® Soil Sampling

cc:

Karen Petryna, Shell Oil Products US, 20945 Wilmington, Carson CA 90810

Bruce Ruttger, Stellar Environmental Solutions, 2198 6th Street, Berkeley, CA 94710

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Shell-branded Service Station

230 West MacArthur Boulevard Oakland, California Incident #98995741



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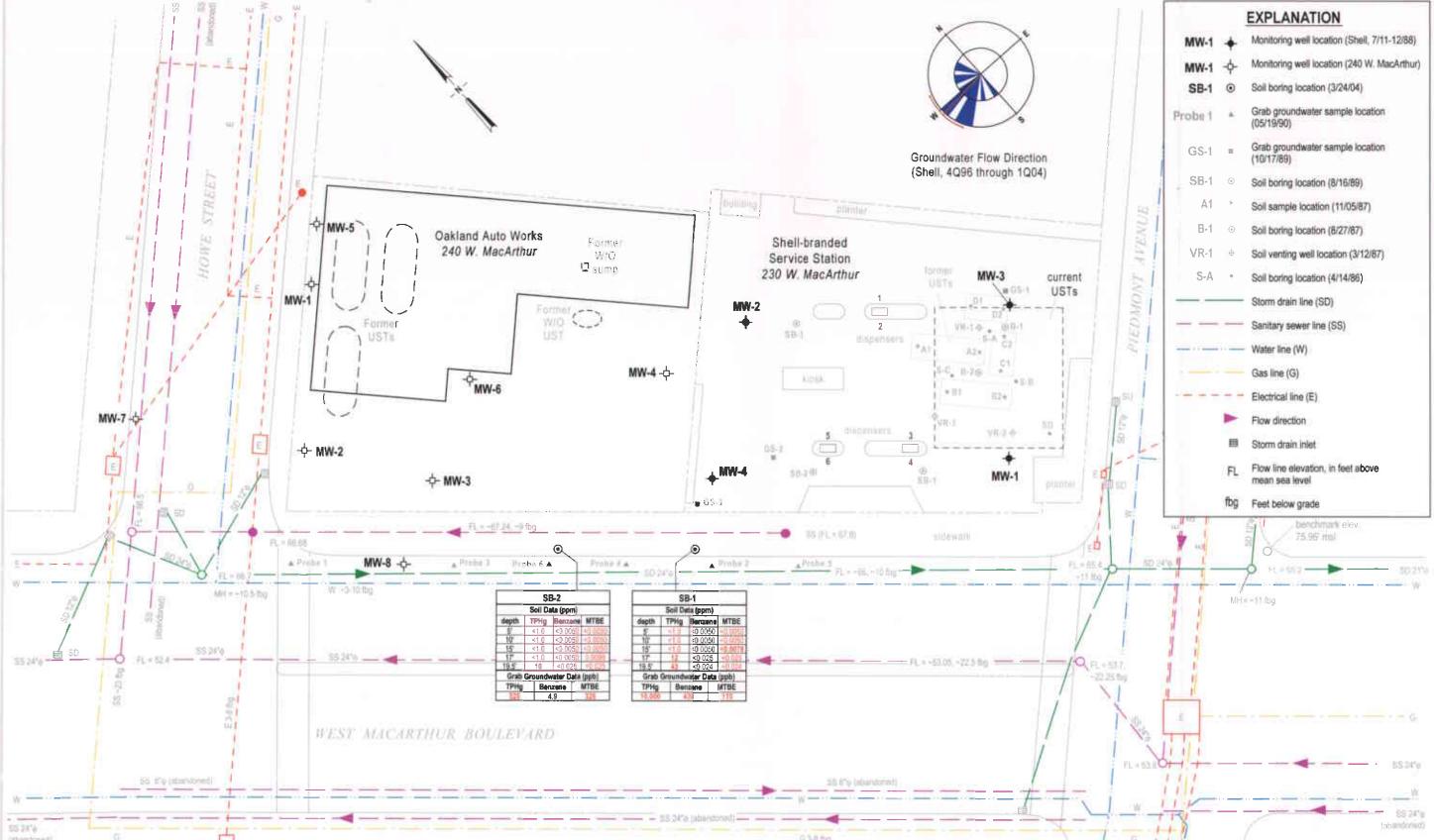
Vicinity/Area Well Survey Map

(1/2-Mile Radius)



Shell-branded Service Station 230 West MacArthur Boulevard Oakland, California Incident #98995741

FIGURE



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235 W. MacArthur

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Table 1. Historic Soil Analytical Data - Shell-branded Service Station - Incident # 98995741, 230 W. MacArthur Boulevard, Oakland, California

							Total			Organic
Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead	Lead
		(feet)	(ppm)							
S-A	4/14/1986	4 - 5.5	17 ^a							
S-A	4/14/1986	8.5 - 10	1,200 ^a							
S-A	4/14/1986	11 - 12.5	4,300 ^a							
S-A	4/14/1986	13.5 - 15	ND ^a							
S-B	4/14/1986	5 - 6.5	36 ^a							
S-B	4/14/1986	8 - 9.5	78 ^a						di 100 AF	
S-B	4/14/1986	12 - 13	6.4 ^a						11.0 ^b	
S-C	4/14/1986	4 - 5.5	ND ^a							
S-C	4/14/1986	7 - 8.5	ND^{a}							
S-C	4/14/1986	11 - 12.5	$\mathrm{ND}^{\mathbf{a}}$							
S-C	4/14/1986	13.5 - 15	5700 ^a							
S-D	4/14/1986	Composite	571 ^a							
B-1 @ 4'	8/28/1987	4	412	<0.05	<0.05	<0.1	5.4		65.9 ^d	
B-1 @ 6'	8/28/1987	6	1,440	< 0.05	< 0.05	< 0.1	130		26.4 ^d	
B-1 @ 8'	8/28/1987	8	1,870	< 0.05	4.3	14	325		14.3 ^d	
B-1 @ 10'	8/28/1987	10	<10	<0.05	< 0.05	< 0.1	<0.1		<5 ^d	
B-1 @ 12'	8/28/1987	12	122	0.60	0.36	0.38	0.33		<5 ^d	
B-1 @ 14'	8/28/1987	14	52	< 0.05	< 0.05	<0.1	< 0.1		<5 ^d	

Table 1. Historic Soil Analytical Data - Shell-branded Service Station - Incident # 98995741, 230 W. MacArthur Boulevard, Oakland, California

							Total			Organie
Sample ID	Date	Depth (feet)	TPHg ←	Benzene	Toluene	Ethylbenzene (ppm	Xylenes	MTBE	Lead	Lead
		,								
B-2 @ 5'	8/28/1987	5	<10	< 0.05	1.5	5.7	< 0.1		<5 ^d	
B-2 @ 6-7'	8/28/1987	6 - 7	<10	< 0.05	0.37	0.55	< 0.1		<5 ^d	
B-2 @ 8-9'	8/28/1987	8 - 9	<10	0.5	0.4	0.3	< 0.1		<5 ^d	
B-2 @ 10'	8/28/1987	10	<10	< 0.05	< 0.05	< 0.1	< 0.1		<5 ^d	
B-2 @ 12'	8/28/1987	12	<10	<0.05	<0.05	<0.1	<0.1		<5 ^d	
A 1	11/2/1987	15.0	380	1.6	2.2		55			
A2	11/2/1987	15.0	310	1.3	1.3		33			
B1	11/2/1987	15.0	480	4.3	0.5		22			
B2	11/2/1987	15.0	9.1	1.6	0.3		0.1	++-		
C1	11/2/1987	15.0	12	1.5	< 0.1		1.1			
C2	11/2/1987	15.0	170	4.1	< 0.1		2.4		***	***
D1	11/2/1987	15.0	8.6	< 0.1	< 0.1		< 0.1			
D2	11/2/1987	15.0	44	< 0.1	<0.1		5.3			
MW1-2	7/11/1988	10	<10	< 0.003	0.0116	< 0.003	<0.003			
MW1-3	7/11/1988	15	<10	< 0.003	0.0129	< 0.003	0.0051			
MW1-4	7/11/1988	20	<10	<0.003	0.023	< 0.003	< 0.003			
MW2-1	7/11/1988	5	<10	< 0.003	0.0161	< 0.003	< 0.003			
MW2-2	7/11/1988	10	<10	< 0.003	0.0093	< 0.003	< 0.003			
MW2-3	7/11/1988	15	<10	< 0.003	0.01	< 0.003	< 0.003			
MW3-1	7/12/1988	10	278	< 0.05	0.388	< 0.003	0.411		11 ^e	
MW3-2	7/12/1988	15	<10	< 0.003	0.0367	< 0.003	< 0.003		8.3 ^e	

Table 1. Historic Soil Analytical Data - Shell-branded Service Station - Incident # 98995741, 230 W. MacArthur Boulevard, Oakland, California

							Total			Organic
Sample ID	Date	Depth	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead	Lead
		(feet)	-			(ppm) —			
MW3-3	7/12/1988	20	<10	< 0.003	0.0304	0.0076	< 0.003			
SB1-1	8/16/1989	5	<1.0	< 0.05	< 0.1	<0.1	< 0.1			
SB1-2	8/16/1989	10	<1.0	< 0.05	< 0.1	< 0.1	< 0.1			
SB1-3	8/16/1989	15	<1.0	< 0.05	< 0.1	< 0.1	< 0.1			
SB1 (composite)	8/16/1989	Composite							4.5 ^a	<0.05
SB2-1	8/16/1989	5.5	<1.0	< 0.05	<0.1	<0.1	<0.1			
SB2-2	8/16/1989	10.5	<1.0	< 0.05	< 0.1	< 0.1	< 0.1			
SB2-3	8/16/1989	15.5	490	< 0.05	0.28	1.3	1			
SB2 (composite)	8/16/1989	Composite							2.5 ^a	< 0.05
SB3-1	8/16/1989	4.5	6.6	< 0.05	0.26	0.14	0.63			
SB3-2	8/16/1989	9.5	<1.0	< 0.05	<0.1	< 0.1	< 0.1			
SB3-3	8/16/1989	15.5	<1.0	< 0.05	< 0.1	< 0.1	< 0.1			
SB3 (composite)	8/16/1989	Composite							5.5 ^a	< 0.05
SB-1-5'	3/24/2004	5	<1.0	< 0.0050	< 0.0050	< 0.0050	<0.0050	< 0.0050		
SB-1-10'	3/24/2004	10	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		
SB-1-15'	3/24/2004	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0078		
SB-1-17'	3/24/2004	17	12	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025		
SB-1-19.5'	3/24/2004	19.5	43	<0.024	<0.024	< 0.024	< 0.024	< 0.024		
SB-2-5'	3/24/2004	5	<1.0	<0.0050	< 0.0050	<0.0050	<0.0050	<0.0050		
SB-2-10'	3/24/2004	10	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		
SB-2-15'	3/24/2004	15	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050		

Table 1. Historic Soil Analytical Data - Shell-branded Service Station - Incident # 98995741, 230 W. MacArthur Boulevard, Oakland, California

Sample ID	Date	Depth	ТРНд	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	Lead	Organic Lead
	<u>.</u>	(feet)				(ppr	n)			
SB-2-17'	3/24/2004	17	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	0.0099		
SB-2-19.5'	3/24/2004	19.5	10	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025		***

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA method 8260B (before 2004, analyzed by EPA method 8015).

Benzene, ethylbenzene, toluene, total xylenes by EPA method 8260B (before 2004, analyzed by EPA medthod 8020).

MTBE = Methyl tert-butyl ether by EPA method 8260B.

Organic lead analyzed by Cal LUFT Manual, 12/87

ppm = Parts per million (milligrams per kilogram).

ND = Below detection limit

< x = Below detection limit of x ppm

--- = Not analyzed

a = Analytical method is unknown

b = Total lead analyzed by unknown method

c = Composite of four samples taken from depths of 4 - 5 fbg, 7 - 8.5 fbg, 11 - 12.5 fbg, and 13.5 - 15 fbg

d = Lead analyzed by EPA method 7421

e = Total lead analyzed by EPA methold 7240

Table 2. Historical Grab Groundwater Analytical Data - Shell-branded Service Station - 230 W. MacArthur Boulevard, Oakland, California - Incident # 98995741

Sample ID	Date	ТРНg	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE
GS-1 ^a	10/17/1989	<50 ^b	<0.5 ^b	<0.5 ^b	<0.6 ^b	<1.5 ^b	
GS-2 ^a	10/17/1989	5,600 ^b	340^{b}	27 ^b	1,200 ^b	62 ^b	
GS-3 ^a	10/17/1989	8,800 ^b	380 ^b	6 ^b	580 ^b	42 ^b	
Probe 1	5/19/1990	<50	<0.5	<0.5	<0.5	<0.5	
Probe 2	5/19/1990	25,000	280	290	160	470	
Probe 3	5/19/1990	<50	< 0.5	< 0.5	<0.5	< 0.5	
Probe 4	5/19/1990	< 50	5	< 0.5	2	< 0.5	
Probe 5	5/19/1990	<50	1	2	1	4	
Probe 6	5/19/1990	31,000	430	600	240	1,400	
SB-1-W	3/24/2004	10,000	430	75	98	44	110
SB-2-W	3/24/2004	520	4.9	<1.0	<1.0	<2.0	320

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline analyzed by EPA method 8260B; before 2004, analyzed by EPA method 8015.

Benzene, ethylbenzene, toluene, total xylenes analyzed by EPA method 8260B; before 2004, analyzed by EPA method 8020.

MTBE = Methyl tert-butyl ether analyzed by EPA method 8260B.

ppb = Parts per billion

< x = Below detection limit of x ppm

--- = Not analyzed

a = Sample taken from temporary well

b = Analyzed by unknown method

ATTACHMENT A

Certified Laboratory Analytical Reports



Submission#: 2004-03-0880

Cambria Environmental Emeryville

April 09, 2004

5900 Hollis Street, Ste. A Emeryville, CA 94608

Attn.:

Caryl Weekley

Project#: 246-0902=007

Project:

98995741

Site:

230 W. MacArthur, Oakland, CA

Dear Ms. Weekley,

Attached is our report for your samples received on 03/26/2004 16:30 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

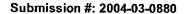
Please note that any unused portion of the samples will be discarded after 05/10/2004 unless you have requested otherwise.

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: vvancil@stl-inc.com

Sincerely,

Vincent Vancil Project Manager





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

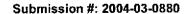
98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
SB-1-5`	03/24/2004 09:15	Soil	1
SB-1-10`	03/24/2004 10:15	Soil	2
SB-1-15`	03/24/2004 10:25	Soil	3
SB-1-17`	03/24/2004 10:30	Soil	4
SB-1-19.5`	03/24/2004 10:40	Soil	5
SB-2-5`	03/24/2004 09:30	Soil	7
SB-2-10"	03/24/2004 12:30	Soil	8
SB-2-15`	03/24/2004 12:45	Soil	9
SB-2-17	03/24/2004 12:50	Soil	10
SB-2-19.5`	03/24/2004 13:00	Soil	11





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

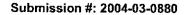
Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	_
	2000
Prep(s): 5030B Test(s): 8260B	893
Prep(s): 5030B Test(s): 8260B	#11E
FIGURE COURT	1122
	2333
	M32.0
Sample ID: SB-1-5 Lab ID: 2004-03-0880 - 1	200
Sample ID: SB-1-5 Lab ID: 2004-03-0880 - 1	836i:
	200
	282
	COLK
Sampled: 03/24/2004 09:15 Extracted: 4/1/2004 21:23	386
Nampion 12/14/14/1/19-15 Evironion ATT/HA 1/14	3332
CAUGGEO. TITZO	10£
	/8985
	3338 3338
	1300
Matrix: Soil QC Batch# 2004/04/01-2A.69	838
	222

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/01/2004 21:23	
Benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 21:23	
Toluene	ND	0.0050	mg/Kg	1.00	04/01/2004 21:23	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 21:23	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/01/2004 21:23	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/01/2004 21:23	
Surrogate(s)						
1,2-Dichloroethane-d4	94.3	70-121	%	1.00	04/01/2004 21:23	
Toluene-d8	92.8	81-117	%	1.00	04/01/2004 21:23	





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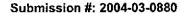
Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	A Service Service and the Administration of the Control of the Con
	The second strong to be designed by the second strong stro
PARTIE AND ANALYSIS OF THE PROPERTY OF THE PRO	15 C 18 C
Prep(s) 5030B Test(s): 8260B	
	The state of the s
	Spring Charles of Child Control of Child Control of Control of Child Contr
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Sample ID: SB-1-10' Lab ID: 2004-03-0880 - 2	ACTION TO BE THE STATE OF THE S
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	27 No. of Contract Co
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	Self and the self-transfer of
Sampled: 03/24/2004 10:15 Extracted: 4/1/2004 22:19	a first trans of the control of the
	ALL AND A STREET A
	CONTRACTOR
Many Sal	The state of the s
Matrix; Soil QC Batch#: 2004/04/01-2A 69	ALTERNATION OF THE PROPERTY OF
	~~~ 5~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~

Compound	Сопс.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/01/2004 22:19	<del></del>
Benzene	ND	0.0050	mg/Kg		04/01/2004 22:19	
Toluene	ND	0.0050	mg/Kg	1.00	04/01/2004 22:19	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 22:19	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/01/2004 22:19	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg		04/01/2004 22:19	
Surrogate(s)						
1,2-Dichloroethane-d4	92.4	70-121	%	1.00	04/01/2004 22:19	
Toluene-d8	97.4	81-117	%	1.00	04/01/2004 22:19	





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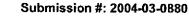
Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	(s) 8260B
Prep(s): 5030B Test	
Sample ID: SB-1-15	
Sample ID: SB-125 Habitation Lab	ID: 2004-03-0880 - 3
	acted: 4/1/2004 22:37
Sampled: 03/24/2004 10:25 Extra	
Matrix: Soil CO	
	Batch#: 2004/04/01-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/01/2004 22:37	
Benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 22:37	
Toluene	ND	0.0050	mg/Kg	1.00	04/01/2004 22:37	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 22:37	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/01/2004 22:37	
Methyl tert-butyl ether (MTBE)	0.0078	0.0050	mg/Kg	1.00	04/01/2004 22:37	
Surrogate(s)						
1,2-Dichloroethane-d4	92.9	70-121	%	1.00	04/01/2004 22:37	
Toluene-d8	87.9	81-117	%	1.00	04/01/2004 22:37	





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Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Prep(s): 5030B	Test(s):	8260B	
Sample ID: SB-1-17*	Lab ID:	2004-03-0880 - 4	7688
Sampled: 03/24/2004 10:30			Second
Matrix: Soil		2004/04/01-2A 69	
Analysis Flag: o ( See Legend and Note Section )	40 Julio		a superior of
			å

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	12	4.9	mg/Kg	4.90	04/02/2004 01:23	g
Benzene	ND	0.025	mg/Kg		04/02/2004 01:23	
Toluene	ND	0.025	mg/Kg	4.90	04/02/2004 01:23	
Ethyl benzene	ND	0.025	mg/Kg	4.90	04/02/2004 01:23	
Total xylenes	ND	0.025	mg/Kg	4.90	04/02/2004 01:23	
Methyl tert-butyl ether (MTBE)	ND	0.025	mg/Kg	4.90	04/02/2004 01:23	
Surrogate(s)						
1,2-Dichloroethane-d4	102.7	70-121	%	4.90	04/02/2004 01:23	
Toluene-d8	84.3	81-117	%	4.90	04/02/2004 01:23	





Cambria Environmental Emeryville

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5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

 Prep(s):
 5030B
 Test(s):
 8260B

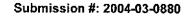
 Sample ID:
 2004-03-0880 - 5

 Sampled:
 03/24/2004 10:40
 Extracted:
 4/2/2004 01:41

 Matrix:
 Soil
 QC Batch#:
 2004/04/01-2A,69

 Analysis Flag:
 o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	43	4.8	mg/Kg	4.76	04/02/2004 01:41	g
Benzene	ND	0.024	mg/Kg	4.76	04/02/2004 01:41	_
Toluene	ND	0.024	mg/Kg	4.76	04/02/2004 01:41	
Ethyl benzene	ND	0.024	mg/Kg	4.76	04/02/2004 01:41	
Total xylenes	ND	0.024	mg/Kg	4.76	04/02/2004 01:41	
Methyl tert-butyl ether (MTBE)	ND	0.024	mg/Kg	4.76	04/02/2004 01:41	
Surrogate(s)					:	
1,2-Dichloroethane-d4	98.8	70-121	%	4.76	04/02/2004 01:41	
Toluene-d8	95.6	81-117	%	4.76	04/02/2004 01:41	





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Phone: (510) 420-3324 Fax: (510) 420-9170

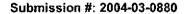
Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Prep(s): 5030B Test(s): 8260B
Prep(s): 5030B Test(s): 8260B
Sample ID: SB-2-5' lab ID: 2004-03-0880 - 7
Sample ID: SB-2-5 Lab ID: 2004-03-0880 - 7
Sampled: 03/24/2004 09:30 Extracted: 4/1/2004 22:55
Matrix Soil QC Batch# 2004/04/01-2A 69
Matrix Soil QC Batch# 2004/04/01-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/01/2004 22:55	
Benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 22:55	
Toluene	ND	0.0050	mg/Kg	1.00	04/01/2004 22:55	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 22:55	
Total xylenes	ND	0.0050	mg/Kg	1.00	1 1	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00		
Surrogate(s)				•	0 1/0 1/200 / 22:00	
1,2-Dichloroethane-d4	92.8	70-121	%	1.00	04/01/2004 22:55	
Toluene-d8	99.9	81-117	%	1.00	04/01/2004 22:55	





Cambria Environmental Emeryville

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Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Prep(s): 5030B Test(s): 8260B
Sample ID: SB-2-10 Lab ID: 2004-03-0880 - 8
Sampled: 03/24/2004 12:30 Extracted: 4/1/2004 23:14
Matrix: Soil QC Balch#: 2004/04/01-2A.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/01/2004 23:14	
Benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 23:14	
Toluene	ND	0.0050	mg/Kg	1.00	04/01/2004 23:14	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 23:14	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/01/2004 23:14	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	1.00	04/01/2004 23:14	
Surrogate(s)			1 - 1			
1,2-Dichloroethane-d4	93.6	70-121	%	1.00	04/01/2004 23:14	
Toluene-d8	93.3	81-117	%	1.00	04/01/2004 23:14	



Submission #: 2004-03-0880

## Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

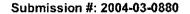
Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	Chick the Company of
	-1
Prep(s): 5030B° Tes(s): 8250B	CONT. SEC. (CO.) CO. S. C.
DCIC X MILE	200 Control (100 C
Prep(s) 5030B Test(s) 8260B	
	A CONTRACTOR OF THE PARTY OF TH
Sample ID: SB-2-15' Lab ID: 2004-03-0880 - 9	A. S. C.
	4447 A 444 A 4
	COMMISSION
	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
	AND THE PARTY OF T
	Charles Communication (Communication)
Sampled: 03/24/2004 12:45 Extracted: 4/1/2004 23:32	Service of the servic
	A THE RESIDENCE OF THE
FAIRE AND A CONTRACTOR OF THE PROPERTY OF THE	AND THE RESERVE OF THE PARTY OF
	and the property of the Control of t
	A CONTRACT OF THE PARTY OF THE
	.1.C.(12121 Sec. value 20082 7311000
Matrix: Soil QC Batch#: 2004/04/01-2A.69	313000000
	AD311431343 0.2 Processor (0.12143224 1.1214324 1.1214324 1.121434 1.121434 1.121434 1.121434 1.121434 1.121434
	25-1015-1613-150-120-200-120-200-120-200-120-120-120-12
	-FEFER PERSON CONTROL

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/01/2004 23:32	
Benzene	ND	0.0050	mg/Kg		04/01/2004 23:32	
Toluene	ND	0.0050	mg/Kg		04/01/2004 23:32	
Ethyl benzene	ND	0.0050	mg/Kg		04/01/2004 23:32	
Total xylenes	ND	0.0050	mg/Kg		04/01/2004 23:32	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg		04/01/2004 23:32	
Surrogate(s)	ļ				- W - W	
1,2-Dichloroethane-d4	93.4	70-121	%	1.00	04/01/2004 23:32	
Toluene-d8	92.2	81-117	%		04/01/2004 23:32	





Cambria Environmental Emeryville

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Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Prep(s): 50308 1 (4) 1 (4) Test(s): 8260B
Sample ID: SB-2-17 Lab ID: 2004-03-0880 - 10
Sample ID: SB-2-17' Lab ID 2004-03-0880 - 10
Sampled: 03/24/2004 12:50 Extracted: 4/1/2004 23:50
Sampled: 03/24/2004 12:50 Extracted: 4/1/2004 23:50
Matrix: Soil QC Batch# 2004/04/01-2A 69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	04/01/2004 23:50	·
Benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 23:50	
Toluene	ND	0.0050	mg/Kg	1.00	04/01/2004 23:50	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	04/01/2004 23:50	
Total xylenes	ND	0.0050	mg/Kg	1.00	04/01/2004 23:50	
Methyl tert-butyl ether (MTBE)	0.0099	0.0050	mg/Kg	1.00	04/01/2004 23:50	
Surrogate(s)						
1,2-Dichloroethane-d4	96.0	70-121	1%	1.00	04/01/2004 23:50	
Toluene-d8	96.1	81-117	%	1.00	04/01/2004 23:50	





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Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

Prep(s): 5030B

Sample ID: SB-2-19.5"

Sampled: 03/24/2004 13:00

Matrix: Sc

Soil

Test(s): 8260B

Lab ID:

2004-03-0880 - 11

Extracted:

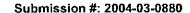
4/2/2004 00:09

QC Batch#: 2004/0

2004/04/01-02.69

Comment of the Comment of the Contraction Comments of the Comm	MANAGE SKEET COLUMNICATION (C.E.) Trans. Professional Sales N.O. (1900) 665688455.Co.; 55	chinal and an expe
Analysis Flag; o ( See	Legend and Note Sect	ion )

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	10	5.0	mg/Kg	4.95	04/02/2004 00:09	
Benzene	ND	0.025	mg/Kg	4.95	04/02/2004 00:09	J
Toluene	ND	0.025	mg/Kg	4.95	04/02/2004 00:09	
Ethyl benzene	ND	0.025	mg/Kg	4.95		
Total xylenes	ND	0.025	mg/Kg	4.95	04/02/2004 00:09	
Methyl tert-butyl ether (MTBE)	ND	0.025	mg/Kg	4.95	04/02/2004 00:09	
Surrogate(s)		ļ				
1,2-Dichloroethane-d4	101.1	70-121	%	4.95	04/02/2004 00:09	
Toluene-d8	94.7	81-117	%		04/02/2004 00:09	





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Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	Bato	h QC Report			
Prep(s): 5030B Method Blank MB: 2004/04/01-02.69-029	Da	Test(s QC Batch # 2004/04/0 te Extracted: 04/01/200			
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1000	ug/Kg	04/01/2004 18:29	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/Kg	04/01/2004 18:29	
Benzene	ND	5.0	ug/Kg	04/01/2004 18:29	
Toluene	ND	5.0	ug/Kg	04/01/2004 18:29	
Ethyl benzene	ND	5.0	ug/Kg	04/01/2004 18:29	
Total xylenes	ND	5.0	ug/Kg	04/01/2004 18:29	
Surrogates(s)					
1,2-Dichloroethane-d4	96.6	70-121	%	04/01/2004 18:29	
Toluene-d8	95.4	81-117	%	04/01/2004 18:29	



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Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	Bate	h QC Report			
Prep(s): 5030B Method Blank MB: 2004/04/01-2A:69-029		Soil		Test(s QC Batch # 2004/04/0 ite Extracted: 04/01/200	1000
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.000	mg/Kg	04/01/2004 18:29	
Methyl tert-butyl ether (MTBE)	ND	0.0050	mg/Kg	04/01/2004 18:29	
Benzene	ND	0.0050	mg/Kg	04/01/2004 18:29	
Toluene	ND	0.0050	mg/Kg	04/01/2004 18:29	
Ethyl benzene	ND	0.0050	mg/Kg	04/01/2004 18:29	
Total xylenes	ND	0.0050	mg/Kg	04/01/2004 18:29	
Surrogates(s)					
1,2-Dichloroethane-d4	96.6	70-121	%	04/01/2004 18:29	
Toluene-d8	95.4	81-117	%	04/01/2004 18:29	





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Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	Batch QC Report	asidii in direnga kasa sa
Prep(s): 5030B		Test(s): 8260B
		OC P-1-1-1 2004/04/04 02:50
Laboratory Control Spike  LCS 2004/04/01-02 69-053	Soil	QC Batch # 2004/04/01-02.69
LCSD 2004/04/01-02.69-011	Extracted: 04/01/2004 Extracted: 04/01/2004	Analyzed: 04/01/2004 17:53 Analyzed: 04/01/2004 18:11

Compound	Conc. ug/Kg		Exp,Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	56.1 49.5 50.6	55.8 50.3 51.2	50.0 50.0 50.0	112.2 99.0 101.2	111.6 100.6 102.4	0.5 1.6 1.2	65-165 69-129 <b>7</b> 0-130	20 20 20		
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	463 470	452 465	500 500	92.6 94.0	90.4 93.0		70-121 81-117			•



Submission #: 2004-03-0880

#### **Gas/BTEX/MTBE by 8260B (C6-C12)**

Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

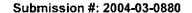
Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	TOTAL OF MALE		- 7 - 11 <b>- 2</b> 0 - 20 - 20 - 20 - 20 - 20 - 20 - 20				particular.	**************************************	7/36(1945) appl 52	egsar na sasar
		E	Batch QC Re	port		2.3				
Prep(s): 5030B					e presenta				Test(s):	8260B
Laboratory Control Spik	e	e in de G	Soil		Not believe	Q	C Batch	# 200	4/04/01	-2A.69
LCS 2004/04/01-2A	69-053		Extracted: 04/01/2004				Analyze	d: 04	01/2004	17:53
LCSD 2004/04/01-2A	69-011		Extracted: (	04/01/20	04		Analyze	d: 04	01/2004	18:11
Compound	mg/Kg	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	· Fla	ags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE)	0.0561	0.0558	0.05	112.2	111.6	0.5	65-165	20		





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

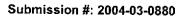
Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	Batch QC Report	ngan sa pagasa sa 1944. Mangangan sa pagasa sa pagasa sa	
Prep(s): 5030B			Test(s): 8260B
Matrix Spike ( MS / MSD )	Soll	QC Batch	# 2004/04/01-02.69
SB-1-5 >> MS >		Lab ID:	2004-03-0880 - 001
MS: 2004/04/01-02:69-042	Extracted: 04/01/2004	Analyzed: Dilution:	04/01/2004 21:42 1.00
MSD: 2004/04/01-02.69-056	Extracted: 04/01/2004	Analyzed: Dilution:	04/01/2004 22:00 1:00

Compound Conc.		L	ug/ <b>K</b> g		Spk.Level R		Recovery %		%	Flags	
	MS	MSD	Sample	ug/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether	54.3	48.7	ND	46.9	115.8	100.6	14.0	65-165	20		
Benzene	47.4	50.9	ND	46.9	101.1	105.2	4.0	69-129	20		
Toluene	47.1	50.9	ND	46.9	100.4	105.2	4.7	70-130	20		
Surrogate(s)									ŀ		ļ
1,2-Dichloroethane-d4	469	442		500	93.8	88.4		70-121			: :
Toluene-d8	469	472		500	93.8	94.3		81-117			





Cambria Environmental Emeryville

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5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

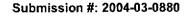
Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	Batch QC Report		
Prep(s): 5030B			Test(s): 8260B
Matrix Spike ( MS / MSD )	Soil	QC Bate	h # 2004/04/01-2A.69
SB-1-5" >> MS.		Lab ID:	2004-03-0880 - 001
MS: 2004/04/01-2A.69-042	Extracted: 04/01/2004	Analyzed:	04/01/2004 21:42
MSD: 2004/04/01-2A.69-056	Extracted: 04/01/2004	Dilution: Analyzed:	1,00 04/01/2004 22:00
		Dilution:	1.00

Compound Conc	Conc.	mg/Kg		Spk.Level		Recovery %		Limits %		Flags	
	MS	MSD	Sample	mg/Kg	MS	MSD	RPD	Rec.	RPD	MS	MSD
Methyl tert-butyl ether Benzene Toluene	0.0543 0.0474 0.0471	0.0487 0.0509 0.0509	ND ND ND	0.046904 0.046904 0.046904	101.1	100.5 105.2 105.2	14.1 4.0 4.7	65-165 69-129 70-130	20 20 20		
Surrogate(s) 1,2-Dichloroethane-d4 Toluene-d8	469 469	442 472		500 500	93.8 93.8	88.4 94.3		70-121 81-117			





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

## Legend and Notes

#### **Analysis Flag**

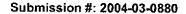
o

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

#### **Result Flag**

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

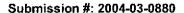
98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

#### Samples Reported

Sample Name	Date Sampled	Malnx .	Lab#
SB-1-W	03/24/2004 11:00	Water	6
SB-2-W	03/24/2004 13:15	Water	12





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	10000	250	ug/L	5.00	04/01/2004 09:56	
Benzene	430	2.5	ug/L	5.00	04/01/2004 09:56	
Toluene	75	2.5	ug/L	5.00	04/01/2004 09:56	
Ethylbenzene	98	2.5	ug/L	5.00	04/01/2004 09:56	
Total xylenes	44	5.0	ug/L	5.00	04/01/2004 09:56	
Methyl tert-butyl ether (MTBE)	110	2.5	ug/L	5.00	04/01/2004 09:56	
Surrogate(s)						
1,2-Dichloroethane-d4	107.1	76-130	%	5.00	04/01/2004 09:56	
Toluene-d8	101.7	78-115	%	5.00	04/01/2004 09:56	



Cambria Environmental Emeryville

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Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

 Prep(s):
 5030B
 Test(s):
 8260B

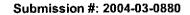
 Sample ID:
 SB-2-W
 Lab ID:
 2004-03-0880 - 12

 Sampled:
 03/24/2004 13:15
 Extracted:
 4/1/2004 10:21

 Matrix:
 Water
 QC Batch#:
 2004/04/01-1C.66

 Analysis Flag:
 o (See Legend and Note Section)

Compound Conc. RL Unit Dilution Analyzed Flag Gasoline 520 100 ug/L 2.00 04/01/2004 10:21 Benzene 4.9 1.0 2.00 ug/L 04/01/2004 10:21 Toluene ND 1.0 ug/L 2.00 04/01/2004 10:21 Ethylbenzene ND 1.0 ug/L 2.00 04/01/2004 10:21 Total xylenes ND 2.0 2.00 ug/L 04/01/2004 10:21 Methyl tert-butyl ether (MTBE) 320 1.0 ug/L 2.00 04/01/2004 10:21 Surrogate(s) 1,2-Dichloroethane-d4 124.4 76-130 % 2.00 04/01/2004 10:21 Toluene-d8 106.7 78-115 % 2.00 04/01/2004 10:21





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

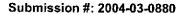
Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

		h QC Report	Declar frame (Pro									
Prep(s): 5030B Method Blank MB: 2004/04/01-1C 66-030	Method Blank         Water         QC Batch # 2004/04           MB: 2004/04/01-1C 66-030         Date Extracted: 04/01/2											
Compound	Conc.	RL	Unit	Analyzed	Flag							
Gasoline	ND	50	ug/L	04/01/2004 08:30								
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	04/01/2004 08:30								
Benzene	ND	0.5	ug/L	04/01/2004 08:30								
Toluene	ND	0.5	ug/L	04/01/2004 08:30								
Ethylbenzene	ND	0.5	ug/L	04/01/2004 08:30								
Total xylenes	ND	1.0	ug/L	04/01/2004 08:30								
Surrogates(s)			İ									
1,2-Dichloroethane-d4	100.2	76-130	%	04/01/2004 08:30								
Toluene-d8	102.2	78-115	%	04/01/2004 08:30								





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

			Batch QC R	eport			li e e			
Prep(s): 5030B									Tesl(s):	8260B
Laboratory Control Spik	6		Wate			Q	2 Batch	# 200	4/04/01	-1C.66
LCS 2004/04/01-1C LCSD 2004/04/01-1C			Extracted:				Analyze Analyze			CASC MANAGEMENT
Compound	Conc.	ug/L	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Methyl tert-butyl ether (MTBE) Benzene Toluene	24.2 25.7 26.4	24.7 28.0 25.3	25 25 25	96.8 102.8 105.6	98.8 112.0 101.2	2.0 8.6 4.3	65-165 69-129 70-130	20 20 20	•//-	
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	459 502	497 528	500 500	91.8 10 <b>0.4</b>	99.4 105.6		76-130 78-115	_ ~		



Submission #: 2004-03-0880

#### Gas/BTEX/MTBE by 8260B (C6-C12)

Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

#### Legend and Notes

#### **Analysis Flag**

0

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

84259

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□ LA - R	WQGD REPORT FORM UST AGENCY:													7.4	(A)		S	:		9	1				1			
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LAB: STL San francisco							S	HE	ELI	L C	Cha	ain	O	f C	)us	sto	rdy	R	ec	or	d				842	59
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zancial comun. Cambria Environmantal	CETO		- 1. 1	<del></del>			1. 16.	leed at	1 1		Daki	en min	ır	Λ.				) 11 Company		LAL ID I	10,:	240		<u> </u>		
Sancias Exploration Annexes Sancias St. Ste A Emeryville; CA PAGEET CONTACT (Next Spyce PDF Regards):  Caryl Weekley  FEEPHENE:  510-420-3324  510-420-3170	EMAL)	iambrii si	woom.		strelle	oaklar	AULETA Ideolo	),espe Jeans	orio-ei	iny ir t Ny cor	a sign e e	<u> </u>	4, W.	PKN	420-2	3339			E WAS			env c	MT.	e i se	246-0902=0	
TURNAROUND TIME (BUSPIESS DAYS);	O 74 HOURS		S THAN 24	HÖURS											Ŕ	EQU	EST	ED/	INAL	YSK	S		1 370,000			
SPECIAL INSTRUCTIONS OR NOTES: CH Please or results to scaling cambria-env.cor  Field Sample Identification  SB-2-5'	SAMPL DATE	IDN EI DÜ İMEƏÇBY BHI BHIT	MATRIX Seed		THE Gas Purgsable	-+ X   9.7EX	Ya	X MTBE (6280B - 0.5ppb RU)	TAME, DIPE, ETBE(see notes)	Ethatioi (8260B)	Methanol	EDB & 1,2 DCA (B160B)	EPA 6035 Extraction for Votatiles	VOCS Halogenated/Aromatic (80219)	TRPH (418.7)	Vaper VDCs BTEX / MTBE (TO-45)	Vapar Vöcs Full List (16-15)	Vapor TPH AASTM 3416m	Vapor Fixed Gasses, (ASTM D1946)	Text for Disposal ( 48-	Test for Disposal, see attached	TPH - Diesel, Extractable (8015m)		MIRE(175609) Cantonarioa, See Mara	FIELD NO Containes/Pless or PID Read of Laboratory  On ICE) Fis TEMPERATURE ON REC	rvalive ngs Rotes (Lpoid IO
68, Z-17'		1250				1			:									******				~~~~				
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Submission#: 2004-03-0869

#### Cambria Environmental Emeryville

April 02, 2004

5900 Hollis Street, Ste. A Emeryville, CA 94608

Attn.:

Caryl Weekley

Project#: 246-0902=007

Project:

98995741

Site:

230 W. MacArthur, Oakland, CA

Dear Ms. Weekley,

Attached is our report for your samples received on 03/26/2004 16:30 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 05/10/2004 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: vvancil@stl-inc.com

Sincerely,

Vincent Vancil Project Manager



Submission #: 2004-03-0869



# Total Lead

Cambria Environmental Emeryville

Attn.; Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

#### Samples Reported

,,,0,0,0	03/24/2004 07:00	Soil	
SP-1A,B,C,D	03/24/2004 07:00	O ::	
Sample Name	Date Sampled:	Matrix	. Lab#⁵



#### **Total Lead**

Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

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Sample ID: SP.1A,B,C,D 20	I/I/ (12 11864 - 7
	04-00-0003
Sampled: 00/94/000407-00	10/0004 40 04
Sampled: 03/24/2004 07:00 Extracted: 3/2	/4//11/144   1.11/1
Matrix: Soil QC Batch#: 20	Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of th
Metric C.1	a Manica ca Le
Midula Solician Appenii A	04/03/29-06.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Lead	3.9	1.0	mg/Kg	1.00	03/30/2004 10:28	



Submission #: 2004-03-0869

#### **Total Lead**

Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Compound	Conc.	T _{RL}	Unit	Analyzed	Fla
					JT, 10
MB: 2004/03/29-06.15-030			Dat	e Extracted: 03/29/20	0.4 A 1
Method Blank		Soil		QC Batch # 2004/03/;	
Prep(s). 3050B	49.00 (20.00)			(Test(s	). 601





#### **Total Lead**

Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

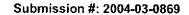
Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

	9612 <b>-</b>	<b>- -</b> - <b>-</b> - <b>-</b>	latch QC Re	eport		12.0	12 Feb.			
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Laboratory Control Spi	ke.		Soil		rs (Pare) (Anti-Si)	Q	C Batch	ı # 20	04/03/29	9-06 15
LCS 2004/03/29-06			Extracted: ( Extracted: (				71 7 70 70 70 70 70 70 70 70 70 70 70 70 7			1 08 30 1 08:34
Compound	Conc.	mg/Kg	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fl	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Lead	88.8	87.8	100.0	88.88	87.8	1.1	80-120	20		





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

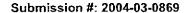
98995741

Received: 03/26/2004 16:30

Site: 230 W. MacArthur, Oakland, CA

#### Samples Reported

SP-1	03/24/2004 07:00	Soil	1
Sample Name	Date Sampled	Malnx - Malnx	Lab#





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

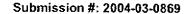
Project: 246-0902=007

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Received: 03/26/2004 16:30

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Prep(s): 5030B
Prep(s): 50308 Test(s): 8260B
Sample ID: SP-1 Lab ID: 2004-03-0869 - 1
COVID: AUGUSTO CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRAC
Sampled: 03/24/2004 07:00 Extracted: 3/31/2004 19:32
Matrix: Soil QC Batch#: 2004/03/31-2A 69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	03/31/2004 19:32	
Benzene	ND	0.0050	mg/Kg	1.00	03/31/2004 19:32	
Toluene	ND	0.0050	mg/Kg	1.00	03/31/2004 19:32	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	03/31/2004 19:32	
Total xylenes	ND	0.0050	mg/Kg	1.00	03/31/2004 19:32	
Surrogate(s)						•
1,2-Dichloroethane-d4	94.9	70-121	%	1.00	03/31/2004 19:32	
Toluene-d8	95.8	81-117	%	1.00	03/31/2004 19:32	





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

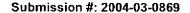
Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

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Received: 03/26/2004 16:30

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	A compared to the second	a trains of stab		rek representat albertak represen	ar all all m
					A 10 30
MB 2004/03/31-2A.69-058			Da	le Extracted: 03/31/20	04 18 58
Method Blank	cipang melalis	Soil	arguntus entit	QC Batch # 2004/03/3	1-2A.69
Prep(s): 5030B	and the second	Access to the personal			). <b>8</b> 260B





Cambria Environmental Emeryville

Attn.: Caryl Weekley

5900 Hollis Street, Ste. A Emeryville, CA 94608

Phone: (510) 420-3324 Fax: (510) 420-9170

Project: 246-0902=007

98995741

Received: 03/26/2004 16:30

Batch QC Report   Test(s) 82608   Test(s) 82608	Compound	LCS	LCSD	Exp.Conc.	LCS	LCSD	% %	Rec.	RPD	LCS	LCSD
Prep(s): 5030B Test(s): 8260B  Laboratory Control Spike Soil QC Batch # 2004/03/31-2A.69  LCS: 2004/03/31-2A 69-021 Extracted: 03/31/2004 Analyzed: 03/31/2004 18:21		Conc.	mg/Kg	Exp.Conc.	Poss	VOD/ 9/	RPD	Ctrl Lin	nito 0/		
Prep(s): 5030B - Test(s): 8260B  Laboratory Control Spike Soil QC Batch # 2004/03/31-2A.69  LCS : 2004/03/31-2A.69-021 Extracted: 03/31/2004 Analyzed: 03/31/2004 18:21	, LESU, 2004/03/	31-2A.69-040	Mercal Section	Extracted:	03/31/20	004		Analyze	ed: 03	/31/2004	l 18:40
Prep(s): 5030B Test(s): 8260B  Laboratory Control Spike Soil QC Batch # 2004/03/31-2A:69					The state of the state of			gur or Margan va Para Normania	100		
Prep(s): 5030B			erine grande gr				- 4	o Dalcii	m ZVI	,-1103131	-LM.03
	Laboratory Contro	l Snike		Soil			O	* Batch	. # 20r	พราสา	24.60
	**************************************				4,861				4.4	resits):	5 <b>∠</b> 008
Batch QC Report	Prence): 5030B		Marries .							4	odcen
	A Maria Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of th			Batch QC Re	eport	a and dis				li de la constantina	

Compound	Conc.	mg/Kg	Exp.Conc.	Reco	very %	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene Toluene	0.0539 0.0523	0.0552 0.0533	0.05 0.05	107.8 104.6	110.4 106.6	2.4 1.9	69-129 70-130			
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	460 469	439 498	500 500	92.0 93.8	87.8 99.6		70-121 81-117			

This information is business proprietary and confidential and must not be divulged or shared outside. the company. The use of this information is strictly for the purpose of doing business with the Controlized Residual Management Team (CRMT). Upon termination of the relationship with the CRMT, this information is not to be forwarded, duplicated, shared or used for any purpose other than for the documentation of past actions:

#### RESIDUAL MANAGEMENT PROCEDURE

ISSUED DATE 08/01/01

CANCELS ISSUE

ISSUED BY

RESIDUAL STREAM:

SOIL WITH UNLEADED GASOLINE

VENDOR:

ALLIED-BFI

LOCATION:

ALLIED WASTE - MANTECA 9999 SOUTH AUSTIN ROAD

MÁNTECA, CA 95336

CALIFORNIA - TRANSPORTATION AND RETAIL

BTEX - EPA 80218/82608 (IF BENZENE IS > OR = TO 10 MG/KG THEN TOLP BENZENE IS REQUIRED)

CAM METALS - TILC METALS - LEXB ONLY

STUGON ALL TILC METALS 10 TIMES STUG MAXIMUM

TTLC LEAD > 13 MG/KG REQUIRES ORGANIC LEAD ANALYSIS

IF ANY TILC TOTAL METAL IS > OR = TO 20 TIMES TOLP REGULATORY LEVELS, TOLP IS REQUIRED

TOTAL PETROLEUM HYDROCARBONS, METHOD 418:1 OF 8015 GASOLINE

<del>- MTOE HETHOD 0260B (GC/MS)</del>

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES > OR = TO 5000 PPM TPH. AQUATIC BIOASSAY (FISH TOX) = PART 800 OF STANDARD METHODS FOR THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

-ALTERNATE APPROVED TEST METHODS PER SW846 ARE ALSO ACCEPTABLE
-ALL REQUIRED TESTS ON COMPOSITE (M&X 4: 1)
-LABORATORY IS TO SUPPLY QAYOC INFORMATION WITH ALL ANALYTICAL REPORTS
-MAIL OR FAX ALL ANALYSIS TO THE CENTRALIZED RESIDUAL MANAGEMENT TEAM

PROCEDURE ORIGINAL DATE: 08/01/01 PROCEDURE REVISED DATE: 08/01/01

**ATTACHMENT B** 

Permits

CAMBRIA



#### ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
FHONE (\$10) 670-6633 James You
FAX (\$10) 78Z-1939

FAX (410) 782-1939

APPLICANTS; PLEASE ATTACH A SITE MAP FOR ALI, DRILLING PERMIT APPLICATIONS
DESTRUCTION ()F WELLS OVER 45 PEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT A	PPLICATION
FOR APPLICANT TO COMPLETE LOCATION OF PROJECT 230 W. McActhur Contiguos Ca	PERMIT NUMBER W04-0256 WELL NUMBER APN
	PERMIT CONDITIONS Circled Permit Requirements Apply
CLIENT Name St. 11 011 Particle (c. (US) Address 20945 Wilminicherthono 1559 6459306 City Cason CA 2ip 90540 APPLICANT Nume (Combride Paritranmontal 510-420-9190 Address 5700 15115 St. 21 A Phone 5104703339 City Engunule CA Zip 94608	Well Completion Report,  3. Permit is void if project not begun within 90 days of approval date  B. WATER SUPPLY WELLS
TYPE OF PROJECT  Well Construction  Cathodic Protection  Water Supply  Geotechnical Investigation  Contemination  Water Supply  Monitoring  Under Supply  Well Destruction	1. Minimum surface seal thickness is two inches of coment grout placed by framic. 2. Minimum seal depth is 50 feet for municipal and Industrial wells or 20 feet for domentic and irrigation wells unless a lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS INCLUDING FIEZOMETERS.
PROPOSED WATER SUPPLY WELL USE SB-1  New Domestic D Replacement Domestic (1)  Municipal O Irrigation (1)  Industrial O Other 11	1. Minimum surface scal thickness is two inches of coment grout placed by treuse. 2. Minimum scal depth for monitoring wells is the maximum depth practicable of 20 feet.
MIRILING METHOD:  Mud Robary D Air Robary D Auger C  Cable D Other X (geoprobe)  DRILLER'S NAME Grove D Cilly Testing	D) GEOTECHNICAL Con from his Allow Backfill bafe hole by transie with cament grout or cament groutysand mixture. Upper two-three feet replaced in kind a with compacted outsings.  E. CATHODIC Fill hole another zone with contected placed by transie.
DRILLER'S LICENSE NO. C-57 485-165	F. WELL DESTRUCTION  Sond a map of work site. A separate permit in required for wells deeper than 45 feet.  E. SPEKIAL CONDITIONS (2) # 1
WELL PROJECTS  Drill Holo Diameter by Maximum  Caling Diameter lin. Depth ft.  Surface Scal Depth R. Owner's Well Number  PLAYTHMARA	NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.
Number of Boring Maximum Hole Diameter Depth 25 R	
COMPLETION DATE 3/24/04	ALEROVED DATE DATE
hereby agree to comply with all requirements of this permit and Alameda County Ordinance No.	. 1 1 1
APPLICANT'S SHONATURE DATE 3/16/0	
PLEASE PRINT NAME STEWART 9 Dale W Rev. 9-18-02	$\setminus \mathcal{N}$



# **EXCAVATION PERMIT**

**CIVIL** 

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

**ENGINEERING** 

PAGE 2 of 2		(MON WELL)
PERMIT NUMBER X 0	20 <u>0345</u>	SITE ADDRESS/LOCATION 610 Market Street - Cakland, CA
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER
4/16/02	4/19/02	(Permit not valid without 24-Hour number) 925 - 313 - 5800
CONTRACTOR'S LICENSE # AND		CITY BUSINESS TAX #
C-57-4851	65	5850 <i>3</i> 3
ATTENTION:		<u> </u>
l - State law requires th secured an inquiry id	at the contractor/owner call Underground Stentification number issued by USA. The U	Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has ISA telephone number is 1-800-642-2441. Underground Service Alert (USA) #
2- 48 hours prio	r to starting work, you MUS	ST CALL (510) 238-3651 to schedule an inspection.
3- 48 hours prio	r to re-paving, a compaction	n certificate is required (waived for approved slurry backfill).
OWNER/BUILDER		
provisions of the Contractor's License alleged exemption. Any violation of S I, as an owner of the property, or Professions Code: The Contractor's I provided that such improvements are a burden of proving that he did not build. I, as owner of the property, am ex be performed prior to sale, (3) I have structures more than once during any I, as owner of the property, am ex does not apply to an owner of propert. I am exempt under Sec.  WORKER'S COMPENSATION  I hereby affirm that I have a certif Policy # WC 3 15065	e law Chapter 9 (commencing with Sec. 75 Section 7031.5 by any applicant for a per my employees with wages as their sole c License Law does not apply to an owner not intended or offered for sale. If howe d or improve for the purpose of sale), compt from the sale requirements of the al resided in the residence for the 12 month three-year period. (Sec. 7044 Business archasively contracting with licensed contray who builds or improves thereon, and when the sale residence for the same of the sale residence for the same of the sale residence for the same of the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale residence for the sale reside	icate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).  Grego Desiling and Testing  J. I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws
comply with such provisions or this per granted upon the express condition the perform the obligations with respect to and employees, from and against any sustained or arising in the construction	ermit shall be deemed revoked. This per at the permittee shall be responsible for a postreet maintenance. The permittee shall and all suits, claims, or actions brought to the work performed under the permit	ou should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith mit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to an account of the permit agrees to defend, indemnify, save and hold harmless the City, its officers by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property to rin consequence of permittee's failure to perform the obligations with respect to street maintenance. This by the Director of the Office of Planning and Building.
this permit and agree to its requiremen	or provisions of Chapter 9 of Division 3 ats, and that the above information is true	of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read and correct under penalty of law.
Signature of Permittee	/  Agent for  Contractor  Owner	4/10/02 Date
DATE STREET LAST	SPECIAL PAVING DETAIL	HOLIDAY RESTRICTION? LIMITED OPERATION AREA?
RESURFACED	REQUIRED? • YES • NO	(NOV:1 - JAN:1) □ YES: □ NO (7AM-9AM & 4PM-6PM): □ YES: □ NO
ISSUED BY	7/1	DATE ISSUED 4/0/02

ATTACHMENT C

**Boring Logs** 



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

#### **BORING/WELL LOG**

PAGE 1 OF 1

**CLIENT NAME** Shell Oil Products Company (US) BORING/WELL NAME __SB-1 JOB/SITE NAME Shell-Branded Service Station DRILLING STARTED 24-Mar-04 LOCATION 230 West MacArthur Boulevard, California DRILLING COMPLETED 24-Mar-04 PROJECT NUMBER 246-0902-007 WELL DEVELOPMENT DATE (YIELD) NA DRILLER Gregg Drilling **GROUND SURFACE ELEVATION** DRILLING METHOD Hydraulic push TOP OF CASING ELEVATION NA BORING DIAMETER SCREENED INTERVAL NA LOGGED BY Stewart A. Dalie IV DEPTH TO WATER (First Encountered) __ 17.0 ft (24-Mar-04) REVIEWED BY Matthew W. Derby P.E. # 55475 DEPTH TO WATER (Static) Y 12.5 ft (24-Mar-04)

REMAI	RKS		Hand augered and air knifed to approximately 8 fbg.								
PID (ppm)	ТРН9 (ррт)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (# bgs)	WELL DIAGRA	M
						ML	0 4 9 4	Concrete.  Clayey SILT; (ML); Light brown; medium dense; dry; 25 % clay, 75% silt.	1.0		
0			SB-1 5'		5 —	GM		Silty GRAVEL; (GM); Brown; medium dense; dry; 25% silt, 75% gravel.	5.0		
0.4			SB-1- 10'	X M	 10 	SC CL		Clayey SAND; (SC); Brown; very dense; dry; 30% clay, 60% sand.  Silty CLAY; (CL); Olive brown; very hard; dry; 85% clay, 35% silt.	9.3	▼ Portland	∤Туј
8	7.5		SB-1- 15'		-  15	sc		Clayey SAND; (SC); Olive gray; very dense; damp; 35% clay, 55% sand, 10% gravel.	13.0		
25			SB-1- 17'	X		SP	(///	Poorly Graded SAND; (SP); Olive gray; loose; wet; 100% sand.	17.0 19.0		
341		,	SB-1- 19.5'		-20-	GW	7.	Well graded GRAVEL with Sand; (GW); Olive gray; very dense; wel; 40% sand, 60% gravel.	20.0	Bottom of Boring @	f 20
į											



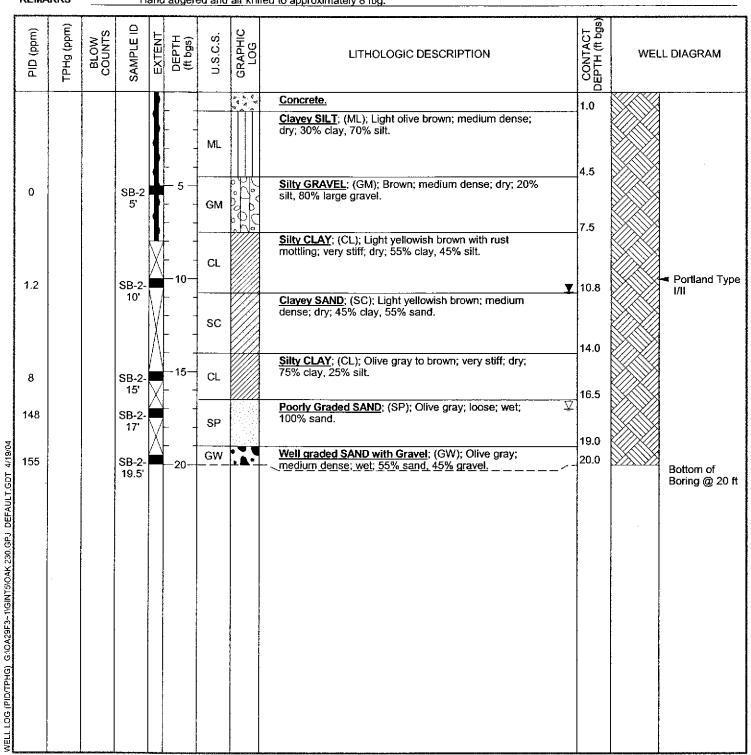


Cambria Environmental Technology, Inc. 5900 Hollis Street, Suite A Emeryville, CA 94608

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

CLIENT NAME	Shell Oil Products Company (US)	BORING/WELL NAME SB-2	_
IOB/SITE NAME	Shell-Branded Service Station	DRILLING STARTED 24-Mar-04	_
OCATION _	230 West MacArthur Boulevard, California	DRILLING COMPLETED 24-Mar-04	_
PROJECT NUMBER _	246-0902-007	WELL DEVELOPMENT DATE (YIELD) NA	_
ORILLER	Gregg Drilling	GROUND SURFACE ELEVATION	
DRILLING METHOD	Hydraulic push	TOP OF CASING ELEVATION NA	
BORING DIAMETER _	3"	SCREENED INTERVAL NA	
OGGED BY	Stewart A. Dalie IV	DEPTH TO WATER (First Encountered) 17.0 ft (24-Mar-04)	Ż
REVIEWED BY	Matthew W. Derby P.E. # 55475	DEPTH TO WATER (Static) 10.7 ft (24-Mar-04)	1
			_

REMARKS Hand augered and air knifed to approximately 8 fbg.



PAGE 1 OF 1

# ATTACHMENT D Soil Disposal Confirmation Report



Hazardous Waste Hauler	(Registration #2843)	 _
Tallanda		

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

**Disposal Confirmation** 04/07/04 Request for Transportation Received: Consultant Information Cambria Environmental Company: Stu Dalie Contact: 510 420-3339 Phone: 510 420-9170 Fax: Site Information N/A Station #: 230 W. McArthur Blvd Street Address: Oakland, CA City, State, ZIP: RESA-0023-LDC Shell Oil Company Customer: 33597 RIPR#: 135676 SAP # / Location: 98995741 Incident #: 204-55008-0703 Location / WIC #: Perry Pineda Environmental Engineer: Contaminated Soil Material Description: 1 yards Estimated Quantity: Service Requested Date: Forward Landfill Disposal Facility: Joe Griffith Contact: 800 204-4242 Phone: 4357 Approval #: 04/08/2004 Date of Disposal: 0.17 Tons Actual Tonnage Manley & Sons Trucking, Inc. Transporter: Glenell Manley Contact: 916 381-6864 Phone: <u>916 38</u>1-1573 Fax: Invoice: Date of Invoice:

# ATTACHMENT E

Standard Field Procedures for Geoprobe® Soil Sampling

# CAMBRIA

#### STANDARD FIELD 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