

February 15, 2001

Mr. Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

2646

Re: **Offsite Subsurface Investigation Report**
Shell-branded Service Station
540 Hegenberger Road
Oakland, California
Incident #98995752
Cambria Project #243-0414-006



Dear Mr. Chan:

Cambria Environmental Technology, Inc. (Cambria), on behalf of Equiva Services LLC (Equiva), is submitting the results of the offsite subsurface investigation conducted on August 29, and September 5, 2000 at the referenced site. The objective of this investigation was to define the lateral and vertical extent of methyl tertiary-butyl ether (MTBE) in soil and groundwater. The investigation was conducted in accordance with our May 8, 2000 *Subsurface Investigation Work Plan* and June 19, 2000 *Investigation Work Plan Addendum* which were approved in a June 29, 2000 Alameda County Health Care Services Agency (ACHCSA) letter to Equiva. Presented below are summaries of the site background, investigation procedures, investigation results, conclusions, and recommendations.

BACKGROUND

Site Description: The site is located at the southeast intersection of Hegenberger Road and Edes Avenue in a commercially-zoned area of Oakland, California. Highway 880 runs approximately 1500 feet south of the site. The site is an active Shell-branded service station with three gasoline underground storage tanks (USTs) and one diesel UST (Figure 1).

August 1996 Piping Repair: On August 8, 1996, Cambria collected one soil sample beneath the piping at Dispenser 1, which was being repaired (Figure 1). In this sample, 3,400 milligrams per kilogram (mg/kg) of total petroleum hydrocarbons as gasoline (TPHg) were detected, 17 mg/kg of benzene were detected, and 720 mg/kg of MTBE were reported by EPA Method 8020.

Oakland, CA
San Ramon, CA
Sonoma, CA
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1998 Station Upgrade: In January and February 1998, Paradiso Mechanical of San Leandro, California added secondary containment beneath the existing dispensers and submersible turbine pumps. Cambria collected soil samples beneath the dispensers. The maximum concentrations of hydrocarbons reported in soil were 340 mg/kg TPHg and 3.7 mg/kg benzene beneath the western dispenser-island. During the line tightness test on February 6, 1998, a leak in the piping between the USTs and the western dispenser-island was discovered and repaired on the same day. No separate-phase hydrocarbons (SPH) were observed during Cambria's February 7, 1998 site visit. Based on Cambria's February 6, 1998 telephone conversation with Barney Chan of the ACHCSA, additional sampling in the area of the repaired piping was not required due to a planned soil and groundwater investigation at the site.



1998 Soil Borings: On March 6, 1998, Cambria advanced five onsite soil borings, SB-1 through SB-5 (Figure 1). Boring depths ranged from 12 to 20 feet below grade (fbg). The maximum TPHg, benzene, and MTBE concentrations in soil were reported 6 fbg in boring SB-5, at 3,400 mg/kg, 39 mg/kg, and 170 mg/kg, respectively. The maximum TPHg, benzene, and MTBE concentrations in groundwater were also reported in boring SB-5, at 200,000 micrograms per liter (µg/L), 11,000 µg/L, and 1,300,000 µg/L, respectively.

1998 Groundwater Monitoring Well Installation: On July 14 and 15, 1998, Cambria installed three groundwater monitoring wells and advanced one soil boring at the site (Figure 1). MW-1 was installed to 25 fbg in boring SB-A. MW-2 and MW-3 were installed to 20 fbg in borings SB-B and SB-C, respectively. SB-D was advanced to 16 fbg. The maximum concentrations of hydrocarbons reported in soil were 460 mg/kg TPHg, 4.7 mg/kg benzene, and 240 mg/kg MTBE in boring SB-D at a depth of 5.5 fbg. The maximum concentrations of hydrocarbons reported in groundwater were 190 µg/L benzene in well MW-3, and 31,000 µg/L MTBE by EPA Method 8020 in the southwestern tank backfill well. No TPHg was detected in any of the groundwater samples. Groundwater has been monitored onsite since August, 1998.

1999-2000 Interim Remediation Efforts: Beginning July 1999, Cambria coordinated weekly groundwater extraction events from selected site wells using a vacuum truck. In June of 2000, vacuum truck operations were optimized to include extraction and treatment of soil vapors in addition to dissolved-phase hydrocarbons (dual-phase vacuum extraction). Soil and groundwater purge data and hydrocarbon mass removal calculations are presented in Tables 1 and 2. Interim remediation efforts were completed in December 2000. The final remedial model (see Appendix B) indicate that the site poses a low risk to public health and human

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INVESTIGATION PROCEDURES

For this investigation, Cambria positioned the soil borings and monitoring well to define the lateral and vertical extent of MTBE in soil and groundwater. Three borings were initially advanced along Edes Avenue, adjacent to the site (borings SB-E, SB-F and SB-G). The analytical results of the soil boring samples were reviewed before positioning monitoring well MW-4 across the street from the site, on Edes Avenue approximately 40 feet from the northwest corner of Edes Avenue and Enterprise Way (Figure 1).



The procedures for this subsurface investigation, described in Cambria's approved work plan, are summarized below. Analytical results for groundwater and soil samples collected from the soil borings and monitoring wells are summarized in Table 3 and 4 respectively and are presented in attachment A. Soil boring and monitoring well logs, and Cambria's standard field procedures for soil borings and monitoring wells are presented in Attachments B and C, respectively.

- Personnel Present:*** James Loetterle, Staff Geologist, Cambria.
Shannon Couch, Staff Geologist, Cambria.
Gene Numes, Luis Menjiuar, and Don Pearson, Gregg Drilling and Testing Inc.
James Woo, Engineer-Scientist, Water Resources Division of County of Alameda Public Works Agency.
- Permits:*** County of Alameda Public Works Agency, Drilling Permits – W00-540, and W00-541.
City of Oakland Encroachment Permit # 200158167
City of Oakland Construction Permit # X001394
Copies of the permits are included as Attachment D.
- Drilling Company:*** Gregg Drilling and Testing Inc. of Martinez, California (C-57 License #485165).
- Drilling Dates:*** August 29 and September 5, 2000.
- Drilling Method:*** Eight- and ten-inch diameter hollow-stem augers with split-spoon samplers.
- Number of Borings:*** Four borings (SB-E, SB-F, SB-G, and MW-4) (Figure 1). MW-4 was converted into a groundwater monitoring well.

Boring Depths: SB-E, SB-F, SB-G, and MW-4 were advanced to 26.5, 11.5, 11.5, and 19.5 fbg, respectively (Attachment B).

Sediment Lithology: One-and-a-half feet of asphalt were encountered on the west side of Edes Avenue, while four inches of asphalt were encountered on the east side of the street. Damp, sandy fill lies beneath the asphalt to an approximate depth of 4.5 to 6.5 fbg. In SB-E and SB-F, damp, clayey silt underlies the fill to 26.5 fbg. In SB-G and MW-4, moist, silty sand underlies the fill to the depth of 16 fbg in MW-4. Wet, silty clay underlies the silty sand to 19.5 fbg in MW-4 (Attachment B).

Monitoring Well Specifications: MW-4 was installed to 19.5 fbg. MW-4 is constructed of four-inch diameter PVC with 0.010-inch slotted screen, and is screened from 5 to 19.5 fbg (Attachment B).

Monitoring Well Elevation: The top of casing elevation at well MW-4 was surveyed on September 21, 2000 by Virgil Chavez Land Surveying of Vallejo, California (Attachment E).

Monitoring Well Development: Monitoring well MW-4 has been developed and sampled by Blaine Tech Services (Blaine) of San Jose, California. Sample results from the December 15, 2000 sampling event are shown on Figure 1. Analytical results are included as Attachment A.

Groundwater Depth: Groundwater was encountered between 7 and 9.5 fbg. Historically groundwater flow direction has ranged from north-northeast to east.

Chemical Analyses: Selected soil samples and all groundwater samples from each boring and well were analyzed as follows:

- TPHg by modified EPA Method 8015;
- MTBE and benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020; and
- Samples with reported MTBE concentrations were re-analyzed using EPA Method 8260.

Physical Analyses: Selected soil samples from each boring and well were analyzed as follows:

- Total organic carbon by potassium dichromate/sulfuric acid digestion;

- Percent moisture by ASTM method D 2974;
- Bulk density by ASTM method D 2937; and
- Porosity as pore volume by ASTM method D 854.

To characterize stockpiled soil for disposal, 4 brass tubes of soil were collected from the stockpiled soil, and composited by the analytical laboratory. The composite samples were analyzed as follows:

- TPHg by DHS GC-FID modified EPA Method 8015;
- BTEX by EPA Method 8020; and
- TTLC lead.



Soil Handling:

Soil cuttings produced from the borings were profiled and disposed of at Forward Landfill in Manteca, California on October 10, 2000 (Attachment F).

INVESTIGATION RESULTS

Analytical Results for Soil Samples: The maximum concentration of TPHg in soil was reported in sample SB-G-10.5' at 468 mg/kg. The maximum concentration of total petroleum hydrocarbons as diesel (TPHd) in soil was reported in sample SB-G-10.5' at 108 mg/kg. The maximum concentration of MTBE in soil reported by EPA Method 8260 was in sample SB-E-15.5 at 0.481 mg/kg. No benzene was reported in any of the soil samples from borings SB-E, SB-F, SB-G, or MW-4. Soil analytical data is summarized in Table 4 and the certified analytical reports are presented in Attachment A.

Analytical Results for Groundwater Samples: The grab groundwater samples contained concentrations of TPHg at 0.1763 µg/L, 1.00 µg/L, and benzene at 2,000 µg/L. Groundwater analytical data is summarized in Table 3 and the certified laboratory analytical reports are presented in Attachment A.



Newly-installed MW-4 was sampled on December 15, 2000. Concentrations of TPHg, BTEX and MTBE were reported below method detection limits. Analytical results for the December 15, 2000 sampling event are presented on Figure 1 and Table 3 in

Letter:
CVU Hwy Rd

Mr. Barney Chan
February 15, 2001

Soil Physical Properties: Soil samples were analyzed for physical properties from the capillary fringe zone at depths of 6.0 to 11.0 fbg. Results of these analyses are presented in Table 5, and the certified analytical reports are presented in Attachment A.

SITE CONCEPTUAL MODEL

Cambria has prepared a tabulated SCM for the site (Attachment G). 




SENSITIVE RECEPTOR SURVEY

Cambria performed a 1/2-mile radius sensitive receptor survey for the site in October 1999. Department of Water Resources records were reviewed to identify water wells. Topographic maps were reviewed to identify surface bodies of water. No domestic water well receptors were identified within a 1/2-mile radius of the site. Wells identified within the 1/2-mile search area are shown on Figure 2 and described in Table 6.

CONCLUSIONS AND RECOMMENDATIONS

The maximum concentrations of TPHg in both soil and groundwater occurred in boring SB-G at 468 mg/kg and 51,100 µg/L respectively. The only detection of benzene in groundwater was from sample SB-G-W1 at 2,080 µg/L. Although the maximum concentration of MTBE in soil was found in SB-E, the maximum concentration of MTBE found in groundwater by EPA Method 8260 was in SB-G at a concentration of 76,400 µg/L. After observing that the highest concentrations of hydrocarbons were located at the eastern side of the site, Cambria decided to install MW-4 across the street from SB-G and slightly to the north of the soil boring (Figure 1).

Data from this investigation completes the specific elements of the SCM that were requested by the ACHCSA in the November 19, 1999 letter to Equiva:

- **Evaluate the source and timing of an apparent MTBE release.** The source of a MTBE release appears to be the leak in the piping between the USTs and the western dispenser island that was discovered during the line tightness test on February 6, 1998. Soil samples

collected in March, 1998 from the closest soil boring to the leak contained 170 mg/kg MTBE. Groundwater samples collected in July, 1998 from the closest monitoring well to the leak contained 653,000 µg/L MTBE. Thus it appears that by July, 1998, MTBE was already in the groundwater and travelling away from the source.

- **Explain the absence of TPHg and BTEX.** It appears that the bulk of contaminated soil was removed in the February 1998 over-excavation efforts subsequent to the line tightness test. Due to the solubility of MTBE in groundwater, higher concentrations of MTBE can be expected to appear downgradient of the source.



MTBE originating from the site is not likely impacting the Arco Service Station to the north for the following reasons:

- MTBE concentrations in well MW-2 have never exceeded 14,000 µg/L (the believed concentration of MTBE in MW-1 at the ARCO site). The grab groundwater sample collected from boring SB-E contained 17,900 µg/L MTBE. However, this concentration is likely an order of magnitude greater than expected and may not accurately reflect groundwater conditions to the north of the Shell site.
- The rose diagram presented on Figure 1 indicates that the mean groundwater gradient direction is northeast, as opposed to north where the Arco station is located.
- Based on MTBE distribution observed in boring SB-E, SB-F and SB-G, MTBE concentrations appear to have migrated east rather than north towards the ARCO site.

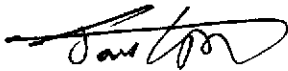
In conclusion, Cambria recommends continuing quarterly monitoring to further assess MTBE concentration trends and groundwater flow direction. ~~Since the plume is defined and there are no receptors downgradient, the plume is not likely to impact the ARCO site.~~

disagree

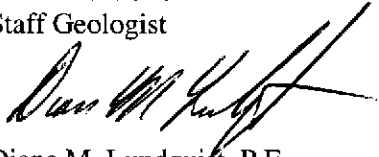
CLOSING

We appreciate your continued assistance with this project. Please call Stephan Bork at (510) 420-3344 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.



James Loetterle
Staff Geologist



Diane M. Lundquist, P.E.
Principal Engineer



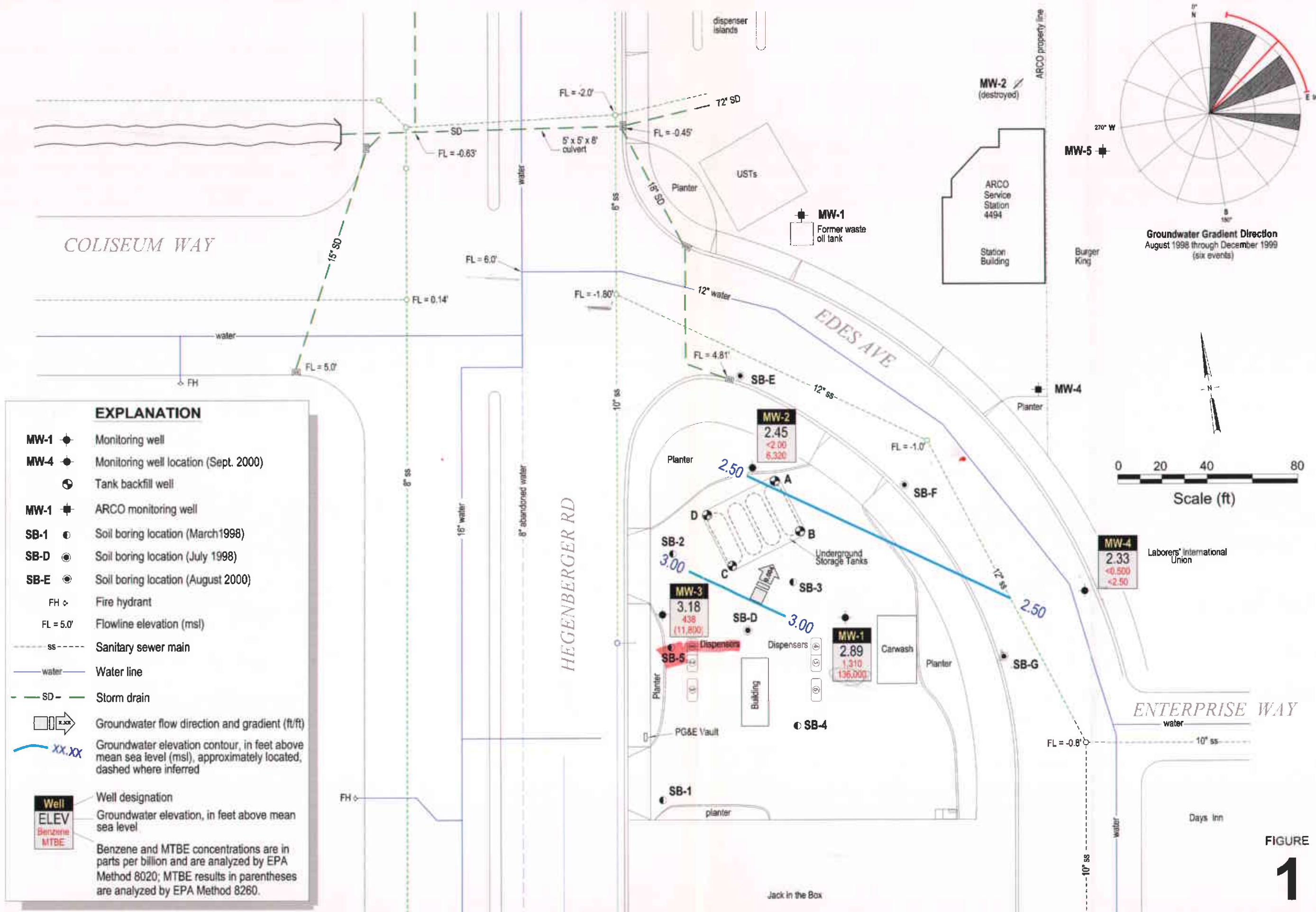
Figures: 1 - Underground Utility Map with Monitoring Well and Soil Boring Locations
2 - Area Well Survey

Tables: 1 - Groundwater Extraction Mass Removal Data
2 - Vapor Extraction Mass Removal Data
3 - Groundwater Chemical Analytical Data
4 - Soil Chemical Analytical Data
5 - Soil Physical Analytical Data
6 - Well Survey Results

Attachments: A - Analytical Reports for Groundwater, Soil, Soil Physical Properties, and Soil Stockpile Samples
B - Soil Boring Logs
C - Standard Field Procedures for Soil Borings and Monitoring Wells
D - Permits
E - Survey Data
F - Soil Disposal Confirmation
G - Site Conceptual Model

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, CA 91510-7869

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EXPLANATION

- MW-1 ● Monitoring well
- MW-4 ● Monitoring well location (Sept. 2000)
- Tank backfill well
- MW-1 ⚡ ARCO monitoring well
- SB-1 ● Soil boring location (March 1998)
- SB-D ● Soil boring location (July 1998)
- SB-E ● Soil boring location (August 2000)
- FH ◇ Fire hydrant
- FL = 5.0' Flowline elevation (msl)
- ss --- Sanitary sewer main
- water — Water line
- - - SD - - - Storm drain
- Groundwater flow direction and gradient (ft/ft)
- XX.XX Groundwater elevation contour, in feet above mean sea level (msl), approximately located, dashed where inferred

Well	ELEV	Benzene	MTBE
MW-2	2.45	<2.00	6,320
MW-3	3.18	438	(11,800)
MW-1	2.89	1,310	136,000
MW-4	2.33	<0.500	<2.50

Well designation
Groundwater elevation, in feet above mean sea level
Benzene and MTBE concentrations are in parts per billion and are analyzed by EPA Method 8020; MTBE results are analyzed by EPA Method 8260.

FIGURE 1

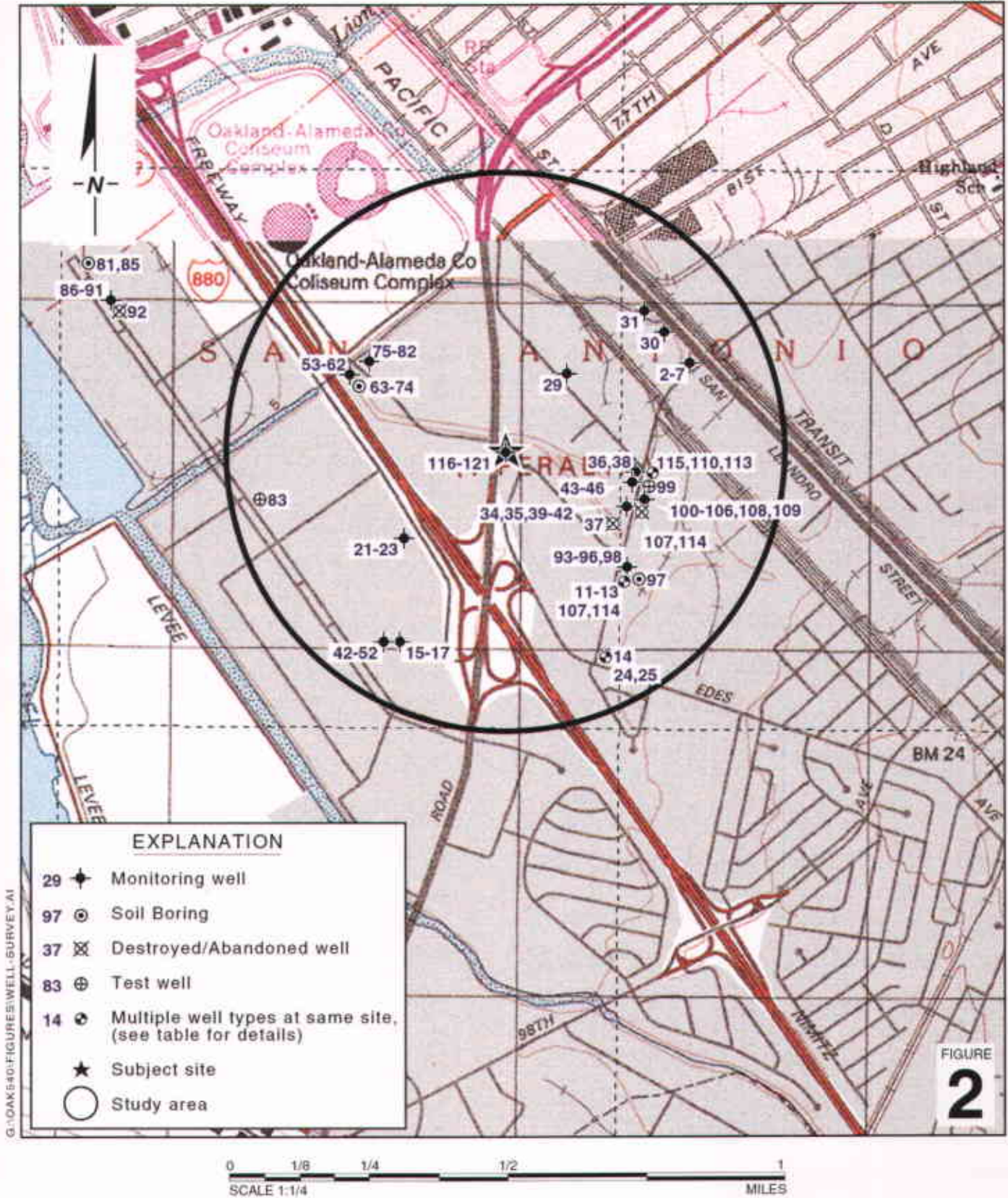
Underground Utility Map with Monitoring Well and Soil Boring Locations and Groundwater Sampling Results for

December 15, 2000



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Shell-branded Service Station
 540 Hegenberger Road
 Oakland, California
 Incident #98995752



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FIGURE 2

Shell-branded Service Station
 540 Hegenberger Road
 Oakland, California
 Incident #98995752



C A M B R I A

Area Well Survey
 (1/2-Mile Radius)

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
07/29/99	BW-A	400	400	06/22/99	318	0.00106	0.00106	< 0.50	< 0.00000	< 0.00000	4,470	0.01492	0.01492
08/04/99	BW-A	2,000	2,400	06/22/99	318	0.00531	0.00637	< 0.50	< 0.00001	< 0.00001	4,470	0.07460	0.08952
08/11/99	BW-A	2,437	4,837	06/22/99	318	0.00647	0.01284	< 0.50	< 0.00001	< 0.00002	4,470	0.09090	0.18042
08/20/99	BW-A	1,213	6,050	06/22/99	318	0.00322	0.01605	< 0.50	< 0.00001	< 0.00003	4,470	0.04524	0.22566
08/30/99	BW-A	2,673	8,723	06/22/99	318	0.00709	0.02315	< 0.50	< 0.00001	< 0.00004	4,470	0.09970	0.32536
09/03/99*	BW-A	325	9,048	06/22/99	318	0.00086	0.02401	< 0.50	< 0.00000	< 0.00004	4,470	0.01212	0.33748
09/10/99*	BW-A	425	9,148	06/22/99	318	0.00113	0.02514	< 0.50	< 0.00000	< 0.00004	4,470	0.01585	0.35334
09/23/99	BW-A	615	9,763	06/22/99	318	0.00163	0.02677	< 0.50	< 0.00000	< 0.00004	4,470	0.02294	0.37628
09/29/99	BW-A	800	10,563	06/22/99	318	0.00212	0.02889	< 0.50	< 0.00000	< 0.00005	4,470	0.02984	0.40611
11/05/99	BW-A	675	11,238	06/22/99	318	0.00179	0.03068	< 0.50	< 0.00000	< 0.00005	4,470	0.02518	0.43129
07/29/99	BW-B	1,000	1,000	06/22/99	< 250	< 0.00209	< 0.00209	< 2.5	< 0.00002	< 0.00002	8,600	0.07176	0.07176
08/04/99	BW-B	800	1,800	06/22/99	< 250	< 0.00167	< 0.00375	< 2.5	< 0.00002	< 0.00210	8,600	0.05741	0.12917
08/11/99	BW-B	2,213	4,013	06/22/99	< 250	< 0.00462	< 0.00837	< 2.5	< 0.00005	< 0.00380	8,600	0.15881	0.28798
08/20/99	BW-B	1,213	5,226	06/22/99	< 250	< 0.00253	< 0.01090	< 2.5	< 0.00003	< 0.00840	8,600	0.08705	0.37503
08/30/99	BW-B	877	6,103	06/22/99	< 250	< 0.00183	< 0.01273	< 2.5	< 0.00002	< 0.01092	8,600	0.06293	0.43796
09/03/99*	BW-B	325	6,428	06/22/99	< 250	< 0.00068	< 0.01341	< 2.5	< 0.00001	< 0.01274	8,600	0.02332	0.46128
09/10/99*	BW-B	425	6,853	06/22/99	< 250	< 0.00089	< 0.01430	< 2.5	< 0.00001	< 0.01342	8,600	0.03050	0.49178
09/23/99	BW-B	750	7,603	06/22/99	< 250	< 0.00156	< 0.01586	< 2.5	< 0.00002	< 0.01431	8,600	0.05382	0.54560
09/29/99	BW-B	600	8,203	06/22/99	< 250	< 0.00125	< 0.01711	< 2.5	< 0.00001	< 0.01587	8,600	0.04306	0.58866
11/05/99	BW-B	650	8,853	06/22/99	< 250	< 0.00136	< 0.01847	< 2.5	< 0.00001	< 0.01713	8,600	0.04664	0.63530
07/29/99	BW-C	300	300	06/22/99	< 50	< 0.00013	< 0.00013	< 0.50	< 0.00000	< 0.00000	11,000	0.02754	0.02754
08/04/99	BW-C	700	1,000	06/22/99	< 50	< 0.00029	< 0.00042	< 0.50	< 0.00000	< 0.00000	11,000	0.06425	0.09179
08/11/99	BW-C	0	1,000	06/22/99	< 50	< 0.00000	< 0.00042	< 0.50	< 0.00000	< 0.00000	11,000	0.00000	0.09179
08/20/99	BW-C	1,013	2,013	06/22/99	< 50	< 0.00042	< 0.00084	< 0.50	< 0.00000	< 0.00001	11,000	0.09298	0.18477
08/30/99	BW-C	375	2,388	06/22/99	< 50	< 0.00016	< 0.00100	< 0.50	< 0.00000	< 0.00001	11,000	0.03442	0.21919
09/03/99*	BW-C	325	2,713	06/22/99	< 50	< 0.00014	< 0.00113	< 0.50	< 0.00000	< 0.00001	11,000	0.02983	0.24902
09/10/99*	BW-C	425	3,138	06/22/99	< 50	< 0.00018	< 0.00131	< 0.50	< 0.00000	< 0.00001	11,000	0.03901	0.28803

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
09/23/99	BW-C	750	3,888	06/22/99	< 50	< 0.00031	< 0.00162	< 0.50	< 0.00000	< 0.00002	11,000	0.06884	0.35687
09/29/99	BW-C	700	4,588	06/22/99	< 50	< 0.00029	< 0.00191	< 0.50	< 0.00000	< 0.00002	11,000	0.06425	0.42112
11/05/99	BW-C	550	5,138	06/22/99	< 50	< 0.00023	< 0.00214	< 0.50	< 0.00000	< 0.00002	11,000	0.05048	0.47161
06/06/00	BW-C	926	6,064	06/22/99	< 50	< 0.00039	< 0.00253	< 0.50	< 0.00000	< 0.00003	11,000	0.08500	0.55660
09/07/00	BW-C	1,000	7,064	06/22/99	< 50	< 0.00042	< 0.00295	< 0.50	< 0.00000	< 0.00003	11,000	0.09179	0.64839
07/29/99	BW-D	1,500	1,500	06/22/99	< 50	< 0.00063	< 0.00063	< 0.500	< 0.00001	< 0.00001	2,190	0.02741	0.02741
08/04/99	BW-D	250	1,750	06/22/99	< 50	< 0.00010	< 0.00073	< 0.500	< 0.00000	< 0.00001	2,190	0.00457	0.03198
08/11/99	BW-D	0	1,750	06/22/99	< 50	< 0.00000	< 0.00073	< 0.500	< 0.00000	< 0.00001	2,190	0.00000	0.03198
08/20/99	BW-D	1,213	2,963	06/22/99	< 50	< 0.00051	< 0.00124	< 0.500	< 0.00001	< 0.00001	2,190	0.02217	0.05415
08/30/99	BW-D	280	3,243	06/22/99	< 50	< 0.00012	< 0.00135	< 0.500	< 0.00000	< 0.00001	2,190	0.00512	0.05926
09/03/99*	BW-D	325	3,568	06/22/99	< 50	< 0.00014	< 0.00149	< 0.500	< 0.00000	< 0.00001	2,190	0.00594	0.06520
09/10/99*	BW-D	425	3,993	06/22/99	< 50	< 0.00018	< 0.00167	< 0.500	< 0.00000	< 0.00002	2,190	0.00777	0.07297
09/23/99	BW-D	750	4,743	06/22/99	< 50	< 0.00031	< 0.00198	< 0.500	< 0.00000	< 0.00002	2,190	0.01371	0.08667
09/29/99	BW-D	700	5,443	06/22/99	< 50	< 0.00029	< 0.00227	< 0.500	< 0.00000	< 0.00002	2,190	0.01279	0.09947
11/05/99	BW-D	625	6,068	06/22/99	< 50	< 0.00026	< 0.00253	< 0.500	< 0.00000	< 0.00003	2,190	0.01142	0.11089
07/29/99	MW-1	150	150	06/22/99	20,000	0.02503	0.02503	100	0.00013	0.00013	150,000	0.18775	0.18775
08/04/99	MW-1	150	300	06/22/99	20,000	0.02503	0.05007	100	0.00013	0.00025	150,000	0.18775	0.37550
08/11/99	MW-1	15	315	06/22/99	20,000	0.00250	0.05257	100	0.00001	0.00026	150,000	0.01877	0.39427
08/20/99	MW-1	44	359	06/22/99	20,000	0.00734	0.05991	100	0.00004	0.00030	150,000	0.05507	0.44934
08/30/99	MW-1	218	577	06/22/99	20,000	0.03638	0.09629	100	0.00018	0.00048	150,000	0.27286	0.72220
09/03/99*	MW-1	125	702	06/22/99	20,000	0.02086	0.11715	100	0.00010	0.00059	150,000	0.15646	0.87866
09/10/99*	MW-1	75	777	06/22/99	20,000	0.01252	0.12967	100	0.00006	0.00065	150,000	0.09387	0.97253
09/23/99	MW-1	175	952	06/22/99	20,000	0.02921	0.15888	100	0.00015	0.00079	150,000	0.21904	1.19157
09/29/99	MW-1	50	1,002	06/22/99	20,000	0.00834	0.16722	100	0.00004	0.00084	150,000	0.06258	1.25416
11/05/99	MW-1	50	1,052	09/30/99	< 2,500	< 0.00104	< 0.16826	< 25.0	< 0.00001	< 0.00085	30,900	0.01289	1.26705
11/19/99	MW-1	22.5	1,075	09/30/99	< 2,500	< 0.00047	< 0.16873	< 25.0	< 0.00000	< 0.00085	30,900	0.00580	1.27285
11/24/99	MW-1	25	1,100	09/30/99	< 2,500	< 0.00052	< 0.16925	< 25.0	< 0.00001	< 0.00086	30,900	0.00645	1.27930

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
12/02/99	MW-1	25	1,125	09/30/99	< 2,500	< 0.00052	< 0.16978	< 25.0	< 0.00001	< 0.00086	30,900	0.00645	1.28574
12/17/99	MW-1	25	1,150	12/10/99	< 50.0	< 0.00001	< 0.16979	29.7	0.00001	< 0.00087	76,300	0.01592	1.30166
01/03/00	MW-1	40	1,190	12/10/99	< 50.0	< 0.00002	< 0.16980	29.7	0.00001	< 0.00088	76,300	0.02547	1.32713
01/07/00	MW-1	0	1,190	12/10/99	< 50.0	< 0.00000	< 0.16980	29.7	0.00000	< 0.00088	76,300	0.00000	1.32713
01/13/00	MW-1	45	1,235	12/10/99	< 50.0	< 0.00002	< 0.16982	29.7	0.00001	< 0.00089	76,300	0.02865	1.35578
01/12/00	MW-1	35	1,270	12/10/99	< 50.0	< 0.00001	< 0.16984	29.7	0.00001	< 0.00090	76,300	0.02228	1.37806
01/25/00	MW-1	35	1,305	12/10/99	< 50.0	< 0.00001	< 0.16985	29.7	0.00001	< 0.00091	76,300	0.02228	1.40034
02/01/00	MW-1	22	1,327	12/10/99	< 50.0	< 0.00001	< 0.16986	29.7	0.00001	< 0.00091	76,300	0.01401	1.41435
02/11/00	MW-1	28	1,355	12/10/99	< 50.0	< 0.00001	< 0.16987	29.7	0.00001	< 0.00092	76,300	0.01783	1.43218
02/15/00	MW-1	25	1,380	12/10/99	< 50.0	< 0.00001	< 0.16988	29.7	0.00001	< 0.00092	76,300	0.01592	1.44809
02/23/00	MW-1	20	1,400	12/10/99	< 50.0	< 0.00001	< 0.16989	29.7	0.00000	< 0.00093	76,300	0.01273	1.46083
03/02/00	MW-1	7.5	1,407	03/02/00	< 2,500	< 0.00016	< 0.17005	< 25.0	< 0.00000	< 0.00093	27,600	0.00173	1.46255
03/10/00	MW-1	40	1,447	03/02/00	< 2,500	< 0.00083	< 0.17088	< 25.0	< 0.00001	< 0.00094	27,600	0.00921	1.47177
03/15/00	MW-1	25	1,472	03/02/00	< 2,500	< 0.00052	< 0.17140	< 25.0	< 0.00001	< 0.00094	27,600	0.00576	1.47752
03/21/00	MW-1	25	1,497	03/02/00	< 2,500	< 0.00052	< 0.17193	< 25.0	< 0.00001	< 0.00095	27,600	0.00576	1.48328
03/27/00	MW-1	30	1,527	03/02/00	< 2,500	< 0.00063	< 0.17255	< 25.0	< 0.00001	< 0.00096	27,600	0.00691	1.49019
04/07/00	MW-1	45	1,572	03/02/00	< 2,500	< 0.00094	< 0.17349	< 25.0	< 0.00001	< 0.00097	27,600	0.01036	1.50056
04/13/00	MW-1	30	1,602	03/02/00	< 2,500	< 0.00063	< 0.17412	< 25.0	< 0.00001	< 0.00097	27,600	0.00691	1.50746
04/20/00	MW-1	25	1,627	03/02/00	< 2,500	< 0.00052	< 0.17464	< 25.0	< 0.00001	< 0.00098	27,600	0.00576	1.51322
04/26/00	MW-1	25	1,652	03/02/00	< 2,500	< 0.00052	< 0.17516	< 25.0	< 0.00001	< 0.00098	27,600	0.00576	1.51898
05/04/00	MW-1	28	1,680	03/02/00	< 2,500	< 0.00058	< 0.17574	< 25.0	< 0.00001	< 0.00099	27,600	0.00645	1.52543
05/09/00	MW-1	45	1,725	03/02/00	< 2,500	< 0.00094	< 0.17668	< 25.0	< 0.00001	< 0.00100	27,600	0.01036	1.53579
05/17/00	MW-1	27	1,752	03/02/00	< 2,500	< 0.00056	< 0.17724	< 25.0	< 0.00001	< 0.00100	27,600	0.00622	1.54201
05/22/00	MW-1	25	1,777	03/02/00	< 2,500	< 0.00052	< 0.17777	< 25.0	< 0.00001	< 0.00101	27,600	0.00576	1.54777
06/01/00	MW-1	25	1,802	03/02/00	< 2,500	< 0.00052	< 0.17829	< 25.0	< 0.00001	< 0.00101	27,600	0.00576	1.55353
06/06/00	MW-1	175	1,977	03/02/00	< 2,500	< 0.00365	< 0.18194	< 25.0	< 0.00004	< 0.00105	27,600	0.04030	1.59383
06/08/00	MW-1	43	2,020	03/02/00	< 2,500	< 0.00090	< 0.18284	< 25.0	< 0.00001	< 0.00106	27,600	0.00990	1.60373
06/15/00	MW-1	29	2,049	06/08/00	< 2,000	< 0.00048	< 0.18332	< 20.0	< 0.00000	< 0.00106	67,600	0.01636	1.62009
07/10/00	MW-1	169	2,218	06/08/00	< 2,000	< 0.00282	< 0.18614	< 20.0	< 0.00003	< 0.00109	67,600	0.09533	1.71542

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	<u>TPPH</u>			<u>Benzene</u>			<u>MTBE</u>		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE To Date (pounds)
09/07/00	MW-1	100	2,318	09/05/00	< 10,000	< 0.00834	< 0.19448	411	0.00034	< 0.00144	115,000	0.09596	1.81138
10/23/00*	MW-1	100	2,418	09/05/00	< 10,000	< 0.00834	< 0.20283	411	0.00034	< 0.00178	71,100	0.05933	1.87071
11/30/00	MW-1	160	2,578	09/05/00	< 10,000	< 0.01335	< 0.21618	411	0.00055	< 0.00233	71,100	0.09493	1.96563
12/21/00	MW-1	125	2,703	09/05/00	< 10,000	< 0.01043	< 0.22661	411	0.00043	< 0.00276	71,100	0.07416	2.03979
07/29/99	MW-3	100	100	06/22/99	58,000	0.04840	0.04840	6,600	0.00551	0.00551	653,000	0.54489	0.54489
08/04/99	MW-3	100	200	06/22/99	58,000	0.04840	0.09679	6,600	0.00551	0.01101	653,000	0.54489	1.08977
08/11/99	MW-3	45	245	06/22/99	58,000	0.02178	0.11857	6,600	0.00248	0.01349	653,000	0.24520	1.33497
08/20/99	MW-3	55	300	06/22/99	58,000	0.02662	0.14519	6,600	0.00303	0.01652	653,000	0.29969	1.63466
08/30/99	MW-3	77	377	06/22/99	58,000	0.03727	0.18246	6,600	0.00424	0.02076	653,000	0.41956	2.05422
09/03/99*	MW-3	50	427	06/22/99	58,000	0.02420	0.20666	6,600	0.00275	0.02352	653,000	0.27244	2.32667
09/10/99*	MW-3	40	467	06/22/99	58,000	0.01936	0.22602	6,600	0.00220	0.02572	653,000	0.21795	2.54462
09/23/99	MW-3	10	477	06/22/99	58,000	0.00484	0.23085	6,600	0.00055	0.02627	653,000	0.05449	2.59911
09/29/99	MW-3	50	527	06/22/99	58,000	0.02420	0.25505	6,600	0.00275	0.02902	653,000	0.27244	2.87155
11/05/99	MW-3	50	577	09/30/99	4,360	0.00182	0.25687	121	0.00005	0.02907	35,600	0.01485	2.88640
11/19/99	MW-3	22.5	600	09/30/99	4,360	0.00082	0.25769	121	0.00002	0.02910	35,600	0.00668	2.89309
11/24/99	MW-3	28	628	09/30/99	4,360	0.00102	0.25871	121	0.00003	0.02912	35,600	0.00832	2.90141
12/02/99	MW-3	25	653	09/30/99	4,360	0.00091	0.25962	121	0.00003	0.02915	35,600	0.00743	2.90883
12/17/99	MW-3	35	688	12/10/99	4,220	0.00123	0.26085	973	0.00028	0.02943	88,200	0.02576	2.93459
01/03/00	MW-3	40	728	12/10/99	4,220	0.00141	0.26226	973	0.00032	0.02976	88,200	0.02944	2.96403
01/07/00	MW-3	0	728	12/10/99	4,220	0.00000	0.26226	973	0.00000	0.02976	88,200	0.00000	2.96403
01/13/00	MW-3	45	773	12/10/99	4,220	0.00158	0.26385	973	0.00037	0.03012	88,200	0.03312	2.99715
01/21/00	MW-3	35	808	12/10/99	4,220	0.00123	0.26508	973	0.00028	0.03041	88,200	0.02576	3.02291
01/25/00	MW-3	38	846	12/10/99	4,220	0.00134	0.26642	973	0.00031	0.03072	88,200	0.02797	3.05088
02/01/00	MW-3	23	869	12/10/99	4,220	0.00081	0.26723	973	0.00019	0.03090	88,200	0.01693	3.06780
02/11/00	MW-3	22	891	12/10/99	4,220	0.00077	0.26800	973	0.00018	0.03108	88,200	0.01619	3.08399
02/15/00	MW-3	22	913	12/10/99	4,220	0.00077	0.26877	973	0.00018	0.03126	88,200	0.01619	3.10019
02/23/00	MW-3	30	943	12/10/99	4,220	0.00106	0.26983	973	0.00024	0.03150	88,200	0.02208	3.12226
03/02/00	MW-3	7	950	03/02/00	65,300	0.00381	0.27365	5,210	0.00030	0.03181	59,800	0.00349	3.12576

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date Purged	Well ID	Volume Pumped (gal)	Cumulative Volume Pumped (gal)	Date Sampled	TPPH			Benzene			MTBE		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
03/10/00	MW-3	42	992	03/02/00	65,300	0.02289	0.29653	5,210	0.00183	0.03363	59,800	0.02096	3.14672
03/15/00	MW-3	20	1,012	03/02/00	65,300	0.01090	0.30743	5,210	0.00087	0.03450	59,800	0.00998	3.15670
03/21/00	MW-3	25	1,037	03/02/00	65,300	0.01362	0.32105	5,210	0.00109	0.03559	59,800	0.01247	3.16917
03/27/00	MW-3	40	1,077	03/02/00	65,300	0.02180	0.34285	5,210	0.00174	0.03733	59,800	0.01996	3.18913
04/07/00	MW-3	45	1,122	03/02/00	65,300	0.02452	0.36737	5,210	0.00196	0.03929	59,800	0.02245	3.21158
04/13/00	MW-3	30	1,152	03/02/00	65,300	0.01635	0.38371	5,210	0.00130	0.04059	59,800	0.01497	3.22655
04/20/00	MW-3	25	1,177	03/02/00	65,300	0.01362	0.39733	5,210	0.00109	0.04168	59,800	0.01247	3.23903
04/26/00	MW-3	30	1,207	03/02/00	65,300	0.01635	0.41368	5,210	0.00130	0.04298	59,800	0.01497	3.25400
05/04/00	MW-3	26	1,233	03/02/00	65,300	0.01417	0.42785	5,210	0.00113	0.04411	59,800	0.01297	3.26697
05/09/00	MW-3	45	1,278	03/02/00	65,300	0.02452	0.45237	5,210	0.00196	0.04607	59,800	0.02245	3.28943
05/17/00	MW-3	27	1,305	03/02/00	65,300	0.01471	0.46708	5,210	0.00117	0.04724	59,800	0.01347	3.30290
05/22/00	MW-3	25	1,330	03/02/00	65,300	0.01362	0.48070	5,210	0.00109	0.04833	59,800	0.01247	3.31537
06/01/00	MW-3	25	1,355	03/02/00	65,300	0.01362	0.49432	5,210	0.00109	0.04942	59,800	0.01247	3.32785
06/06/00	MW-3	240	1,595	03/02/00	65,300	0.13077	0.62510	5,210	0.01043	0.05985	59,800	0.11976	3.44761
06/08/00	MW-3	42	1,637	03/02/00	65,300	0.02289	0.64798	5,210	0.00183	0.06168	59,800	0.02096	3.46857
06/15/00	MW-3	29	1,666	06/08/00	72,700	0.01759	0.66557	3,570	0.00086	0.06254	44,400	0.01074	3.47931
07/10/00	MW-3	101	1,767	06/08/00	72,700	0.06127	# 0.72684	3,570	0.00301	0.06555	44,400	0.03742	3.51673
09/07/00	MW-3	265	2,032	09/05/00	26,100	0.05771	# 0.78456	959	0.00212	0.06767	24,000	0.05307	3.56980
10/23/00*	MW-3	250	2,282	09/05/00	26,100	0.05445	# 0.83901	959	0.00200	0.06967	24,000	0.05007	3.61987
11/30/00	MW-3	210	2,492	09/05/00	26,100	0.04574	# 0.88474	959	0.00168	0.07135	24,000	0.04206	3.66192
12/21/00	MW-3	150	2,642	09/05/00	26,100	0.03267	# 0.91741	959	0.00120	0.07255	24,000	0.03004	3.69196
Total Gallons Extracted:		38,893		Total Pounds Removed:			< 1.19865			< 0.07559			7.55763
				Total Gallons Removed:			< 0.19650			< 0.01036			1.21897

Table 1: Groundwater Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date	Well	Volume Pumped	Cumulative Volume Pumped	Date Sampled	<u>TPPH</u>			<u>Benzene</u>			<u>MTBE</u>		
					TPPH Concentration (ppb)	TPPH Removed (pounds)	TPPH Removed To Date (pounds)	Benzene Concentration (ppb)	Benzene Removed (pounds)	Benzene Removed To Date (pounds)	MTBE Concentration (ppb)	MTBE Removed (pounds)	MTBE Removed To Date (pounds)
Purged	ID	(gal)	(gal)										

Abbreviations & Notes:

TPPH = Total purgeable hydrocarbons as gasoline

MtBE = Methyl tert-butyl ether

µg/L = Micrograms per liter

ppb = Parts per billion, equivalent to µg/L

L = Liter

gal = Gallon

g = Gram

* = Ground water extracted per well estimated; subcontractor did not report individual well volumes

Mass removed based on the formula: volume extracted (gal) x Concentration (µg/L) x (g/10⁶µg) x (pound/453.6g) x (3.785 L/gal)

Volume removal data based on the formula: density (in gms/cc) x 9.339 (ccxlbs/gmsxgals)

TPPH, benzene analyzed by EPA Method 8015/8020

MTBE analyzed by EPA Method 8260 in bold font, all other MTBE analyzed by EPA Method 8020

Concentrations based on most recent groundwater monitoring results

Groundwater extracted by vacuum trucks provided by ACTI. Water disposed of at a Martinez Refinery.

Table 2: Vapor Extraction - Mass Removal Data - Shell-branded Service Station, Incident #98995752, 540 Hegenberger Road, Oakland, California

Date	Well ID	Interval Hours of Operation (hours)	System Flow Rate (CFM)	Hydrocarbon Concentrations			TPHg		Benzene		MTBE	
				TPHg	Benzene	MTBE	TPHg Removal Rate (#/hour)	Cumulative TPHg Removed (#)	Benzene Removal Rate (#/hour)	Cumulative Benzene Removed (#)	MTBE Removal Rate (#/hour)	Cumulative MTBE Removed (#)
				(Concentrations in ppmv)								
06/06/00	MW-1	3.63	12.76	4.4	0.192	20.7	0.001	0.003	0.000	0.000	0.004	0.013
07/10/00	MW-1	3.00	11	<28	<0.31	30	<0.004	<0.015	<0.000	<0.000	0.005	0.027
09/07/00	MW-1	2.00	2.4	25.4	2.51	138	0.001	<0.017	0.000	<0.000	0.005	0.036
10/23/00	MW-1	2.62	0.7	1,650	61.6	392	0.015	<0.057	0.001	<0.002	0.004	0.046
11/30/00	MW-1	4.00	7.0	561	<1.57	62.8	0.052	<0.267	0.000	<0.002	0.006	0.070
12/21/00	MW-1	2.00	2.1	<2,838	<0.031	<0.277	0.000	<0.267	0.000	<0.002	0.000	0.070
06/06/00	MW-3	5.67	9.35	1,371	27.6	32	0.171	0.972	0.003	0.018	0.004	0.023
07/10/00	MW-3	2.00	11	564	8.9	76	0.083	1.137	0.001	0.020	0.011	0.046
09/07/00	MW-3	3.92	4.7	2,832	109	244	0.178	1.835	0.006	0.044	0.016	0.108
10/23/00	MW-3	3.62	1.4	3,040	45.6	323	0.057	2.041	0.001	0.047	0.006	0.130
11/30/00	MW-3	2.00	2.5	23,800	59.9	974	0.795	3.632	0.002	0.051	0.033	0.197
12/21/00	MW-3	4.50	3.0	<2,838	<0.031	<0.277	0.000	3.632	0.000	0.051	0.000	0.197
Total Pounds Removed:							TPHg = < 3.900		Benzene = < 0.053		MTBE = 0.266	

Abbreviations and Notes:

CFM = Cubic feet per minute

TPHg = Total petroleum hydrocarbons as gasoline (C6-C12) by modified EPA Method 8015 in 1 liter tedlar bag samples

ppmv = Parts per million by volume

= Pounds

TPHG, Benzene, and MTBE analyzed by EPA Method 8015/8020 in 1 liter tedlar bag samples

TPHg / Benzene / MTBE removal rate = Rate based on Bay Area Air Quality Management District's Manual of Procedures for Soil Vapor Extraction dated July 17, 1991.

(Rate = Concentration (ppmv) x system flow rate (cfm) x (1lb-mole/386ft³) x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene, 88 lb/lb-mole for MTBE) x 60 min/hour x 1/1,000,000)

Cumulative TPHg / Benzene / MTBE removal = Previous removal rate multiplied by the hour-interval of operation plus the previous total

Table 4. Soil Chemical Analytical Data - Shell-branded Service Station Incident # 98995752, 540 Hegenberger Road, Oakland, California

Sample ID	Date	TPHg	TPHd	Benzene	Toluene Ethylbenzene Xylenes (Concentrations in mg/kg)			MTBE EPA 8020	MTBE EPA 8260
					←		→		
SB-E-5.5	8/29/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	0.441	0.481
SB-E-10.5	8/29/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	0.248	0.0971
SB-E-15.5	8/29/00	<5.00	<5.00	<0.0250	<0.0250	<0.0250	<0.0250	1.83	1.86
SB-E-20.5	8/29/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	
SB-E-25.5	8/29/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	
SB-F-5.5	8/29/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	0.0727	*
SB-F-10.5	8/29/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	0.0551	<0.00500
SG-G-5.5	8/29/00	2.19	<5.00	<0.00500	<0.00500	0.132	0.258	0.141	0.0505
SG-G-10.5	8/29/00	468	108 d	<0.250	1.88	7.05	26.9	<2.50	
MW-4-5.5	9/5/00	<1.00	31.7	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	
MW-4-10.5	9/5/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	
MW-4-15.5	9/5/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	
MW-4-19.0	9/5/00	<1.00	<5.00	<0.00500	<0.00500	<0.00500	<0.00500	<0.0500	

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
 TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015 with silica gel clean-up
 Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8020
 MTBE = Methyl tertiary butyl ether by modified EPA Method 8020 and 8260B
 mg/kg = milligrams per kilogram
 <n = Below detection limit of n mg/kg
 * = MTBE not confirmed due to lab error.
 d = Results in the diesel organics are elevated due to overlap from higher boiling point hydrocarbons

CAMBRIA

Table 5. Soil Physical Analytical Data - Shell -branded service station, Incident # 98995752, 540 Hegenberger Road, Oakland, Cal:

Sample ID	Date	Total Organic Carbon (mg/kg)	Percent Moisture (%)	Bulk Density (lbs/cuft)	Total Porosity (%)
SBP-F-6.0	8/29/00	842	16.76	94.8	36.7
SBP-G-6.0	8/29/00	13263	25.31	85.4	50.6
MW-4P-11.0	9/5/00	3105	22.70	86.5	NA

Abbreviations and Notes:

Fraction organic carbon by EPA Method 415.1

Percent Moisture by EPA Method 160.3

Bulk Density by API RP-40

Total porosity by API RP-40

NA = Not Analyzed

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Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
1	2S/3W 22N	02/06/91	Edes Avenue Senior Housing	UNK	15	N/A	N/A
2	2S/3W 22E7	12/14/89	Carolyn Ratcliff	MONIT	15	5- 14.5	0- 4
3	2S/3W 22E7	12/13/89	Carolyn Ratcliff	MONIT	20	10- 19.5	0- 8
4	2S/3W 22E7	12/15/89	Carolyn Ratcliff	MONIT	18	8- 17.5	0- 6
5	2S/3W 22E7	12/14/89	Carolyn Ratcliff	MONIT	18	8- 17.5	0- 6
6	2S/3W 22E7	12/13/89	Carolyn Ratcliff	MONIT	19.5	10- 19	0- 8
7	2S/3W 22E7	12/14/89	Carolyn Ratcliff	MONIT	19.5	10- 19	0- 8
8	2S/3W 21Q08	09/13/92	Union Bank	MONIT	20	4- 19	0- 4
9	2S/3W 21Q09	09/13/92	Union Bank	MONIT	16.5	4- 14	0- 4
10	2S/3W 21Q10	09/13/92	Union Bank	MONIT	20	5- 20	0- 4
11	2S/3W 21R2	04/25/88	IMO Delaval, Inc.	MONIT	28	12-26.5	0- 10
21	2S/3W 21R16	03/11/89	IMO Delaval, Inc.	MONIT	26.5	15-25	0.5-15
13	2S/3W 21R17	03/12/89	IMO Delaval, Inc.	MONIT	27	15-25	0.5-15
14	2S/3W21	10/29/52	General Metals Corporation	IND	600	200-584	N/A
15	2S/3W21L05	09/10/92	Ryder Truck Rental Inc.	MONIT	13.5	3.5-13.0	0-3.5
16	2S/3W21L06	09/10/92	Ryder Truck Rental Inc.	MONIT	13.5	3.5-13.0	0-3.5
17	2S/3W21L07	09/14/92	Ryder Truck Rental Inc.	MONIT	13.5	3.5-13.0	0-3.5
18	2S/3W21M1	07/06/91	BOC Group	MONIT	21	7-17	0-7
19	2S/3W21K1	04/25/90	Motel 6	MONIT	30	5-30	0-5
20	2S/3W21L1	01/17/91	IMO Delaval, Inc.	N/A	32	2-30	0-20
21	2S/3W21L2	11/09/92	Superior Tile Company	MONIT	19	4-19	0.5-4
22	2S/3W21L3	11/09/92	Superior Tile Company	MONIT	15	4-14	0.5-4
23	2S/3W21L4	11/09/92	Superior Tile Company	MONIT	14	4-14	0.5-4
24	2S/3W21L4	11/09/92	Motel 6	MONIT	11.5	N/A	0-11.5
25	2S/3W21L4	11/09/92	Motel 6	MONIT	21.5	N/A	0-21.5

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
26	2S/3W21D1	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
27	2S/3W21E1	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
28	2S/3W21E2	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
29	2S/3W21B1	09/30/93	Morris Properties	MONIT	20	5-20	0-5
30	2S/3W21A1	09/19/89	Monterey Mechanical	MONIT	25	9-25	0-9
31	2S/3W21A2	06/24/93	Mr. Nissan Saidan	MONIT	15	3-15	0-3
32	2S/3W21R	N/A	Stonehurst Nursery	REM	17	7-17	0-7
33	2S/3W21H11	02/19/92	Stephen Block	MONIT	17	7-17	0-7
34	2S/3W21H9	04/25/91	West Coast Wire Rope	MONIT	17.5	3-17.5	0-3
35	2S/3W21H10	04/25/91	West Coast Wire Rope	MONIT	20	3-20	0-3
36	2S/3W21H7	07/07/89	Ran Rob, Inc.	MONIT	16.5	5-16	0-5
37	2S/3W21H5	07/07/89*	Ran Rob, Inc.	DEST	36	N/A	N/A
38	2S/3W21H6	07/17/89	Ran Rob, Inc.	MONIT	36	26-36	0-26
39	2S/3W21G17	07/09/92	ARCO Products Company	MONIT	16.5	8-16.5	0-8
40	2S/3W21G15	07/10/92	ARCO Products Company	MONIT	15	9-15	0-9
41	2S/3W21G1	10/30/89	ARCO Products Company	MONIT	23	13-23	0-13
42	2S/3W21G2	06/07/89	ARCO Products Company	MONIT	21.5	14-18	0-14
43	2S/3W21H1	07/22/88	Lincoln Property co.	MONIT	16	6-16	0-6
44	2S/3W21H2	07/22/88	Lincoln Property co.	MONIT	13	5-10.5	0-4 & 10.5-13
45	2S/3W21H3	07/22/88	Lincoln Property co.	MONIT	16	6-16	0-5
46	2S/3W21H5	07/22/88	Lincoln Property co.	MONIT	18	8-18	0-6
47	2S/3W21D2	03/12/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
48	2S/3W21D3	03/13/92	Ryder Truck Rental Inc.	MONIT	14	4.5-14	0-4.5
49	2S/3W21D4	03/13/92	Ryder Truck Rental Inc.	MONIT	14.5	4.5-14.5	0-4.5
50	2S/3W21D5	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
51	2S/3W21D6	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
52	2S/3W21D7	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
53	2S/3W21C2	09/21/89	Malibu Fun Center	MONIT	20	4-15	0-4
54	2S/3W21C4	09/20/89	Malibu Fun Center	MONIT	15	4-19	0-4
55	2S/3W21C3	09/20/89	Malibu Fun Center	MONIT	17	5-15	0-5 & 15-17
56	2S/3W21C1	09/20/89	Malibu Fun Center	MONIT	10.5	5-10.5	0-5
57	2S/3W21C5	06/12/90	Malibu Fun Center	MONIT	19.5	5-19.5	0-5
58	2S/3W21C6	06/12/90	Malibu Fun Center	MONIT	19	4-19	0-4
59	2S/3W21C7	06/12/90	Malibu Fun Center	MONIT	19.5	4.5-19.5	0-4.5
60	2S/3W21C8	06/13/90	Malibu Fun Center	MONIT	19.5	4.5-19.5	0-4.5
61	2S/3W21C9	06/13/90	Malibu Fun Center	MONIT	10	4.5-10	0-4.5
62	2S/3W21C10	06/13/90	Malibu Fun Center	MONIT	19	4-19	0-4
63	2S/3W21C (B6)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
64	2S/3W21C (B7)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
65	2S/3W21C (B8)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
66	2S/3W21C (B9)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
67	2S/3W21C (B10)	06/13/90	Malibu Fun Center	SB	5	N/A	0-7
68	2S/3W21C (B11)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
69	2S/3W21C (B12)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
70	2S/3W21C (B13)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
71	2S/3W21C (B14)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
72	2S/3W21C (B15)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
73	2S/3W21C (B16)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
74	2S/3W21C (B17)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
75	2S/3W21C11	08/28/91	Malibu Fun Center	MONIT	14	3.5-14	0-3.5

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
76	2S/3W21C12	08/28/91	Malibu Fun Center	MONIT	21.5	4.5-20	0-4.5 & 20-21.5
77	2S/3W21C13	08/28/91	Malibu Fun Center	MONIT	20	5-20	0-5
78	2S/3W21C14	08/27/91	Malibu Fun Center	MONIT	20	4-20	0-4
79	2S/3W21C15	08/29/91	Malibu Fun Center	MONIT	19	4-19	0-4
80	2S/3W21C16	08/29/91	Malibu Fun Center	MONIT	18.5	3.5-18.5	0-3.5
81	2S/3W21C17	08/30/91	Malibu Fun Center	MONIT	18.5	3.5-18.5	0-3.5
82	2S/3W21C18	08/29/91	Malibu Fun Center	MONIT	21	6-21	0-6
83	2S/3W21E3	04/02/91	Travelers Companies	TEST	12.5	4-12.5	0-4
84	2S/3W21E (B1)	N/A	City of Oakland	SB	36.5	N/A	N/A
85	2S/3W21E (B2)	N/A	City of Oakland	SB	32.5	N/A	N/A
86	2S/3W21D9	02/12/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
87	2S/3W21D10	02/12/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
88	2S/3W21D11	02/13/92	Grand Auto Distribution Center	MONIT	19.5	5-19	0-5
89	2S/3W21D12	02/11/92	Grand Auto Distribution Center	MONIT	20	5.5-19.5	0-5.5
90	2S/3W21D13	02/14/92	Grand Auto Distribution Center	MONIT	34.5	20-34	0-20
91	2S/3W21D14	02/11/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
92	2S/3W21D8	02/13/92*	Grand Auto Distribution Center	DEST	N/A	N/A	N/A
93	2S/3W21J3	01/27/88	IMO Delaval	MONIT	23	8-23	0-8
94	2S/3W21J4	01/26/88	IMO Delaval	MONIT	30	15-30	0-15
95	2S/3W21J5	01/25/88	IMO Delaval	MONIT	36	26-36	0-26
96	2S/3W21J6	01/25/88	IMO Delaval	MONIT	30	20-30	0-20
97	2S/3W21J (SB1a)	N/A	IMO Delaval	SB	26.5	N/A	0-26.5
98	2S/3W21J35	11/19/89	IMO Delaval	MONIT	55	45-55	0-45
99	2S/3W21J20	04/21/89	IMO Delaval	TEST	27.5	22.5-27.5	0-22.5
100	2S/3W21J21	04/21/89	IMO Delaval	MONIT	39	14-39	0-14

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
101	2S/3W21J22	04/22/89	IMO Delaval	MONIT	23	13-23	0-13
102	2S/3W21J16	04/17/89	IMO Delaval	MONIT	22	12-22	0-12
103	2S/3W21J17	04/17/89	IMO Delaval	MONIT	24	14-24	14-Mar
104	2S/3W21J18	04/18/89	IMO Delaval	MONIT	32	12-32	12-Mar
105	2S/3W21J19	04/18/89	IMO Delaval	MONIT	21.5	12.5-17.5	2.5-12.5 & 17.5-21.5
106	2S/3W21J7	04/20/89	IMO Delaval	MONIT	30.5	15-30.5	0-15
107	2S/3W21J8	04/21/89*	IMO Delaval	DEST	34	N/A	N/A
108	2S/3W21J9	04/21/89	IMO Delaval	MONIT	32	17-32	0-17
109	2S/3W21J10	04/25/89	IMO Delaval	MONIT	34	19-34	0-19
110	2S/3W21N1	11/16/89	IMO Delaval	N/A	30	20-30	0-20
111	2S/3W21P2	11/16/89	IMO Delaval	N/A	29.5	19.5-29.5	19.5
112	2S/3W21Q1	11/20/89	IMO Delaval	N/A	46.5	43.5-46.5	0-43.5
113	2S/3W21H8	04/18/91	IMO Delaval	N/A	20	3-20	0-3
114	2S/3W21J1	08/14/79*	IMO Delaval	DEST	250	N/A	N/A
115	2S/3W21J2	06/16/76	Delaval Tirbine, Inc.	IND	430	130-240	0-130 & 240-430
116	2S/3W21Q2	02/05/91	Unocal Corporation	MONIT	13	2-13	0-2
117	2S/3W21Q3	02/05/91	Unocal Corporation	MONIT	15	3-15	0-3
118	2S/3W21Q4	02/05/91	Unocal Corporation	MONIT	14	2-14	0-2
119	2S/3W21Q5	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5
120	2S/3W21Q6	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5
121	2S/3W21Q7	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
<u>Abbreviations:</u>			<u>Notes:</u>				
UNK = Unknown			All well data was supplied by the California Department of Water Resources				
MONIT = Monitoring Well			Wells 26, 27, and 28 are not located on the half-mile well vicinity map				
IND = Industrial well			Wells 1 & 32: addresses unknown				
REM = Remediation							
DEST = Destroyed well							
SB = Soil Borings							
DOM = Domestic well							
IRR = Irrigation well							
TEST = Test well							
MUNI = Municipal supply well							
* = Well destruction date							
N/A = Not available							

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
26	2S/3W21D1	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
27	2S/3W21E1	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
28	2S/3W21E2	08/16/90	Port of Oakland	MONIT	16	4-15	0-4
29	2S/3W21B1	09/30/93	Morris Properties	MONIT	20	5-20	0-5
30	2S/3W21A1	09/19/89	Monterey Mechanical	MONIT	25	9-25	0-9
31	2S/3W21A2	06/24/93	Mr. Nissan Saidan	MONIT	15	3-15	0-3
32	2S/3W21R	N/A	Stonehurst Nursery	REM	17	7-17	0-7
33	2S/3W21H11	02/19/92	Stephen Block	MONIT	17	7-17	0-7
34	2S/3W21H9	04/25/91	West Coast Wire Rope	MONIT	17.5	3-17.5	0-3
35	2S/3W21H10	04/25/91	West Coast Wire Rope	MONIT	20	3-20	0-3
36	2S/3W21H7	07/07/89	Ran Rob, Inc.	MONIT	16.5	5-16	0-5
37	2S/3W21H5	07/07/89*	Ran Rob, Inc.	DEST	36	N/A	N/A
38	2S/3W21H6	07/17/89	Ran Rob, Inc.	MONIT	36	26-36	0-26
39	2S/3W21G17	07/09/92	ARCO Products Company	MONIT	16.5	8-16.5	0-8
40	2S/3W21G15	07/10/92	ARCO Products Company	MONIT	15	9-15	0-9
41	2S/3W21G1	10/30/89	ARCO Products Company	MONIT	23	13-23	0-13
42	2S/3W21G2	06/07/89	ARCO Products Company	MONIT	21.5	14-18	0-14
43	2S/3W21H1	07/22/88	Lincoln Property co.	MONIT	16	6-16	0-6
44	2S/3W21H2	07/22/88	Lincoln Property co.	MONIT	13	5-10.5	0-4 & 10.5-13
45	2S/3W21H3	07/22/88	Lincoln Property co.	MONIT	16	6-16	0-5
46	2S/3W21H5	07/22/88	Lincoln Property co.	MONIT	18	8-18	0-6
47	2S/3W21D2	03/12/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
48	2S/3W21D3	03/13/92	Ryder Truck Rental Inc.	MONIT	14	4.5-14	0-4.5
49	2S/3W21D4	03/13/92	Ryder Truck Rental Inc.	MONIT	14.5	4.5-14.5	0-4.5
50	2S/3W21D5	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
51	2S/3W21D6	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
52	2S/3W21D7	04/28/92	Ryder Truck Rental Inc.	MONIT	15	5-15	0-5
53	2S/3W21C2	09/21/89	Malibu Fun Center	MONIT	20	4-15	0-4
54	2S/3W21C4	09/20/89	Malibu Fun Center	MONIT	15	4-19	0-4
55	2S/3W21C3	09/20/89	Malibu Fun Center	MONIT	17	5-15	0-5 & 15-17
56	2S/3W21C1	09/20/89	Malibu Fun Center	MONIT	10.5	5-10.5	0-5
57	2S/3W21C5	06/12/90	Malibu Fun Center	MONIT	19.5	5-19.5	0-5
58	2S/3W21C6	06/12/90	Malibu Fun Center	MONIT	19	4-19	0-4
59	2S/3W21C7	06/12/90	Malibu Fun Center	MONIT	19.5	4.5-19.5	0-4.5
60	2S/3W21C8	06/13/90	Malibu Fun Center	MONIT	19.5	4.5-19.5	0-4.5
61	2S/3W21C9	06/13/90	Malibu Fun Center	MONIT	10	4.5-10	0-4.5
62	2S/3W21C10	06/13/90	Malibu Fun Center	MONIT	19	4-19	0-4
63	2S/3W21C (B6)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
64	2S/3W21C (B7)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
65	2S/3W21C (B8)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
66	2S/3W21C (B9)	06/12/90	Malibu Fun Center	SB	10	N/A	0-10
67	2S/3W21C (B10)	06/13/90	Malibu Fun Center	SB	5	N/A	0-7
68	2S/3W21C (B11)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
69	2S/3W21C (B12)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
70	2S/3W21C (B13)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
71	2S/3W21C (B14)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
72	2S/3W21C (B15)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
73	2S/3W21C (B16)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
74	2S/3W21C (B17)	06/13/90	Malibu Fun Center	SB	7	N/A	0-7
75	2S/3W21C11	08/28/91	Malibu Fun Center	MONIT	14	3.5-14	0-3.5

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
76	2S/3W21C12	08/28/91	Malibu Fun Center	MONIT	21.5	4.5-20	0-4.5 & 20-21.5
77	2S/3W21C13	08/28/91	Malibu Fun Center	MONIT	20	5-20	0-5
78	2S/3W21C14	08/27/91	Malibu Fun Center	MONIT	20	4-20	0-4
79	2S/3W21C15	08/29/91	Malibu Fun Center	MONIT	19	4-19	0-4
80	2S/3W21C16	08/29/91	Malibu Fun Center	MONIT	18.5	3.5-18.5	0-3.5
81	2S/3W21C17	08/30/91	Malibu Fun Center	MONIT	18.5	3.5-18.5	0-3.5
82	2S/3W21C18	08/29/91	Malibu Fun Center	MONIT	21	6-21	0-6
83	2S/3W21E3	04/02/91	Travelers Companies	TEST	12.5	4-12.5	0-4
84	2S/3W21E (B1)	N/A	City of Oakland	SB	36.5	N/A	N/A
85	2S/3W21E (B2)	N/A	City of Oakland	SB	32.5	N/A	N/A
86	2S/3W21D9	02/12/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
87	2S/3W21D10	02/12/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
88	2S/3W21D11	02/13/92	Grand Auto Distribution Center	MONIT	19.5	5-19	0-5
89	2S/3W21D12	02/11/92	Grand Auto Distribution Center	MONIT	20	5.5-19.5	0-5.5
90	2S/3W21D13	02/14/92	Grand Auto Distribution Center	MONIT	34.5	20-34	0-20
91	2S/3W21D14	02/11/92	Grand Auto Distribution Center	MONIT	18.5	4-18	0-4
92	2S/3W21D8	02/13/92*	Grand Auto Distribution Center	DEST	N/A	N/A	N/A
93	2S/3W21J3	01/27/88	IMO Delaval	MONIT	23	8-23	0-8
94	2S/3W21J4	01/26/88	IMO Delaval	MONIT	30	15-30	0-15
95	2S/3W21J5	01/25/88	IMO Delaval	MONIT	36	26-36	0-26
96	2S/3W21J6	01/25/88	IMO Delaval	MONIT	30	20-30	0-20
97	2S/3W21J (SB1a)	N/A	IMO Delaval	SB	26.5	N/A	0-26.5
98	2S/3W21J35	11/19/89	IMO Delaval	MONIT	55	45-55	0-45
99	2S/3W21J20	04/21/89	IMO Delaval	TEST	27.5	22.5-27.5	0-22.5
100	2S/3W21J21	04/21/89	IMO Delaval	MONIT	39	14-39	0-14

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
101	2S/3W21J22	04/22/89	IMO Delaval	MONIT	23	13-23	0-13
102	2S/3W21J16	04/17/89	IMO Delaval	MONIT	22	12-22	0-12
103	2S/3W21J17	04/17/89	IMO Delaval	MONIT	24	14-24	14-Mar
104	2S/3W21J18	04/18/89	IMO Delaval	MONIT	32	12-32	12-Mar
105	2S/3W21J19	04/18/89	IMO Delaval	MONIT	21.5	12.5-17.5	2.5-12.5 & 17.5-21.5
106	2S/3W21J7	04/20/89	IMO Delaval	MONIT	30.5	15-30.5	0-15
107	2S/3W21J8	04/21/89*	IMO Delaval	DEST	34	N/A	N/A
108	2S/3W21J9	04/21/89	IMO Delaval	MONIT	32	17-32	0-17
109	2S/3W21J10	04/25/89	IMO Delaval	MONIT	34	19-34	0-19
110	2S/3W21N1	11/16/89	IMO Delaval	N/A	30	20-30	0-20
111	2S/3W21P2	11/16/89	IMO Delaval	N/A	29.5	19.5-29.5	19.5
112	2S/3W21Q1	11/20/89	IMO Delaval	N/A	46.5	43.5-46.5	0-43.5
113	2S/3W21H8	04/18/91	IMO Delaval	N/A	20	3-20	0-3
114	2S/3W21J1	08/14/79*	IMO Delaval	DEST	250	N/A	N/A
115	2S/3W21J2	06/16/76	Delaval Tirbine, Inc.	IND	430	130-240	0-130 & 240-430
116	2S/3W21Q2	02/05/91	Unocal Corporation	MONIT	13	2-13	0-2
117	2S/3W21Q3	02/05/91	Unocal Corporation	MONIT	15	3-15	0-3
118	2S/3W21Q4	02/05/91	Unocal Corporation	MONIT	14	2-14	0-2
119	2S/3W21Q5	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5
120	2S/3W21Q6	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5
121	2S/3W21Q7	08/21/92	Unocal Corporation	MONIT	13.5	2.5-13.5	0-2.5

Table 6. Well Survey - Shell-branded Service Station - Incident# 98995752, 540 Hegenberger Road, Oakland, California

Well #	Well ID (Soil Boring ID)	Installation Date	Owner	Use	Completed Depth (feet)	Screened Interval	Sealed Interval
Abbreviations:			Notes:				
UNK = Unknown			All well data was supplied by the California Department of Water Resources				
MONIT = Monitoring Well			Wells 26, 27, and 28 are not located on the half-mile well vicinity map				
IND = Industrial well			Wells 1 & 32: addresses unknown				
REM = Remediation							
DEST = Destroyed well							
SB = Soil Borings							
DOM = Domestic well							
IRR = Irrigation well							
TEST = Test well							
MUNI = Municipal supply well							
* = Well destruction date							
N/A = Not available							

ATTACHMENT A

Analytical Reports for Groundwater, Soil,
Soil Physical Properties, and Soil Stockpile Samples



Sequoia
Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

08 September 2000

Darryk Ataide
Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland, CA 94608
RE: Equiva Enterprises LLC

Enclosed are the results of analyses for samples received by the laboratory on 30-Aug-00 14:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Stover
Project Manager





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
08-Sep-00 17:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-E-W1	P008657-01	Water	29-Aug-00 00:00	30-Aug-00 14:40
SB-F-W1	P008657-02	Water	29-Aug-00 00:00	30-Aug-00 14:40
SB-G-W1	P008657-03	Water	29-Aug-00 00:00	30-Aug-00 14:40

Sequoia Analytical - Petaluma

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

Richard Stover, Project Manager





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
08-Sep-00 17:04

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-E-W1 (P008657-01) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Gasoline	ND		5000	ug/l	100	0080680	30-Aug-00	30-Aug-00	EPA 8015M/8020M	
Benzene	ND		50.0	"	"	"	"	"	"	
Toluene	ND		50.0	"	"	"	"	"	"	
Ethylbenzene	ND		50.0	"	"	"	"	"	"	
Xylenes (total)	ND		50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	13700		250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		106 %	65-135			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.0 %	65-135			"	"	"	"	
SB-F-W1 (P008657-02) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Gasoline	ND		50.0	ug/l	1	0080680	30-Aug-00	30-Aug-00	EPA 8015M/8020M	
Benzene	ND		0.500	"	"	"	"	"	"	
Toluene	ND		0.500	"	"	"	"	"	"	
Ethylbenzene	ND		0.500	"	"	"	"	"	"	
Xylenes (total)	ND		0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	68.3		2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	65-135			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		89.7 %	65-135			"	"	"	"	
SB-G-W1 (P008657-03) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Gasoline	51100		10000	ug/l	200	0080680	30-Aug-00	30-Aug-00	EPA 8015M/8020M	
Benzene	2080		100	"	"	"	"	"	"	
Toluene	2390		100	"	"	"	"	"	"	
Ethylbenzene	2980		100	"	"	"	"	"	"	
Xylenes (total)	14100		100	"	"	"	"	"	"	
Methyl tert-butyl ether	58400		500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	65-135			"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.3 %	65-135			"	"	"	"	

Richard Stover





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
08-Sep-00 17:04

**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M w/ S.G. Clean-up
Sequoia Analytical - Petaluma**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-E-W1 (P008657-01) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Diesel (C10-C24)	353		50.0	ug/l	1	0080712	31-Aug-00	01-Sep-00	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		79.9 %	50-150			"	"	"	"	
SB-F-W1 (P008657-02) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Diesel (C10-C24)	64.6		50.0	ug/l	1	0080712	31-Aug-00	01-Sep-00	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		86.9 %	50-150			"	"	"	"	
SB-G-W1 (P008657-03) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Diesel (C10-C24)	5780		50.0	ug/l	1	0080712	31-Aug-00	01-Sep-00	EPA 8015M-SVOA	D-08
Surrogate: o-Terphenyl		77.7 %	50-150			"	"	"	"	

Sequoia Analytical - Petaluma

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Richard Stover, Project Manager





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
08-Sep-00 17:04

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-E-W1 (P008657-01) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Methyl tert-butyl ether	17900		250	ug/l	500	0090097	06-Sep-00	07-Sep-00	EPA 8260B	
Surrogate: Dibromofluoromethane		108 %	88-118			"	"	"	"	
SB-F-W1 (P008657-02) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Methyl tert-butyl ether	85.3		2.00	ug/l	4	0090097	06-Sep-00	07-Sep-00	EPA 8260B	
Surrogate: Dibromofluoromethane		110 %	88-118			"	"	"	"	
SB-G-W1 (P008657-03) Water Sampled: 29-Aug-00 00:00 Received: 30-Aug-00 14:40										
Methyl tert-butyl ether	76400		1250	ug/l	2500	0090097	06-Sep-00	07-Sep-00	EPA 8260B	
Surrogate: Dibromofluoromethane		107 %	88-118			"	"	"	"	





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
08-Sep-00 17:04

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080680 - EPA 5030 waters

Blank (0080680-BLK1)

Prepared & Analyzed: 30-Aug-00

Gasoline	ND		50.0	ug/l							
Benzene	ND		0.500	"							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		0.500	"							
Methyl tert-butyl ether	ND		2.50	"							
Surrogate: a,a,a-Trifluorotoluene	339			"	300		113	65-135			
Surrogate: 4-Bromofluorobenzene	284			"	300		94.7	65-135			

Blank (0080680-BLK2)

Prepared & Analyzed: 31-Aug-00

Gasoline	ND		50.0	ug/l							
Benzene	ND		0.500	"							
Toluene	ND		0.500	"							
Ethylbenzene	ND		0.500	"							
Xylenes (total)	ND		0.500	"							
Methyl tert-butyl ether	ND		2.50	"							
Surrogate: a,a,a-Trifluorotoluene	340			"	300		113	65-135			
Surrogate: 4-Bromofluorobenzene	278			"	300		92.7	65-135			

LCS (0080680-BS1)

Prepared & Analyzed: 30-Aug-00

Benzene	87.1		0.500	ug/l	100		87.1	65-135			
Toluene	88.9		0.500	"	100		88.9	65-135			
Ethylbenzene	97.9		0.500	"	100		97.9	65-135			
Xylenes (total)	284		0.500	"	300		94.7	65-135			
Methyl tert-butyl ether	84.9		2.50	"	100		84.9	65-135			
Surrogate: a,a,a-Trifluorotoluene	321			"	300		107	65-135			

LCS (0080680-BS2)

Prepared & Analyzed: 31-Aug-00

Benzene	89.6		0.500	ug/l	100		89.6	65-135			
Toluene	91.1		0.500	"	100		91.1	65-135			
Ethylbenzene	101		0.500	"	100		101	65-135			
Xylenes (total)	295		0.500	"	300		98.3	65-135			
Methyl tert-butyl ether	92.0		2.50	"	100		92.0	65-135			
Surrogate: a,a,a-Trifluorotoluene	327			"	300		109	65-135			

Sequoia Analytical - Petaluma

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Richard Stover, Project Manager





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
08-Sep-00 17:04

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0080680 - EPA 5030 waters

Matrix Spike (0080680-MS1)

Source: P008610-01

Prepared & Analyzed: 30-Aug-00

Benzene	90.6		0.500	ug/l	100	ND	90.6	65-135			
Toluene	92.1		0.500	"	100	ND	92.1	65-135			
Ethylbenzene	102		0.500	"	100	ND	102	65-135			
Xylenes (total)	296		0.500	"	300	ND	98.7	65-135			
Methyl tert-butyl ether	90.8		2.50	"	100	ND	90.1	65-135			
Surrogate: a,a,a-Trifluorotoluene	323			"	300		108	65-135			

Matrix Spike Dup (0080680-MSD1)

Source: P008610-01

Prepared & Analyzed: 30-Aug-00

Benzene	88.1		0.500	ug/l	100	ND	88.1	65-135	2.80	20	
Toluene	89.9		0.500	"	100	ND	89.9	65-135	2.42	20	
Ethylbenzene	99.4		0.500	"	100	ND	99.4	65-135	2.58	20	
Xylenes (total)	288		0.500	"	300	ND	96.0	65-135	2.74	20	
Methyl tert-butyl ether	91.6		2.50	"	100	ND	90.9	65-135	0.877	20	
Surrogate: a,a,a-Trifluorotoluene	314			"	300		105	65-135			

RA





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
08-Sep-00 17:04

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M w/ S.G. Clean-up - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 0080712 - EPA 3510B										
Blank (0080712-BLK1)										
						Prepared: 31-Aug-00 Analyzed: 01-Sep-00				
Diesel (C10-C24)	ND		50.0	ug/l						
Surrogate: o-Terphenyl	86.0			"	100		86.0 50-150			
LCS (0080712-BS1)										
						Prepared: 31-Aug-00 Analyzed: 01-Sep-00				
Diesel (C10-C24)	717		50.0	ug/l	1000		71.7 50-150			
Surrogate: o-Terphenyl	82.4			"	100		82.4 50-150			
LCS Dup (0080712-BSD1)										
						Prepared: 31-Aug-00 Analyzed: 01-Sep-00				
Diesel (C10-C24)	732		50.0	ug/l	1000		73.2 50-150	2.07	20	
Surrogate: o-Terphenyl	84.4			"	100		84.4 50-150			

Sequoia Analytical - Petaluma

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Richard Stover, Project Manager





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland CA, 94608	Project: Equiva Enterprises LLC Project Number: 540 Hegenberger Project Manager: Darryk Ataide	Reported: 08-Sep-00 17:04
--------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------	------------------------------

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0090097 - EPA 5030 waters											
Blank (0090097-BLK1)											
						Prepared & Analyzed: 06-Sep-00					
Methyl tert-butyl ether	ND		0.500	ug/l							
Surrogate: Dibromofluoromethane	5.07			"	5.00		101	88-118			
LCS (0090097-BS1)											
						Prepared & Analyzed: 06-Sep-00					
Methyl tert-butyl ether	5.00		0.500	ug/l	5.00		100	72.7-119			
Surrogate: Dibromofluoromethane	5.25			"	5.00		105	88-118			
Matrix Spike (0090097-MS1)											
						Source: P009072-06 Prepared & Analyzed: 06-Sep-00					
Methyl tert-butyl ether	5.64		0.500	ug/l	5.00	0.690	99.0	72.7-119			
Surrogate: Dibromofluoromethane	5.33			"	5.00		107	88-118			
Matrix Spike Dup (0090097-MSD1)											
						Source: P009072-06 Prepared & Analyzed: 06-Sep-00					
Methyl tert-butyl ether	5.68		0.500	ug/l	5.00	0.690	99.8	72.7-119	0.707	20	
Surrogate: Dibromofluoromethane	5.23			"	5.00		105	88-118			





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
08-Sep-00 17:04

Notes and Definitions

D-08 Results in the diesel organics range are elevated due to overlap from lower boiling point hydrocarbons.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Sequoia Analytical - Petaluma

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Richard Stover, Project Manager





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9800 • FAX (408) 782-6308
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9673
- 1455 McDowell Blvd, North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

NO. 0110 F. 2

Company Name: <i>Equiva Services LLC</i>			Project Name: <i>540 Hegenberger</i>		
Mailing Address: <i>P.O. Box 7869</i>			Billing Address (if different):		
City: <i>Burbank</i>	State: <i>CA</i>	Zip Code: <i>91510-7869</i>			
Telephone: <i>(510) 420-3339</i>		FAX #: <i>(510) 420-9170</i>	P.O. #: <i>242-0414</i>		
Report To: <i>Darryk Ataide</i>		Sampler: <i>James Loeffler</i>		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround <input type="checkbox"/> 10 Working Days <input type="checkbox"/> 3 Working Days <input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Drinking Water
Time: <input type="checkbox"/> 7 Working Days <input type="checkbox"/> 2 Working Days	<input type="checkbox"/> Waste Water
<input type="checkbox"/> 5 Working Days <input checked="" type="checkbox"/> 24 Hours	<input type="checkbox"/> Other

Analyses Requested

TPH by EPA 8015
BTEX + MTBE by EPA 8020
MTBE by EPA 8260
all detections to be confirmed
TPH by EPA 8015

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH by EPA 8015	BTEX + MTBE by EPA 8020	MTBE by EPA 8260	TPH by EPA 8015	Comments
1. <i>SB-E-W1</i>	<i>29 AUG 00</i> <i>11:33</i>	<i>Water</i>	<i>5</i>	<i>VOID</i>	<i>0015701</i>	X	X	X	X	<i>For diesel samples use silica gel cleanup</i>
2. <i>SB-F-W1</i>	<i>AUG 29 00</i> <i>12:11</i>	↓	↓	↓	<i>02</i>	↓	↓	↓	↓	
3. <i>SB-G-W1</i>	<i>29 AUG 00</i> <i>1:15</i>	↓	↓	↓	<i>03</i>	↓	↓	↓	↓	
4.					<i>11</i>					
5.										
6.										
7.										
8.										
9.										
10.										

Relinquished By: <i>Darryk Ataide</i>	Date: <i>8/29/00</i>	Time: <i>17:00</i>	Received By: <i>Mark Colli</i>	Date: <i>8:29</i>	Time: <i>17:00</i>
Relinquished By: <i>Mark Colli</i>	Date: <i>8:29</i>	Time: <i>18:00</i>	Received By: <i>G</i>	Date: <i>8:30</i>	Time: <i>11:15</i>
Relinquished By: <i>[Signature]</i>	Date: <i>8:30</i>	Time:	Received By Lab: <i>[Signature]</i>	Date: <i>8/30/00</i>	Time: <i>1440</i>

OCT 12 1999 2:54PM



Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
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(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

510-420-9170

August 31, 2000

Darryk Ataide
Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland, CA 94608

RE: Equiva Enterprises LLC/P008657

Dear Darryk Ataide

Enclosed are the results of analyses for sample(s) received by the laboratory on August 30, 2000. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Stover
Project Manager

CA ELAP Certificate Number 2374

*Preliminary Results
for the TPH-G/BTEX/
MTBE*





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Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Enterprises LLC	Sampled: 8/29/00
	Project Number: 540 Hegenberger	Received: 8/30/00
	Project Manager: Darryk Ataide	Reported: 8/31/00

ANALYTICAL REPORT FOR P008657

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
SB-E-W1	P008657-01	Water	8/29/00
SB-F-W1	P008657-02	Water	8/29/00
SB-G-W1	P008657-03	Water	8/29/00





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Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Enterprises LLC Project Number: 540 Hegenberger Project Manager: Darryk Ataide	Sampled: 8/29/00 Received: 8/30/00 Reported: 8/31/00
--------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------	------------------------------------------------------------

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
 Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
				<u>P008657-01</u>				<u>Water</u>
Gasoline	0080680	8/30/00	8/30/00		5000	ND	ug/l	
Benzene	"	"	"		50.0	ND	"	
Toluene	"	"	"		50.0	ND	"	
Ethylbenzene	"	"	"		50.0	ND	"	
Xylenes (total)	"	"	"		50.0	ND	"	
Methyl tert-butyl ether	"	"	"		250	13700	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		106	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		89.0	"	
				<u>P008657-02</u>				<u>Water</u>
Gasoline	0080680	8/30/00	8/30/00		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.50	68.3	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		107	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		89.7	"	
				<u>P008657-03</u>				<u>Water</u>
Gasoline	0080680	8/30/00	8/30/00		10000	51100	ug/l	
Benzene	"	"	"		100	2080	"	
Toluene	"	"	"		100	2390	"	
Ethylbenzene	"	"	"		100	2980	"	
Xylenes (total)	"	"	"		100	14100	"	
Methyl tert-butyl ether	"	"	"		500	58400	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		107	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		90.3	"	





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Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Enterprises LLC Project Number: 540 Hegenberger Project Manager: Darryk Ataide	Sampled: 8/29/00 Received: 8/30/00 Reported: 8/31/00
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
 Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0080680		Date Prepared: 8/30/00		Extraction Method: EPA 5030 waters						
Blank		0080680-BLK1								
Gasoline	8/30/00			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	2.50				
Surrogate: a,a,a-Trifluorotoluene	"	300		339	"	65.0-135	113			
Surrogate: 4-Bromofluorobenzene	"	300		284	"	65.0-135	94.7			
LCS		0080680-BS1								
Benzene	8/30/00	100		87.1	ug/l	65.0-135	87.1			
Toluene	"	100		88.9	"	65.0-135	88.9			
Ethylbenzene	"	100		97.9	"	65.0-135	97.9			
Xylenes (total)	"	300		284	"	65.0-135	94.7			
Methyl tert-butyl ether	"	100		84.9	"	65.0-135	84.9			
Surrogate: a,a,a-Trifluorotoluene	"	300		321	"	65.0-135	107			
Matrix Spike		0080680-MS1		P008610-01						
Benzene	8/30/00	100	ND	90.6	ug/l	65.0-135	90.6			
Toluene	"	100	ND	92.1	"	65.0-135	92.1			
Ethylbenzene	"	100	ND	102	"	65.0-135	102			
Xylenes (total)	"	300	ND	296	"	65.0-135	98.7			
Methyl tert-butyl ether	"	100	ND	90.8	"	65.0-135	90.8			
Surrogate: a,a,a-Trifluorotoluene	"	300		323	"	65.0-135	108			
Matrix Spike Dup		0080680-MSD1		P008610-01						
Benzene	8/30/00	100	ND	88.1	ug/l	65.0-135	88.1	20.0	2.80	
Toluene	"	100	ND	89.9	"	65.0-135	89.9	20.0	2.42	
Ethylbenzene	"	100	ND	99.4	"	65.0-135	99.4	20.0	2.58	
Xylenes (total)	"	300	ND	288	"	65.0-135	96.0	20.0	2.77	
Methyl tert-butyl ether	"	100	ND	91.6	"	65.0-135	91.6	20.0	0.877	
Surrogate: a,a,a-Trifluorotoluene	"	300		314	"	65.0-135	105			





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Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Equiva Enterprises LLC Project Number: 540 Hegenberger Project Manager: Darryk Ataide	Sampled: 8/29/00 Received: 8/30/00 Reported: 8/31/00
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Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference





Sequoia
Analytical

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September 19 , 2000

Darryk Ataide
Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland, CA 94608
RE: Equiva Enterprises LLC

Enclosed are the results of analyses for samples received by the laboratory on 08/30/00 14:40. The results for the soil properties are included as a separate report at the end of the Sequoia Labs report. At the final review of this report we found that one of the samples (SB-F-5.5) was not confirmed for MTBE by 8260. The sample was past hold time when this was discovered. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Stover
Project Manager

CA ELAP Certificate Number 2374





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SB-E-5.5	P008659-01	Soil	08/29/00 00:00	08/30/00 14:40
SB-E-10.5	P008659-02	Soil	08/29/00 00:00	08/30/00 14:40
SB-E-15.5	P008659-03	Soil	08/29/00 00:00	08/30/00 14:40
SB-E-20.5	P008659-04	Soil	08/29/00 00:00	08/30/00 14:40
SB-E-25.5	P008659-05	Soil	08/29/00 00:00	08/30/00 14:40
SB-F-5.5	P008659-06	Soil	08/29/00 00:00	08/30/00 14:40
SB-F-10.5	P008659-07	Soil	08/29/00 00:00	08/30/00 14:40
SB-G-5.5	P008659-08	Soil	08/29/00 00:00	08/30/00 14:40
SB-G-10.5	P008659-09	Soil	08/29/00 00:00	08/30/00 14:40





Cambria Environmental - Oakland
 1144 65th St., Suite C
 Oakland CA, 94608

Project: Equiva Enterprises LLC
 Project Number: 540 Hegenberger
 Project Manager: Darryk Ataide

Reported:
 09/19/00 12:11

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-E-5.5 (P008659-01) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Gasoline	ND	1.00	mg/kg	1	0080703	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	0.441	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>112 %</i>	<i>65-135</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>82.3 %</i>	<i>65-135</i>		"	"	"	"	
SB-E-10.5 (P008659-02) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Gasoline	ND	1.00	mg/kg	1	0080703	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	0.248	0.0500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>108 %</i>	<i>65-135</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>85.7 %</i>	<i>65-135</i>		"	"	"	"	
SB-E-15.5 (P008659-03) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Gasoline	ND	5.00	mg/kg	5	0080703	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.0250	"	"	"	"	"	"	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylenes (total)	ND	0.0250	"	"	"	"	"	"	
Methyl tert-butyl ether	1.83	0.250	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		<i>105 %</i>	<i>65-135</i>		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		<i>89.3 %</i>	<i>65-135</i>		"	"	"	"	





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SB-E-20.5 (P008659-04) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40

Gasoline	ND	1.00	mg/kg	1	0080703	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		113 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.5 %	65-135		"	"	"	"	

SB-E-25.5 (P008659-05) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40

Gasoline	ND	1.00	mg/kg	1	0080703	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.0500	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		109 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.2 %	65-135		"	"	"	"	

SB-F-5.5 (P008659-06) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40

Gasoline	ND	1.00	mg/kg	1	0080703	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	0.0727	0.0500	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		120 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		51.5 %	65-135		"	"	"	"	S-LOW





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-F-10.5 (P008659-07) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Gasoline	ND	1.00	mg/kg	1	0080703	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	ND	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	0.0551	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		117 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		66.0 %		65-135	"	"	"	"	
SB-G-5.5 (P008659-08) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Gasoline	2.19	1.00	mg/kg	1	0080703	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.132	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.258	0.00500	"	"	"	"	"	"	
Methyl tert-butyl ether	0.141	0.0500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		74.7 %		65-135	"	"	"	"	
SB-G-10.5 (P008659-09) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Gasoline	468	50.0	mg/kg	50	0080704	08/30/00	08/30/00	EPA 8015M/8020M	
Benzene	ND	0.250	"	"	"	"	"	"	
Toluene	1.88	0.250	"	"	"	"	"	"	QR-04
Ethylbenzene	7.05	0.250	"	"	"	"	"	"	
Xylenes (total)	26.9	0.250	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		94.3 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		65-135	"	"	"	"	





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M w/ S.G. Clean-up
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-E-5.5 (P008659-01) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	
Surrogate: <i>o</i> -Terphenyl		79.6 %	50-150		"	"	"	"	
SB-E-10.5 (P008659-02) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	
Surrogate: <i>o</i> -Terphenyl		80.5 %	50-150		"	"	"	"	
SB-E-15.5 (P008659-03) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	
Surrogate: <i>o</i> -Terphenyl		61.0 %	50-150		"	"	"	"	
SB-E-20.5 (P008659-04) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	
Surrogate: <i>o</i> -Terphenyl		87.1 %	50-150		"	"	"	"	
SB-E-25.5 (P008659-05) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	
Surrogate: <i>o</i> -Terphenyl		87.4 %	50-150		"	"	"	"	
SB-F-5.5 (P008659-06) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	
Surrogate: <i>o</i> -Terphenyl		81.1 %	50-150		"	"	"	"	
SB-F-10.5 (P008659-07) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	
Surrogate: <i>o</i> -Terphenyl		80.8 %	50-150		"	"	"	"	





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M w/ S.G. Clean-up
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-G-5.5 (P008659-08) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	
<i>Surrogate: o-Terphenyl</i>		93.4 %	50-150		"	"	"	"	
SB-G-10.5 (P008659-09) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Diesel (C10-C24)	108	5.00	mg/kg	1	0080708	09/05/00	09/07/00	EPA 8015M-SVOA	D-09
<i>Surrogate: o-Terphenyl</i>		94.6 %	50-150		"	"	"	"	





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

**Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SB-E-5.5 (P008659-01) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Methyl tert-butyl ether	0.481	0.0100	mg/kg	2	0090083	09/08/00	09/08/00	EPA 8260B	
Surrogate: Dibromofluoromethane		99.2 %	80-120		"	"	"	"	
SB-E-10.5 (P008659-02) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Methyl tert-butyl ether	0.0971	0.00500	mg/kg	1	0090083	09/08/00	09/08/00	EPA 8260B	
Surrogate: Dibromofluoromethane		100 %	80-120		"	"	"	"	
SB-E-15.5 (P008659-03) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Methyl tert-butyl ether	1.86	0.500	mg/kg	100	0090143	09/08/00	09/11/00	EPA 8260B	
Surrogate: Dibromofluoromethane		96.5 %	80-120		"	"	"	"	
SB-F-10.5 (P008659-07) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Methyl tert-butyl ether	ND	0.00500	mg/kg	1	0090083	09/08/00	09/08/00	EPA 8260B	
Surrogate: Dibromofluoromethane		97.6 %	80-120		"	"	"	"	
SB-G-5.5 (P008659-08) Soil Sampled: 08/29/00 00:00 Received: 08/30/00 14:40									
Methyl tert-butyl ether	0.0505	0.0100	mg/kg	2	0090083	09/08/00	09/08/00	EPA 8260B	
Surrogate: Dibromofluoromethane		100 %	80-120		"	"	"	"	





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080703 - EPA 5030 soils

Blank (0080703-BLK1)

Prepared & Analyzed: 08/30/00

Gasoline	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
Methyl tert-butyl ether	ND	0.0500	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.637		"	0.600		106	65-135			
Surrogate: 4-Bromofluorobenzene	0.564		"	0.600		94.0	65-135			

LCS (0080703-BS1)

Prepared & Analyzed: 08/30/00

Benzene	0.200	0.00500	mg/kg	0.200		100	65-135			
Toluene	0.199	0.00500	"	0.200		99.5	65-135			
Ethylbenzene	0.199	0.00500	"	0.200		99.5	65-135			
Xylenes (total)	0.589	0.00500	"	0.600		98.2	65-135			
Methyl tert-butyl ether	0.182	0.0500	"	0.200		91.0	65-135			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.619		"	0.600		103	65-135			

Matrix Spike (0080703-MS1)

Source: P008659-04

Prepared & Analyzed: 08/30/00

Benzene	0.208	0.00500	mg/kg	0.200	ND	104	65-135			
Toluene	0.206	0.00500	"	0.200	ND	103	65-135			
Ethylbenzene	0.204	0.00500	"	0.200	ND	102	65-135			
Xylenes (total)	0.602	0.00500	"	0.600	ND	100	65-135			
Methyl tert-butyl ether	0.195	0.0500	"	0.200	ND	95.0	65-135			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.644		"	0.600		107	65-135			

Matrix Spike Dup (0080703-MSD1)

Source: P008659-04

Prepared & Analyzed: 08/30/00

Benzene	0.212	0.00500	mg/kg	0.200	ND	106	65-135	1.90	20	
Toluene	0.210	0.00500	"	0.200	ND	105	65-135	1.92	20	
Ethylbenzene	0.209	0.00500	"	0.200	ND	105	65-135	2.42	20	
Xylenes (total)	0.615	0.00500	"	0.600	ND	102	65-135	2.14	20	
Methyl tert-butyl ether	0.189	0.0500	"	0.200	ND	92.0	65-135	3.12	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.658		"	0.600		110	65-135			





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080704 - EPA 5030 soils MeOH

Blank (0080704-BLK1)

Prepared & Analyzed: 08/30/00

Gasoline	ND	50.0	mg/kg							
Benzene	ND	0.250	"							
Toluene	ND	0.250	"							
Ethylbenzene	ND	0.250	"							
Xylenes (total)	ND	0.250	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	29.3		"	30.0		97.7	65-135			
Surrogate: 4-Bromofluorobenzene	28.0		"	30.0		93.3	65-135			

Blank (0080704-BLK2)

Prepared: 08/31/00 Analyzed: 09/01/00

Gasoline	ND	50.0	mg/kg							
Benzene	ND	0.250	"							
Toluene	ND	0.250	"							
Ethylbenzene	ND	0.250	"							
Xylenes (total)	ND	0.250	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	27.8		"	30.0		92.7	65-135			
Surrogate: 4-Bromofluorobenzene	28.7		"	30.0		95.7	65-135			

Blank (0080704-BLK3)

Prepared & Analyzed: 09/05/00

Gasoline	ND	50.0	mg/kg							
Benzene	ND	0.250	"							
Toluene	ND	0.250	"							
Ethylbenzene	ND	0.250	"							
Xylenes (total)	ND	0.250	"							
Methyl tert-butyl ether	ND	2.50	"							
Surrogate: a,a,a-Trifluorotoluene	28.1		"	30.0		93.7	65-135			
Surrogate: 4-Bromofluorobenzene	27.8		"	30.0		92.7	65-135			





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080704 - EPA 5030 soils MeOH

LCS (0080704-BS1)

Prepared & Analyzed: 08/30/00

Benzene	9.59	0.250	mg/kg	10.0		95.9	65-135			
Toluene	9.43	0.250	"	10.0		94.3	65-135			
Ethylbenzene	9.18	0.250	"	10.0		91.8	65-135			
Xylenes (total)	30.7	0.250	"	30.0		102	65-135			
Methyl tert-butyl ether	8.22	2.50	"	10.0		82.2	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.8		"	30.0		99.3	65-135			

LCS (0080704-BS2)

Prepared: 08/31/00 Analyzed: 09/01/00

Benzene	9.67	0.250	mg/kg	10.0		96.7	65-135			
Toluene	9.42	0.250	"	10.0		94.2	65-135			
Ethylbenzene	9.18	0.250	"	10.0		91.8	65-135			
Xylenes (total)	30.8	0.250	"	30.0		103	65-135			
Methyl tert-butyl ether	8.10	2.50	"	10.0		81.0	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	28.8		"	30.0		96.0	65-135			

LCS (0080704-BS3)

Prepared & Analyzed: 09/05/00

Benzene	9.46	0.250	mg/kg	10.0		94.6	65-135			
Toluene	9.25	0.250	"	10.0		92.5	65-135			
Ethylbenzene	9.04	0.250	"	10.0		90.4	65-135			
Xylenes (total)	30.3	0.250	"	30.0		101	65-135			
Methyl tert-butyl ether	7.90	2.50	"	10.0		79.0	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.4		"	30.0		98.0	65-135			

LCS Dup (0080704-BSD2)

Prepared: 08/31/00 Analyzed: 09/01/00

Benzene	9.74	0.250	mg/kg	10.0		97.4	65-135	0.721	20	
Toluene	9.48	0.250	"	10.0		94.8	65-135	0.635	20	
Ethylbenzene	9.20	0.250	"	10.0		92.0	65-135	0.218	20	
Xylenes (total)	30.8	0.250	"	30.0		103	65-135	0	20	
Methyl tert-butyl ether	7.78	2.50	"	10.0		77.8	65-135	4.03	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	28.9		"	30.0		96.3	65-135			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland CA, 94608	Project: Equiva Enterprises LLC Project Number: 540 Hegenberger Project Manager: Darryk Ataide	Reported: 09/19/00 12:11
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080704 - EPA 5030 soils MeOH

LCS Dup (0080704-BSD3)		Prepared & Analyzed: 09/05/00								
Benzene	9.62	0.250	mg/kg	10.0		96.2	65-135	1.68	20	
Toluene	9.42	0.250	"	10.0		94.2	65-135	1.82	20	
Ethylbenzene	9.19	0.250	"	10.0		91.9	65-135	1.65	20	
Xylenes (total)	30.8	0.250	"	30.0		103	65-135	1.64	20	
Methyl tert-butyl ether	8.16	2.50	"	10.0		81.6	65-135	3.24	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	29.0		"	30.0		96.7	65-135			

Matrix Spike (0080704-MS1)		Source: P008659-09		Prepared & Analyzed: 08/30/00						QM-07
Benzene	8.99	0.250	mg/kg	10.0	ND	88.6	65-135			
Toluene	16.3	0.250	"	10.0	1.88	144	65-135			
Ethylbenzene	20.7	0.250	"	10.0	7.05	137	65-135			
Xylenes (total)	88.9	0.250	"	30.0	26.9	207	65-135			
Methyl tert-butyl ether	8.09	2.50	"	10.0	ND	70.5	65-135			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	28.5		"	30.0		95.0	65-135			

Matrix Spike Dup (0080704-MSD1)		Source: P008659-09		Prepared & Analyzed: 08/30/00						QM-07
Benzene	9.21	0.250	mg/kg	10.0	ND	90.9	65-135	2.42	20	
Toluene	11.8	0.250	"	10.0	1.88	99.2	65-135	32.0	20	
Ethylbenzene	13.3	0.250	"	10.0	7.05	62.5	65-135	43.5	20	
Xylenes (total)	53.1	0.250	"	30.0	26.9	87.3	65-135	50.4	20	
Methyl tert-butyl ether	7.61	2.50	"	10.0	ND	65.7	65-135	6.11	20	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	28.9		"	30.0		96.3	65-135			





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M w/ S.G. Clean-up - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0080708 - CA LUFT - orb shaker

Blank (0080708-BLK1)

Prepared: 09/05/00 Analyzed: 09/06/00

Diesel (C10-C24)	ND	5.00	mg/kg							
Surrogate: o-Terphenyl	2.95		"	3.33		88.6	50-150			

LCS (0080708-BS1)

Prepared: 09/05/00 Analyzed: 09/06/00

Diesel (C10-C24)	33.1	5.00	mg/kg	33.3		99.4	50-150			
Surrogate: o-Terphenyl	3.22		"	3.33		96.7	50-150			

Matrix Spike (0080708-MS1)

Source: P008659-08

Prepared: 09/05/00 Analyzed: 09/07/00

Diesel (C10-C24)	35.8	5.00	mg/kg	33.3	ND	96.4	50-150			
Surrogate: o-Terphenyl	3.28		"	3.33		98.5	50-150			

Matrix Spike Dup (0080708-MSD1)

Source: P008659-08

Prepared: 09/05/00 Analyzed: 09/07/00

Diesel (C10-C24)	37.4	5.00	mg/kg	33.3	ND	101	50-150	4.37	35	
Surrogate: o-Terphenyl	3.36		"	3.33		101	50-150			





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0090083 - EPA 5030 soils

Blank (0090083-BLK1)

Prepared & Analyzed: 09/06/00

Methyl tert-butyl ether	ND	0.00500	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	0.0525		"	0.0500		105	80-120			

Blank (0090083-BLK2)

Prepared & Analyzed: 09/08/00

Methyl tert-butyl ether	ND	0.00500	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	0.0484		"	0.0500		96.8	80-120			

LCS (0090083-BS1)

Prepared & Analyzed: 09/06/00

Methyl tert-butyl ether	0.0514	0.00500	mg/kg	0.0500		103	75.8-124			
<i>Surrogate: Dibromofluoromethane</i>	0.0493		"	0.0500		98.6	80-120			

LCS (0090083-BS2)

Prepared & Analyzed: 09/08/00

Methyl tert-butyl ether	0.0530	0.00500	mg/kg	0.0500		106	75.8-124			
<i>Surrogate: Dibromofluoromethane</i>	0.0533		"	0.0500		107	80-120			

Matrix Spike (0090083-MS1)

Source: P008669-18

Prepared & Analyzed: 09/06/00

Methyl tert-butyl ether	0.123	0.00500	mg/kg	0.125	ND	98.4	75.8-124			
<i>Surrogate: Dibromofluoromethane</i>	0.123		"	0.125		98.4	80-120			

Matrix Spike Dup (0090083-MSD1)

Source: P008669-18

Prepared & Analyzed: 09/06/00

Methyl tert-butyl ether	0.124	0.00500	mg/kg	0.125	ND	99.2	75.8-124	0.810	35	
<i>Surrogate: Dibromofluoromethane</i>	0.120		"	0.125		96.0	80-120			

Batch 0090143 - EPA 5030 soils MeOH

Blank (0090143-BLK1)

Prepared: 09/08/00 Analyzed: 09/11/00

Methyl tert-butyl ether	ND	0.500	mg/kg							
<i>Surrogate: Dibromofluoromethane</i>	2.02		"	2.00		101	80-120			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland CA, 94608	Project: Equiva Enterprises LLC Project Number: 540 Hegenberger Project Manager: Darryk Ataide	Reported: 09/19/00 12:11
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**Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0090143 - EPA 5030 soils MeOH

LCS (0090143-BS1)

Prepared: 09/08/00 Analyzed: 09/11/00

Methyl tert-butyl ether	1.97	0.500	mg/kg	2.00		98.5	75.8-124			
Surrogate: Dibromofluoromethane	2.00		"	2.00		100	80-120			

Matrix Spike (0090143-MS1)

Source: P008659-03

Prepared: 09/08/00 Analyzed: 09/11/00

Methyl tert-butyl ether	3.89	0.500	mg/kg	2.00	1.86	102	75.8-124			
Surrogate: Dibromofluoromethane	1.95		"	2.00		97.5	80-120			

Matrix Spike Dup (0090143-MSD1)

Source: P008659-03

Prepared: 09/08/00 Analyzed: 09/11/00

Methyl tert-butyl ether	3.55	0.500	mg/kg	2.00	1.86	84.5	75.8-124	9.14	35	
Surrogate: Dibromofluoromethane	1.91		"	2.00		95.5	80-120			





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva Enterprises LLC
Project Number: 540 Hegenberger
Project Manager: Darryk Ataide

Reported:
09/19/00 12:11

Notes and Definitions

- D-09 Results in the diesel organics range are elevated due to overlap from higher boiling point hydrocarbons.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QR-04 Results between the primary and confirmation columns varied by greater than 40% RPD.
- S-LOW Low surrogate recovery confirmed as a matrix effect by a second analysis.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





ETS

1343 Redwood Way
Petaluma, CA 94954

(707) 795-9605/FAX 795-9384

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PHYSICAL PROPERTIES SOIL REPORT

To: Richard Stover
Sequoia Analytical
1455 N. McDowell Blvd., Suite D
Petaluma, CA 94954

Date: September 15, 2000
Lab #: 00-08-0481 & 00-08-0482
Received: August 31, 2000
Tech(s): S. Theodore/S. Banwait
Lab Supervisor: D. Jacobson
Lab Director: G.S. Conrad, Ph.D.
Sample ID(s): 8659-10 & 8659-11

Samples of: soil/sediment

Site Location: @ 540 Hegenberger Road, Oakland, California.

RESULTS

SAMPLE ID	MOISTURE	BULK DENSITY	POROSITY	T O C
8659-10	16.76%	94.8 lbs/cuft	36.7%	842 mg/kg
8659-11	25.31%	85.4 lbs/cuft	50.6%	13,263 mg/kg

COMMENTS

One sample was more of a loamy (silt & clay) sand material (8659-10), while the other was more of a loamy or silty clay (8659-11). Both have relatively low bulk densities consistent with surface or near surface materials (i.e., uncompacted). Moisture percentages are very consistent with the significant difference in texture between these two samples. In addition, the organic content seems to be more or less consistent with textures of these materials as well. Sandy materials typically have TOCs in the range of 500-2500 ppm; while clayey materials generally would be anywhere in the fairly broad range of 5,000-25,000 ppm. Indeed, both samples fall within these respective ranges. Porosities also fit with loamy sand and clayey materials. The one rather significant difference would be that the hydraulic conductivity (or transmissivity) of the sand sediment should be vastly greater than that of the clayey sediment. In other words, despite the somewhat greater porosity (i.e., pore volume) of the clay sediment, its permeability should far far below that of the sand sediment.

NOTES:

These tests were done in accordance with ASTM standards as follows: Porosity (as pore volume) - ASTM D 854; Moisture - ASTM D 2974; Density - ASTM D 2937; and Total Organic Carbon by potassium dichromate/sulfuric acid digestion (Walkley-Black).



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-1866
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

MU 0110 F. 2

Company Name: <i>Equiva Services LLC</i>			Project Name: <i>540 Hegenberger</i>		
Mailing Address: <i>P.O. Box 7869</i>			Billing Address (if different):		
City: <i>Burbank</i>	State: <i>CA</i>	Zip Code: <i>91510-7869</i>			
Telephone: <i>(510) 420-3339</i>		FAX #: <i>(510) 420-9170</i>	P.O. #: <i>242-0414</i>		
Report To: <i>Darryk Ataide</i>	Sampler: <i>James Loetterle</i>		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A		

Turnaround <input type="checkbox"/> 10 Working Days <input type="checkbox"/> 3 Working Days <input type="checkbox"/> 2 - 8 Hours	<input type="checkbox"/> Drinking Water
Time: <input type="checkbox"/> 7 Working Days <input type="checkbox"/> 2 Working Days	<input type="checkbox"/> Waste Water
<input type="checkbox"/> 5 Working Days <input checked="" type="checkbox"/> 24 Hours	<input type="checkbox"/> Other

SOIL PHYSICAL PROPERTIES
 TOC
 MOISTURE CONTENT
 DRY BULK DENSITY
 Porosity

Analyses Requested

X
X

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Analyses Requested										Comments		
1. <i>SB-GR-6.0</i>	<i>Aug 29 00 1:00</i>	<i>SOIL</i>	<i>1</i>	<i>BRASS RING</i>	<i>008659-10</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2. <i>SB-AP-6.0</i>	<i>Aug 29 00 12:00</i>	<i>↓</i>	<i>↓</i>	<i>↓</i>	<i>-11</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.																		
4.					<i>11</i>													
5.																		
6.																		
7.																		
8.																		<input type="checkbox"/>
9.																		<input type="checkbox"/>
10.																		

COOLER CUSTODY SEALS INTACT

NOT INTACT

COOLER TEMPERATURE 6

MAY 12 1999 2:52PM

Relinquished By: <i>Darryk Ataide</i>	Date: <i>8/29/00</i>	Time: <i>17:00</i>	Received By: <i>Mark Coll.</i>	Date: <i>8-29</i>	Time: <i>1:00</i>
Relinquished By: <i>Mark Coll.</i>	Date: <i>8-29</i>	Time: <i>1800</i>	Received By: <i>~</i>	Date: <i>8/30</i>	Time: <i>1:15</i>
Relinquished By: <i>~</i>	Date: <i>8/30</i>	Time: <i>~</i>	Received By Lab: <i>Joel Aguilera</i>	Date: <i>8/30/00</i>	Time: <i>1440</i>



Sequoia Analytical

1455 McDowell Blvd. North, Ste. D
Petaluma, CA 94954
(707) 792-1865
FAX (707) 792-0342
www.sequoialabs.com

September 28 , 2000

Darryk Ataide
Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland, CA 94608
RE: Equiva

Enclosed are the results of analyses for samples received by the laboratory on 09/11/00 13:20. The soils properties report is attached at the end of the Sequoia report. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Richard Stover
Project Manager

CA ELAP Certificate Number 2374





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva
Project Number: 540 Hegenberger Rd., Oakland
Project Manager: Darryk Ataide

Reported:
09/28/00 15:28

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4-5.5	P009242-01	Soil	09/05/00 08:50	09/11/00 13:20
MW-4-10.5	P009242-02	Soil	09/05/00 08:53	09/11/00 13:20
MW-4-15.5	P009242-03	Soil	09/05/00 09:00	09/11/00 13:20





Cambria Environmental - Oakland
 1144 65th St., Suite C
 Oakland CA, 94608

Project: Equiva
 Project Number: 540 Hegenberger Rd., Oakland
 Project Manager: Darryk Ataide

Reported:
 09/28/00 15:28

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4-5.5 (P009242-01) Soil Sampled: 09/05/00 08:50 Received: 09/11/00 13:20									
Gasoline	ND	1000	ug/kg	1	0090196	09/14/00	09/14/00	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		164 %	65-135		"	"	"	"	S-04
Surrogate: 4-Bromofluorobenzene		23.2 %	65-135		"	"	"	"	S-04
MW-4-10.5 (P009242-02) Soil Sampled: 09/05/00 08:53 Received: 09/11/00 13:20									
Gasoline	ND	1000	ug/kg	1	0090196	09/14/00	09/14/00	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.8 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.3 %	65-135		"	"	"	"	
MW-4-15.5 (P009242-03) Soil Sampled: 09/05/00 09:00 Received: 09/11/00 13:20									
Gasoline	ND	1000	ug/kg	1	0090196	09/14/00	09/14/00	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.2 %	65-135		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.7 %	65-135		"	"	"	"	





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva
Project Number: 540 Hegenberger Rd., Oakland
Project Manager: Darryk Ataide

Reported:
09/28/00 15:28

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4-19.0 (P009242-04) Soil Sampled: 09/05/00 09:04 Received: 09/11/00 13:20									
Gasoline	ND	1000	ug/kg	1	0090196	09/14/00	09/14/00	EPA 8015M/8020M	
Benzene	ND	5.00	"	"	"	"	"	"	
Toluene	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	5.00	"	"	"	"	"	"	
Xylenes (total)	ND	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	50.0	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		98.7 %		65-135	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		78.8 %		65-135	"	"	"	"	





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva
Project Number: 540 Hegenberger Rd., Oakland
Project Manager: Darryk Ataide

Reported:
09/28/00 15:28

**Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M w/ S.G. Clean-up
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4-5.5 (P009242-01) Soil Sampled: 09/05/00 08:50 Received: 09/11/00 13:20									
Diesel (C10-C24)	31.7	5.00	mg/kg	1	0090261	09/14/00	09/18/00	EPA 8015M-SVOA	HC-12
Surrogate: o-Terphenyl		81.1 %	50-150		"	"	"	"	
MW-4-10.5 (P009242-02) Soil Sampled: 09/05/00 08:53 Received: 09/11/00 13:20									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0090261	09/14/00	09/19/00	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		52.0 %	50-150		"	"	"	"	
MW-4-15.5 (P009242-03) Soil Sampled: 09/05/00 09:00 Received: 09/11/00 13:20									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0090261	09/14/00	09/18/00	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		72.1 %	50-150		"	"	"	"	
MW-4-19.0 (P009242-04) Soil Sampled: 09/05/00 09:04 Received: 09/11/00 13:20									
Diesel (C10-C24)	ND	5.00	mg/kg	1	0090261	09/14/00	09/18/00	EPA 8015M-SVOA	
Surrogate: o-Terphenyl		74.8 %	50-150		"	"	"	"	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland CA, 94608	Project: Equiva Project Number: 540 Hegenberger Rd., Oakland Project Manager: Darryk Ataide	Reported: 09/28/00 15:28
--------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------	-----------------------------

**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M - Quality Control
Sequoia Analytical - Petaluma**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0090196 - EPA 5030 soils

Blank (0090196-BLK3)

Prepared & Analyzed: 09/14/00

Gasoline	ND	1000	ug/kg							
Benzene	ND	5.00	"							
Toluene	ND	5.00	"							
Ethylbenzene	ND	5.00	"							
Xylenes (total)	ND	5.00	"							
Methyl tert-butyl ether	ND	50.0	"							
Surrogate: a,a,a-Trifluorotoluene	498		"	600		83.0	65-135			
Surrogate: 4-Bromofluorobenzene	516		"	600		86.0	65-135			

LCS (0090196-BS3)

Prepared & Analyzed: 09/14/00

Gasoline	1920	1000	ug/kg	2000		96.0	65-135			
Surrogate: 4-Bromofluorobenzene	585		"	600		97.5	65-135			





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva
Project Number: 540 Hegenberger Rd., Oakland
Project Manager: Darryk Ataide

Reported:
09/28/00 15:28

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M w/ S.G. Clean-up - Quality Control
Sequoia Analytical - Petaluma

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0090261 - CA LUFT - orb shaker										
Blank (0090261-BLK1)				Prepared: 09/14/00 Analyzed: 09/18/00						
Diesel (C10-C24)	ND	5.00	mg/kg							
Surrogate: o-Terphenyl	2.62		"	3.33		78.7	50-150			
LCS (0090261-BS1)				Prepared: 09/14/00 Analyzed: 09/18/00						
Diesel (C10-C24)	32.9	5.00	mg/kg	33.3		98.8	50-150			
Surrogate: o-Terphenyl	5.94		"	6.67		89.1	50-150			
Matrix Spike (0090261-MS1)				Source: P009081-09		Prepared: 09/14/00 Analyzed: 09/18/00				
Diesel (C10-C24)	30.8	5.00	mg/kg	33.3	ND	84.1	50-150			
Surrogate: o-Terphenyl	2.24		"	3.33		67.3	50-150			
Matrix Spike Dup (0090261-MSD1)				Source: P009081-09		Prepared: 09/14/00 Analyzed: 09/18/00				
Diesel (C10-C24)	33.3	5.00	mg/kg	33.3	ND	91.6	50-150	7.80	35	
Surrogate: o-Terphenyl	2.57		"	3.33		77.2	50-150			





Cambria Environmental - Oakland
1144 65th St., Suite C
Oakland CA, 94608

Project: Equiva
Project Number: 540 Hegenberger Rd., Oakland
Project Manager: Darryk Ataide

Reported:
09/28/00 15:28

Notes and Definitions

- HC-12 Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





ETS

1343 Redwood Way
Petaluma, CA 94954

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PHYSICAL PROPERTIES SOIL REPORT

To: Richard Stover
Sequoia Analytical
1455 N. McDowell Blvd., Suite D
Petaluma, CA 94954

Date: September 26, 2000
Lab #: 00-09-0222
Received: September 15, 2000
Tech(s): S. Theodore/S. Banwait
Lab Supervisor: D. Jacobson
Lab Director: G.S. Conrad, Ph.D.
Sample ID(s): 9242-05

Samples of: soil/sediment
(MW-4P-11.0)

Site Location: @ 540 Hegenberger Road, Oakland, California.

RESULTS

SAMPLE ID	MOISTURE	BULK DENSITY	T O C
9242-05	22.70%	86.5 lbs/cuft	3105 mg/kg

RECEIVED

SEP 28 2000

COMMENTS

The sample appeared to be a silty clay with sand and has values that are a little on the low side for a clayey material, but not unusually low depending on location characteristics and depth. Moisture content reported above is given in a consistent way with the previous two analyzed samples (8659-10 & 8659-11). That is, percent moisture is reported as percent of total mass (i.e., as percent of the "as received" weight). Moisture on an oven dried basis would be higher (in this case 29.36% as an example). In any event, bulk density is similar to the previously analyzed heavier soil; and moisture is not too different either. But notice that TOC is much lower which suggests significant differences in location properties and/or depth.

NOTES:

These tests were done in accordance with ASTM standards as follows: Porosity (as pore volume) - ASTM D 854; Moisture - ASTM D 2974; Density - ASTM D 2937; and Total Organic Carbon by potassium dichromate/sulfuric acid digestion (Walkley-Black).



SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Company Name: <i>Equiva Services LLC</i>			Project Name: <i>640 Hegenberger</i>		
Mailing Address: <i>P.O. Box 7869</i>			Billing Address (if different): <i>Equiva Engineer - Karen Peterson</i>		
City: <i>Burbank</i>	State: <i>CA</i>	Zip Code: <i>91510-7869</i>	Incident # <i>98995782</i>		<i>(559) 645-7306</i>
Telephone: <i>(510) 420-3339</i>		FAX #: <i>(510) 420-9170</i>		P.O. #: <i>242-0414</i>	
Report To: <i>Darryk Ataide</i>		Sampler: <i>James Loetterle</i>		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 24 Hours

Drinking Water Waste Water Other

Analyses Requested

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	Physical Properties (T _{10k} , moisture content, Dry Bulk density)					Comments	
<i>1. MW-4P-11.0</i>	<i>9/5/00</i>	<i>soil</i>	<i>1</i>	<i>Brass Tine</i>	<i>X</i>							<i>POOR 2-05</i>
<i>2.</i>												
<i>3.</i>												
<i>4.</i>					<i>11</i>							
<i>5.</i>												
<i>6.</i>												
<i>7.</i>												
<i>8.</i>												
<i>9.</i>												
<i>10.</i>												

Relinquished By: <i>[Signature]</i>	Date: <i>9/6/00</i>	Time: <i>10:07</i>	Received By: <i>Scott Stevenson</i>	Date: <i>9/11/00</i>	Time: <i>1320</i>
Relinquished By:	Date:	Time:	Received By:	Date:	Time:
Relinquished By:	Date:	Time:	Received By Lab:	Date:	Time:

7 5 C110 VM

M17913 6661 21130

COOLER CUSTODY SERIES 11/00
 COOLER TEMPERATURE 5 °C



Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

26 September, 2000

Darryk Attaide
Cambria - Oakland
1144 65th St, Suite B
Oakland, CA 94608

RE: -
Sequoia Report: MJ10071

Enclosed are the results of analyses for samples received by the laboratory on 09/05/00 19:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

for Jeff Smyly
Project Manager

CA ELAP Certificate #1210



Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SBSP-1	MJI0071-01	Soil	08/29/00 14:30	09/05/00 19:00
SBSP-2	MJI0071-02	Soil	08/29/00 14:30	09/05/00 19:00
SBSP-3	MJI0071-03	Soil	08/29/00 14:30	09/05/00 19:00
SBSP-4	MJI0071-04	Soil	08/29/00 14:30	09/05/00 19:00
SBSP-(1-4)	MJI0071-05	Soil	08/29/00 14:30	09/05/00 19:00

Sequoia Analytical - Morgan Hill

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

Jeff Smyly, Project Manager





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

**Total Purgeable Hydrocarbons by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SBSP-1 (MJI0071-01) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	0111001	09/11/00	09/11/00	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene		97.0 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		71.0 %	60-140		"	"	"	"	
SBSP-2 (MJI0071-02) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	0111001	09/11/00	09/11/00	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene		100 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		70.0 %	60-140		"	"	"	"	
SBSP-3 (MJI0071-03) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Purgeable Hydrocarbons	ND	1.00	mg/kg	1	0111001	09/11/00	09/11/00	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene		98.5 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		78.5 %	60-140		"	"	"	"	
SBSP-4 (MJI0071-04) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Purgeable Hydrocarbons	13.7	1.00	mg/kg	1	0111001	09/11/00	09/11/00	DHS LUFT	
Surrogate: a,a,a-Trifluorotoluene		117 %	70-130		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		96.5 %	60-140		"	"	"	"	





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

**Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SBSP-1 (MJ10071-01) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Diesel Range Hydrocarbons	4.10	4.00	mg/kg	4	0111007	09/11/00	09/12/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		41.9 %	50-150		"	"	"	"	S-01
SBSP-2 (MJ10071-02) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Diesel Range Hydrocarbons	7.40	4.00	mg/kg	4	0111007	09/11/00	09/12/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		59.9 %	50-150		"	"	"	"	
SBSP-3 (MJ10071-03) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Diesel Range Hydrocarbons	2.20	1.00	mg/kg	1	0111007	09/11/00	09/14/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		108 %	50-150		"	"	"	"	
SBSP-4 (MJ10071-04) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Diesel Range Hydrocarbons	171	5.00	mg/kg	1	0111007	09/11/00	09/14/00	DHS LUFT	D-15
Surrogate: n-Pentacosane		820 %	50-150		"	"	"	"	S-01





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

**MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SBSP-(1-4) (MJ10071-05) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Methyl tert-butyl ether	0.184	0.0500	mg/kg	1	0111001	09/11/00	09/11/00	EPA 8020A	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	0.0368	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0604	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.163	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		116 %		70-130	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		79.0 %		60-140	"	"	"	"	





Cambria - Oakland 1144 65th St, Suite B Oakland CA, 94608	Project: - Project Number: - Project Manager: Darryk Attaide	Reported: 09/26/00 18:00
-----------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SBSP-(1-4) (MJI0071-05) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Lead	ND	10.0	mg/kg	1	0114009	09/13/00	09/15/00	EPA 6010A	





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

**STLC CAM Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SBSP-(1-4) (MJI0071-05) Soil Sampled: 08/29/00 14:30 Received: 09/05/00 19:00									
Lead	0.269	0.200	mg/l	1	0120024	09/20/00	09/20/00	EPA 6010A	





Cambria - Oakland 1144 65th St, Suite B Oakland CA, 94608	Project: - Project Number: - Project Manager: Darryk Attaide	Reported: 09/26/00 18:00
-----------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------

METALS

Del Mar Analytical, Colton

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SBSP-(1-4) (MJI0071-05) Soil **Sampled: 08/29/00 14:30** **Received: 09/05/00 19:00**

Organic Lead	8.9	1.0	mg/kg	1	COI1114	09/11/00	09/12/00	Title 22 Ap. XI	
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Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

**Total Purgeable Hydrocarbons by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0111001 - EPA 5030B [P/T]										
Blank (0111001-BLK1)										
				Prepared & Analyzed: 09/11/00						
Purgeable Hydrocarbons	ND	1.00	mg/kg							
Surrogate: a,a,a-Trifluorotoluene	0.191		"	0.200		95.5	70-130			
Surrogate: 4-Bromofluorobenzene	0.168		"	0.200		84.0	60-140			
LCS (0111001-BS1)										
				Prepared & Analyzed: 09/11/00						
Purgeable Hydrocarbons	5.70	1.00	mg/kg	5.00		114	70-130			
Surrogate: a,a,a-Trifluorotoluene	0.275		"	0.200		138	70-130			S-02
Surrogate: 4-Bromofluorobenzene	0.152		"	0.200		76.0	60-140			
Matrix Spike (0111001-MS1)										
				Source: MJH0959-01			Prepared & Analyzed: 09/11/00			
Purgeable Hydrocarbons	7.16	1.00	mg/kg	5.00	2.57	91.8	60-140			
Surrogate: a,a,a-Trifluorotoluene	0.293		"	0.200		147	70-130			S-02
Surrogate: 4-Bromofluorobenzene	0.195		"	0.200		97.5	60-140			
Matrix Spike Dup (0111001-MSD1)										
				Source: MJH0959-01			Prepared & Analyzed: 09/11/00			
Purgeable Hydrocarbons	6.87	1.00	mg/kg	5.00	2.57	86.0	60-140	4.13	25	
Surrogate: a,a,a-Trifluorotoluene	0.313		"	0.200		156	70-130			S-02
Surrogate: 4-Bromofluorobenzene	0.178		"	0.200		89.0	60-140			





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

Diesel Hydrocarbons (C9-C24) by DHS LUFT - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0111007 - EPA 3580A										
Blank (0111007-BLK1)				Prepared: 09/11/00 Analyzed: 09/12/00						
Diesel Range Hydrocarbons	ND	1.00	mg/kg							
Surrogate: n-Pentacosane	1.60		"	1.67		95.8	50-150			
LCS (0111007-BS1)				Prepared: 09/11/00 Analyzed: 09/12/00						
Diesel Range Hydrocarbons	19.3	1.00	mg/kg	16.7		116	60-140			
Surrogate: n-Pentacosane	1.80		"	1.67		108	50-150			
Matrix Spike (0111007-MS1)				Source: MJ10071-03		Prepared: 09/11/00 Analyzed: 09/12/00				
Diesel Range Hydrocarbons	4.70	1.00	mg/kg	16.7	2.20	15.0	50-150			Q-01
Surrogate: n-Pentacosane	0.400		"	1.67		24.0	50-150			S-03
Matrix Spike Dup (0111007-MSD1)				Source: MJ10071-03		Prepared: 09/11/00 Analyzed: 09/12/00				
Diesel Range Hydrocarbons	6.10	1.00	mg/kg	16.7	2.20	23.4	50-150	25.9	50	Q-01
Surrogate: n-Pentacosane	0.500		"	1.67		29.9	50-150			S-03





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

**MTBE by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0111001 - EPA 5030B [P/T]

Blank (0111001-BLK1)

Prepared & Analyzed: 09/11/00

Methyl tert-butyl ether	ND	0.0250	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.191		"	0.200		95.5	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.168		"	0.200		84.0	60-140			

LCS (0111001-BS2)

Prepared & Analyzed: 09/11/00

Benzene	0.220	0.00500	mg/kg	0.200		110	70-130			
Toluene	0.226	0.00500	"	0.200		113	70-130			
Ethylbenzene	0.217	0.00500	"	0.200		108	70-130			
Xylenes (total)	0.636	0.00500	"	0.600		106	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.180		"	0.200		90.0	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.162		"	0.200		81.0	60-140			

Matrix Spike (0111001-MS1)

Source: MJH0959-01

Prepared: 09/11/00 Analyzed: 09/15/00

<i>Surrogate: 4-Bromofluorobenzene</i>	0		mg/kg	0.200			60-140			
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Matrix Spike (0111001-MS2)

Source: MJI0071-01

Prepared & Analyzed: 09/11/00

Benzene	0.198	0.00500	mg/kg	0.200	ND	99.0	60-140			
Toluene	0.203	0.00500	"	0.200	0.00870	97.1	60-140			
Ethylbenzene	0.201	0.00500	"	0.200	ND	101	60-140			
Xylenes (total)	0.629	0.00500	"	0.600	0.0115	103	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.181		"	0.200		90.5	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.148		"	0.200		74.0	60-140			

Matrix Spike Dup (0111001-MSD2)

Source: MJI0071-01

Prepared & Analyzed: 09/11/00

Benzene	0.201	0.00500	mg/kg	0.200	ND	101	60-140	1.50	25	
Toluene	0.207	0.00500	"	0.200	0.00870	99.1	60-140	1.95	25	
Ethylbenzene	0.207	0.00500	"	0.200	ND	103	60-140	2.94	25	
Xylenes (total)	0.636	0.00500	"	0.600	0.0115	104	60-140	1.11	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.192		"	0.200		96.0	70-130			
<i>Surrogate: 4-Bromofluorobenzene</i>	0.144		"	0.200		72.0	60-140			





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

**Total Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0I14009 - EPA 3050B										
Blank (0I14009-BLK1)										
Lead	ND	10.0	mg/kg							Prepared: 09/13/00 Analyzed: 09/15/00
LCS (0I14009-BS1)										
Lead	92.3	10.0	mg/kg	100		92.3	80-120			Prepared: 09/13/00 Analyzed: 09/15/00
Matrix Spike (0I14009-MS1)										
Lead	157	10.0	mg/kg	100	82.1	74.9	80-120			Prepared: 09/13/00 Analyzed: 09/15/00 Q-01
Matrix Spike Dup (0I14009-MSD1)										
Lead	157	10.0	mg/kg	100	82.1	74.9	80-120	0	20	Prepared: 09/13/00 Analyzed: 09/15/00 Q-01





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

**STLC CAM Metals by EPA 6000/7000 Series Methods - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0I20024 - Title 22-STLC

Blank (0I20024-BLK1)

Prepared: 09/05/00 Analyzed: 09/20/00

Lead ND 0.200 mg/l

Blank (0I20024-BLK2)

Prepared: 09/05/00 Analyzed: 09/20/00

Lead ND 0.200 mg/l

LCS (0I20024-BS1)

Prepared: 09/05/00 Analyzed: 09/20/00

Lead 1.94 0.200 mg/l 2.00 97.0 80-120

Matrix Spike (0I20024-MS1)

Source: MJH0810-05

Prepared: 09/05/00 Analyzed: 09/20/00

Lead 3.06 0.200 mg/l 2.00 1.28 89.0 80-120

Matrix Spike Dup (0I20024-MSD1)

Source: MJH0810-05

Prepared: 09/05/00 Analyzed: 09/20/00

Lead 3.10 0.200 mg/l 2.00 1.28 91.0 80-120 1.30 20





Cambria - Oakland 1144 65th St, Suite B Oakland CA, 94608	Project: - Project Number: - Project Manager: Darryk Attaide	Reported: 09/26/00 18:00
-----------------------------------------------------------------	--------------------------------------------------------------------	------------------------------------

**METALS - Quality Control
Del Mar Analytical, Colton**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
Batch C0I1114 - Org Pb										
Blank (C0I1114-BLK1)				Prepared: 09/11/00 Analyzed: 09/12/00						
Organic Lead	ND	1.0	mg/kg							
LCS (C0I1114-BS1)				Prepared: 09/11/00 Analyzed: 09/12/00						
Organic Lead	10.9	1.0	mg/kg	10.0		109	70-115			
Matrix Spike (C0I1114-MS1)				Source: CJ10065-01 Prepared: 09/11/00 Analyzed: 09/12/00						
Organic Lead	15.7	1.0	mg/kg	10.0	5.8	99.0	70-115			
Matrix Spike Dup (C0I1114-MSD1)				Source: CJ10065-01 Prepared: 09/11/00 Analyzed: 09/12/00						
Organic Lead	14.9	1.0	mg/kg	10.0	5.8	91.0	70-115	5.23	20	





Cambria - Oakland
1144 65th St, Suite B
Oakland CA, 94608

Project: -
Project Number: -
Project Manager: Darryk Attaide

Reported:
09/26/00 18:00

Notes and Definitions

- D-15 Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- S-03 The surrogate recovery for this sample is outside of established control limits. Review of associated QC indicates the recovery for this surrogate does not represent an out-of-control condition.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference





SEQUOIA ANALYTICAL CHAIN OF CUSTODY

- 885 Jarvis Drive • Morgan Hill, CA 95037 • (408) 776-9800 • FAX (408) 782-6308
- 819 Striker Ave., Suite 8 • Sacramento, CA 95834 • (916) 921-9600 FAX (916) 921-0100
- 404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 FAX (925) 988-9873
- 1455 McDowell Blvd. North, Suite D • Petaluma, CA 94954 • (707) 792-1865 FAX (707) 792-0342
- 1551 Industrial Road • San Carlos, CA 94070 • (650) 232-9600 FAX (650) 232-9612

Company Name: <i>Equiva Services LLC</i>			Project Name: <i>540 Hegenberger Oakland CA</i>		
Mailing Address: <i>P.O. Box 7869</i>			Billing Address (if different): <i>Equiva Engineer - Karen Pedraza</i>		
City: <i>Burbank</i>	State: <i>CA</i>	Zip Code: <i>91510-7869</i>	Incident # <i>98995752</i>		<i>(559) 645-9306</i>
Telephone: <i>(510) 420-3339</i>		FAX #: <i>(510) 420-9170</i>		P.O. #: <i>242-0414</i>	
Report To: <i>Darryk Ataide</i>		Sampler: <i>James Loetterle</i>		QC Data: <input type="checkbox"/> Level D (Standard) <input type="checkbox"/> Level C <input type="checkbox"/> Level B <input type="checkbox"/> Level A	

Turnaround 10 Working Days 3 Working Days 2 - 8 Hours
 Time: 7 Working Days 2 Working Days
 5 Working Days 4 Hours

Analyses Requested

Drinking Water
 Waste Water
 Other

Client Sample I.D.	Date/Time Sampled	Matrix Desc.	# of Cont.	Cont. Type	Sequoia's Sample #	TPH 9	BTEX	VOCs	Metals	Other	Comments
1. SBSP	8-29-00 / 2:30 pm	Soil	4	Brown Tube		X	X	X			★ See attached sheet! ★
2.											
3.											
4.											
5.											
6.											
7.											
8.											
9.											
10.											

Relinquished By: <i>[Signature]</i>	Date: <i>9-1-00</i>	Time: <i>11:09 AM</i>	Received By: <i>[Signature]</i>	Date: <i>11:00</i>	Time: <i>9-5-00</i>
Relinquished By: <i>[Signature]</i>	Date: <i>9-5</i>	Time: <i>14:30</i>	Received By: <i>[Signature]</i>	Date: <i>9/5</i>	Time: <i>14:05</i>
Relinquished By: <i>[Signature]</i>	Date: <i>9/5</i>	Time:	Received By: <i>[Signature]</i>	Date: <i>9/5</i>	Time: <i>19:00</i>

866 2:54 PM

Pink - Client
Yellow - Sequoia
White - Sequoia



Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

11 January, 2001

Nick Sudano
Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose, CA 95112

RE: 540 Hegenberger Rd.
Sequoia Report: MJL0580

Enclosed are the results of analyses for samples received by the laboratory on 12/15/00 11:37. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wayne Stevenson'.

Wayne Stevenson
Client Services Manager

CA ELAP Certificate #1210





**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose CA, 95112	Project: 540 Hegenberger Rd. Project Number: 540 Hegenberger Rd., Oakland CA Project Manager: Nick Sudano	Reported: 01/11/01 11:56
--------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	-----------------------------

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	MJL0580-01	Water	12/15/00 13:06	12/15/00 11:37
MW-2	MJL0580-02	Water	12/15/00 13:45	12/15/00 11:37
MW-3	MJL0580-03	Water	12/15/00 14:45	12/15/00 11:37
MW-1	MJL0580-04	Water	12/15/00 14:15	12/15/00 11:37

Sequoia Analytical - Morgan Hill

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


Wayne Stevenson, Client Services Manager





Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose CA, 95112

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd., Oakland CA
Project Manager: Nick Sudano

Reported:
01/11/01 11:56

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (MJL0580-01) Water Sampled: 12/15/00 13:06 Received: 12/15/00 11:37									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	0L20003	12/20/00	12/20/00	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	2.50	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		70.2 %		70-130	"	"	"	"	
MW-2 (MJL0580-02) Water Sampled: 12/15/00 13:45 Received: 12/15/00 11:37									
Purgeable Hydrocarbons	ND	200	ug/l	4	0L21004	12/21/00	12/21/00	DHS LUFT	
Benzene	ND	2.00	"	"	"	"	"	"	
Toluene	ND	2.00	"	"	"	"	"	"	
Ethylbenzene	ND	2.00	"	"	"	"	"	"	
Xylenes (total)	ND	2.00	"	"	"	"	"	"	
Methyl tert-butyl ether	6320	125	"	50	"	"	12/21/00	"	M-03
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.7 %		70-130	"	"	12/21/00	"	
MW-3 (MJL0580-03) Water Sampled: 12/15/00 14:45 Received: 12/15/00 11:37									
Purgeable Hydrocarbons	5190	500	ug/l	10	0L22002	12/22/00	12/22/00	DHS LUFT	
Benzene	438	5.00	"	"	"	"	"	"	
Toluene	839	5.00	"	"	"	"	"	"	
Ethylbenzene	483	5.00	"	"	"	"	"	"	
Xylenes (total)	530	5.00	"	"	"	"	"	"	
Methyl tert-butyl ether	19100	250	"	100	"	"	12/21/00	"	A-01a,M-03
<i>Surrogate: a,a,a-Trifluorotoluene</i>		115 %		70-130	"	"	12/22/00	"	





Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose CA, 95112

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd., Oakland CA
Project Manager: Nick Sudano

Reported:
01/11/01 11:56

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (MJL0580-04) Water Sampled: 12/15/00 14:15 Received: 12/15/00 11:37									
Purgeable Hydrocarbons	35600	5000	ug/l	100	0L22002	12/22/00	12/22/00	DHS LUFT	
Benzene	1310	50.0	"	"	"	"	"	"	
Toluene	ND	50.0	"	"	"	"	"	"	
Ethylbenzene	ND	50.0	"	"	"	"	"	"	
Xylenes (total)	ND	50.0	"	"	"	"	"	"	
Methyl tert-butyl ether	136000	2500	"	1000	"	"	12/20/00	"	A-01,M-03
Surrogate: <i>a,a,a</i> -Trifluorotoluene		104 %		70-130	"	"	12/22/00	"	





**Sequoia
Analytical**

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose CA, 95112

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd., Oakland CA
Project Manager: Nick Sudano

Reported:
01/11/01 11:56

**MTBE Confirmation by EPA Method 8260A
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (MJL0580-03) Water	Sampled: 12/15/00-14:45 Received: 12/15/00 11:37								
Methyl tert-butyl ether	11800	500	ug/l	500	1A02016	12/29/00	12/29/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130					





**Sequoia
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Morgan Hill, CA 95037
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Blaine Tech Services (Shell)
1680 Rogers Avenue
San Jose CA, 95112

Project: 540 Hegenberger Rd.
Project Number: 540 Hegenberger Rd., Oakland CA
Project Manager: Nick Sudano

Reported:
01/11/01 11:56

Notes and Definitions

- A-01 MTBE was prepared on 10/20/00
- A-01a MTBE was prepared on 12/20/00
- M-03 Sample was analyzed at a second dilution.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference



BLAINE

TECH SERVICES, INC.

1680 ROGERS AVENUE
 SAN JOSE, CALIFORNIA 95112-1105
 FAX (408) 573-7771
 PHONE (408) 573-0555

P. 008
 TEL: 408 573 7771
 BLAINE TECH SERVICES, INC
 JAN. -12' 01 (PRI) 10:04

CONDUCT ANALYSIS TO DETECT

LAB SEQUOIA 1 of 1 DHS #
 ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND
 EPA RWQCB REGION _____
 LIA _____
 OTHER 98995752

CHAIN OF CUSTODY 001215 R2
 CLIENT Equiva - Karen Petryna
 SITE 540 Hegenberger Road
Oakland, CA

C = COMPOSITE ALL CONTAINERS

TPH - gas, BTEX
 MTBE by 8020
 MTBE by 8260
 TPH - diesel
 Oxygenates by 8260

SPECIAL INSTRUCTIONS
MTL0580
 Send invoice to Equiva
 Incident # 98995752
 Send report to Blaine Tech Services, Inc.
 ATTN: Nick Sudano

DATE	TIME	S=SOIL W=H ₂ O	MATRIX	CONTAINERS TOTAL	C	CONDUCT ANALYSIS TO DETECT					ADDL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
						TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260				
MW 4	12/15/00	1306	W	3	Acc. Vol.	01	X	X						
MW 2	1395	W	3			02	X	X					Confirm highest	
MW 3	1445		3			03	X	X					MTBE by 8260	
MW 1	1415		3			04	X	X						

SAMPLING COMPLETED 12/15/00 1500 | SAMPLING PERFORMED BY Jared Rowe | RESULTS NEEDED NO LATER THAN 5+d

RELEASED BY Jared Rowe | DATE 12/18 | TIME 8:33 | RECEIVED BY Thomas M | DATE 12/18/00 | TIME 8:33

RELEASED BY JM | DATE 12/18/00 | TIME 11:37 | RECEIVED BY MTT | DATE 12/16/00 | TIME 1137

RELEASED BY _____ | DATE _____ | TIME _____ | RECEIVED BY _____ | DATE _____ | TIME _____

SHIPPED VIA _____ | DATE SENT _____ | TIME SENT _____ | COOLER # _____

ATTACHMENT B

Soil Boring Logs



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-E
JOB/SITE NAME	oak1540	DRILLING STARTED	29-Aug-00
LOCATION	540 Hegenburger Road	DRILLING COMPLETED	29-Aug-00
PROJECT NUMBER	242-0414	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	7"	SCREENED INTERVAL	NA
LOGGED BY	J. Loetterle	DEPTH TO WATER (First Encountered)	7.0 ft (29-Aug-00)
REVIEWED BY	S. Bork, RG# 5626	DEPTH TO WATER (Static)	NA
REMARKS	Hand Augered to 5'. Located on the south side of Edes Ave. approximately 35' from the southeast corner.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	1.5	
							FILL black; damp; 3% clay, 37% silt, 60% sand; no plasticity; moderate estimated permeability.	4.5	
	5 8	SB-E-5.5		5			Clayey SILT (ML) black; stiff; damp; 35% clay, 45% silt, 20% sand; medium plasticity; low estimated permeability. @ 7' - organics; fine sand.		
	7 8	SB-E-10.5		10			@ 10' - light brown; very stiff; damp; 40% clay, 50% silt, 10% sand; high plasticity; very low estimated permeability.		
	5 7 8	SB-E-15.5		15	ML		@ 15' - light brown/dark brown; stiff; wet; 35% clay, 50% silt, 15% sand; low estimated permeability.		
	8 10 12	SB-E-20.5		20			@ 20' - grey/brown; very stiff; wet; 25% clay, 40% silt, 35% sand; medium plasticity.		
		SB-E-25.5		25	SM		Silty SAND (SM) 5% clay, 30% silt, 65% sand; no plasticity; moderate estimated permeability.	25.0	
								26.5	Bottom of Boring @ 26.5 ft

WELL LOG (PID) G:\OAS388C-1\GINTGINT.GPJ DEFAULT.GDT 10/10/00



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Equiva Services LLC	BORING/WELL NAME	SB-F
JOB/SITE NAME	oak540	DRILLING STARTED	29-Aug-00
LOCATION	540 Hegenburger Road	DRILLING COMPLETED	29-Aug-00
PROJECT NUMBER	242-0414	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	7"	SCREENED INTERVAL	NA
LOGGED BY	J. Loetterle	DEPTH TO WATER (First Encountered)	7.0 ft (29-Aug-00)
REVIEWED BY	S. Bork, RG# 5626	DEPTH TO WATER (Static)	NA
REMARKS	Hand Augered to 5'. Located on the south side of Edes Ave. approximately 120' from the southeast corner.		

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
				0			ASPHALT	1.5	<p>Portland Type I/II</p> <p>Bottom of Boring @ 11.5 ft</p>
	4 6	SB-F-5.50 SBP-F-6.0		5	SM		FILL black; damp; 3% clay, 37% silt, 60% sand; no plasticity; moderate estimated permeability; contains gravel sized pieces of brick, cobbles, and steel.	5.0	
	7 10 12	SB-F-10.5		10	ML		Silty SAND black; stiff; moist; 3% clay, 37% silt, 60% sand; no plasticity; moderate permeability; fine sand.	7.0	
				11.5			Clayey SILT greyish brown; very stiff; damp; 40% clay, 50% silt, 10% sand; high plasticity; low estimated permeability.	11.5	



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>SB-G</u>
JOB/SITE NAME	<u>oak1540</u>	DRILLING STARTED	<u>29-Aug-00</u>
LOCATION	<u>540 Hegenburger Road</u>	DRILLING COMPLETED	<u>29-Aug-00</u>
PROJECT NUMBER	<u>242-0414</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>7"</u>	SCREENED INTERVAL	<u>NA</u>
LOGGED BY	<u>J. Loetterle</u>	DEPTH TO WATER (First Encountered)	<u>9.5 ft (29-Aug-00)</u>
REVIEWED BY	<u>S. Bork, RG# 5626</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS	<u>Hand Augered to 5'. Located on the south side of Edes Ave., adjacent to the car wash, four feet away from the curb.</u>		

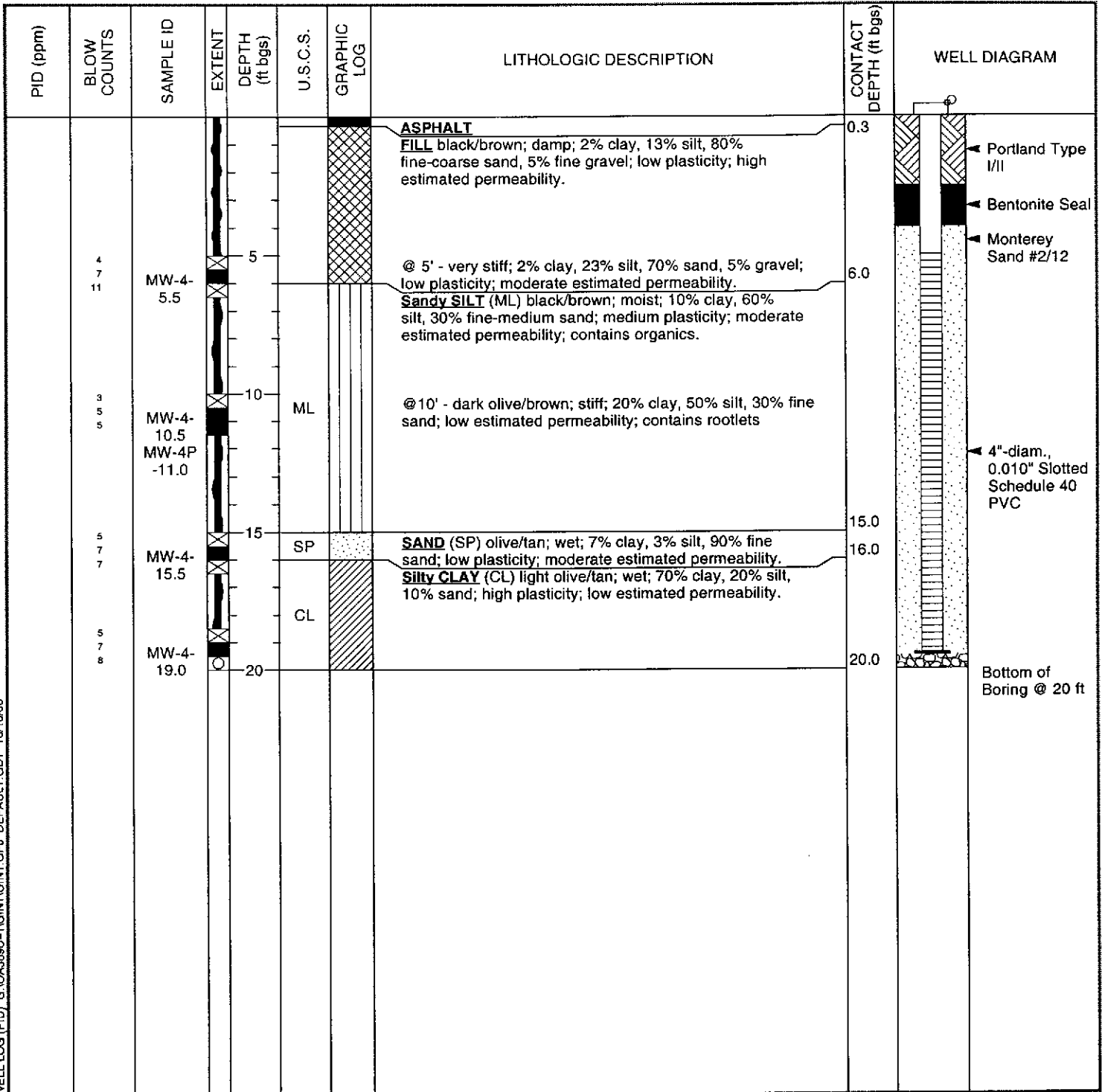
PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
							ASPHALT	1.5	
	8 7 6	SB-G- 5.5 SB-GP -6.0		5			FILL olive-grey; moist; 15% silt, 85% fine sand; no plasticity; high estimated permeability. @ 5' - stiff.	6.5	
	7 16 17	SB-G- 10.5		10	SM		Silty SAND (SM) @ 10' - olive-grey/brown; very stiff; moist; 3% clay, 37% silt, 60% fine sand; low plasticity; moderate estimated permeability.	11.5	
									Bottom of Boring @ 11.5 ft



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	<u>Equiva Services LLC</u>	BORING/WELL NAME	<u>MW-4</u>
JOB/SITE NAME	<u>oak1540</u>	DRILLING STARTED	<u>05-Sep-00</u>
LOCATION	<u>540 Hegenburger Road</u>	DRILLING COMPLETED	<u>05-Sep-00</u>
PROJECT NUMBER	<u>242-0414</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>10"</u>	SCREENED INTERVAL	<u>5 to 19.4 ft bgs</u>
LOGGED BY	<u>J. Loeffler</u>	DEPTH TO WATER (First Encountered)	<u>NA</u>
REVIEWED BY	<u>S. Bork, RG# 5626</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS	<u>Hand augered to 5 fbg. Located on the east side of Edes Ave., approximately 63 feet from the corner of Edes Ave. and Enterprise</u>		



WELL LOG (PID) G:\CA389C-1\GINT\GINT.GPJ_DEFAULT.GDT 10/1/000

ATTACHMENT C

Standard Field Procedures for Soil Borings and Monitoring Wells

CAMBRIA

STANDARD FIELD PROCEDURES FOR MONITORING WELLS

This document describes Cambria Environmental Technology's standard field methods for drilling, installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Well Construction and Surveying

Groundwater monitoring wells are installed in soil borings to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two ft above the well screen. A two feet thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security. The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and 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. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

CAMBRIA

STANDARD FIELD PROCEDURES FOR SOIL BORINGS

This document describes Cambria Environmental Technology's standard field methods for drilling and sampling soil borings. 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 product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or hydraulic push technologies. At least one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the borehole. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the split barrel sampler. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned 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.

CAMBRIA

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.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch type sampler or are collected from the open borehole using bailers. 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 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.

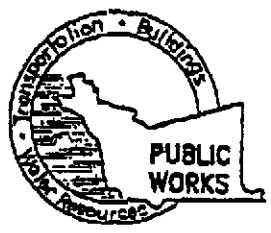
Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licenced waste haulers and disposed in secure, licenced facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55 gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licenced waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

ATTACHMENT D

Permits



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

100 W. MUIRST ST. HAYWARD CA. 94544-1395
PHONE (510) 670-5554 MAXLON MAGALANES/FRANK CODD (510) 670-5783
FAX (510) 782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 540 Hegenberger Rd.
Oakland CA.

APN 42-4323-1-7

CLIENT
Name Equiva Services LLC
Address P.O. Box 7869 Phone (510) 645-9306
City Burbank CA Zip 91510-7869

APPLICANT
Name Gambria Environmental Technology Inc.
James Loetterle Fax (510) 420-1910
Address 1144 65th St Suite B Phone (510) 420-3336
City Oakland CA Zip 94608

TYPE OF PROJECT	
Well Construction	Geotechnical Investigation
Cathodic Protection <input type="checkbox"/>	General <input type="checkbox"/>
Water Supply <input type="checkbox"/>	Contamination <input type="checkbox"/>
Monitoring <input checked="" type="checkbox"/>	Well Destruction <input type="checkbox"/>

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 <u>monitoring</u> <input checked="" type="checkbox"/>		

DRILLING METHOD:			
Mud Rotary <input type="checkbox"/>	Air Rotary <input type="checkbox"/>	Auger <input checked="" type="checkbox"/>	
Cable <input type="checkbox"/>	Other <input type="checkbox"/>		

DRILLER'S NAME Gregg Drilling and Testing Inc.

DRILLER'S LICENSE NO. CS7 # 485165

Monitoring Well Permit

WELL PROJECTS

★ Drill Hole Diameter 10 in. Maximum 20 ft. ★
 Casing Diameter 4 in. Depth 20 ft.
 Surface Seal Depth _____ ft. Owner's Well Number MW-4

GEOTECHNICAL PROJECTS	
Number of Borings <u>3</u>	Maximum Depth <u>25</u> ft.
Hole Diameter <u>7</u> in.	

ESTIMATED STARTING DATE 8-29-00
ESTIMATED COMPLETION DATE 9-1-00

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

APPLICANT'S SIGNATURE James Loetterle DATE 8-30-00

PLEASE PRINT NAME James Loetterle Rev. 6-5-00

FOR OFFICE USE

PERMIT NUMBER W00-540
WELL NUMBER _____
APN _____

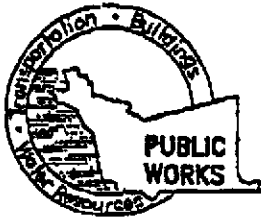
PERMIT CONDITIONS
Circled Permit Requirements Apply

- 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.
- 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.
- 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.
- D. GEOTECHNICAL**
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC**
Fill hole anode zone with concrete placed by tremie.
- 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.
- 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.

"After the Fact"

APPROVED [Signature] DATE 9-5-00



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

100 F. MUIRST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-5554 MARLON MAGAT/LANES/FRANK CODD (510) 670-6783

FAX (510)782-1939

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 540 Hegenberger Rd.
Oakland CA.

APN 42-4373-1-7

CLIENT

Name Equiva Services LLC
Address P.O. Box 7869 Phone (559) 645-9306
City Burbank CA Zip 91510-7869

APPLICANT

Name Cambria Environmental Technology Inc.
James Loetterle Fax (510) 420-9170
Address 1144 65th St Suite B Phone (510) 420-3836
City Oakland CA Zip 94608

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	<input type="checkbox"/>

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 <u>monitoring</u>	<input checked="" type="checkbox"/>

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

DRILLER'S NAME Gregg Drilling and Testing Inc.

DRILLER'S LICENSE NO. CS7 # 485165

WELL PROJECTS

Drill Hole Diameter	<u>10</u> in.	Maximum	
Casing Diameter	<u>4</u> in.	Depth	<u>20</u> ft.
Surface Seal Depth	_____ ft.	Owner's Well Number	<u>MW-4</u>

GEOTECHNICAL PROJECTS

Number of Borings	<u>3</u>	Maximum	
Hole Diameter	<u>7</u> in.	Depth	<u>25</u> ft.

Soil Boring Permit *

ESTIMATED STARTING DATE 8-29-00

ESTIMATED COMPLETION DATE 9-1-00

APPROVED _____

DATE 9-5-00

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

APPLICANT'S SIGNATURE [Signature] DATE 8-30-00

PLEASE PRINT NAME James Loetterle Rev.6-5-00

FOR OFFICE USE

PERMIT NUMBER W00-541
WELL NUMBER _____
APN _____

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.
- 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.
- 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.
- D. GEOTECHNICAL**
Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.
- E. CATHODIC**
Fill hole anode zone with concrete placed by tremie.
- 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.
- 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.

"After the fact"

[Signature]

Recording Requested by:
CITY OF OAKLAND

2000158167
OFFICIAL RECORDS OF
ALAMEDA COUNTY
PATRICK O'CONNELL

05/25/2000 11:08 AM
RECORDING FEE: 28.00



Handwritten: A/S
8/2

When Recorded Mail to:
City of Oakland
Community & Economic Development Agency
Building Services Division,
Engineering Information
250 Frank H. Ogawa Plaza, 2nd Floor
Oakland, CA 94612

TAX ROLL PARCEL NUMBER
(ASSESSOR'S REFERENCE NUMBER)

042	4323	001	07
MAP	BLOCK	PARCEL	SUB

Address: 540 Hegenberger Road, Oakland, California

Space Above for Recorder's Use Only

MINOR ENCROACHMENT PERMIT AND AGREEMENT

Equilon Enterprises LLC, a general partnership, the owners of certain real property described in the Grant Deed number 98-252223, dated July 17, 1998, commonly known as 540 Hegenberger Road, Oakland, Alameda County, California is hereby granted a Conditional Revocable Permit to encroach into the public right-of-way of Edes Avenue in Oakland with one monitoring well. The location of said encroachment shall be as delineated in Exhibit 'A' attached hereto and made a part hereof.

The permittees agree to comply with and be bound by the conditions for granting an Encroachment Permit attached hereto and made a part hereof.

This agreement shall be binding upon the undersigned, the present owners of the property described above, and their successors in interest thereof.

In witness whereof, I, Matt Gaffney, have set my signature this 27 day of April, 2000.

Equilon Enterprises, LLC

Handwritten signature: Matt J. Gaffney
MATT GAFFNEY, Owner Representative

Dated: 5-11-2000

By: *Handwritten signature: Calvin N. Wong*
CALVIN N. WONG
Director of Building Services

For:
WILLIAM E. CLAGGETT
Executive Director, Community & Economic
Development Agency

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

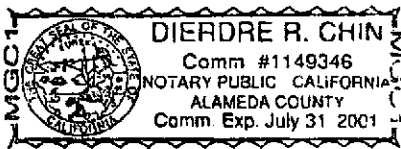
State of Calif

County of Alameda

On April 27, 2000 before me, Dierdre R. Chin, Notary Public
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared Matt Gaffney
Name(s) of Signer(s)

personally known to me -- OR -- proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Dierdre R. Chin
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: MINOR ENCROACHMENT PERMIT & AGREEMENT

Document Date: APRIL 27, 2000 Number of Pages: 6

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: MATT GAFFNEY

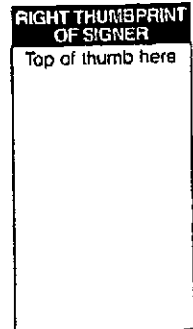
- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: Representative



Signer Is Representing:
Equinox Enterprises LLC

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing:

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

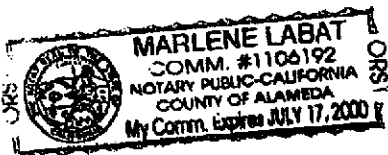
State of California

County of Alameda

On May 11, 2000 before me, Marlene Labat
Date Name and Title of Officer (e.g., "Jane Doe, Notary Public")

personally appeared CALVIN N. WONG
Name(s) of Signer(s)

personally known to me - ~~OR~~ - proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



WITNESS my hand and official seal.

Marlene Labat
Signature of Notary Public

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: Minor Encroachment Permit & Agreement/540 Hegenberger Rd.

Document Date: 4/27/2000 Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: Calvin N. Wong

- Individual
- Corporate Officer
Title(s): Director of Building Services
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer Is Representing:

City of Oakland

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

Signer's Name: _____

- Individual
- Corporate Officer
Title(s): _____
- Partner — Limited General
- Attorney-in-Fact
- Trustee
- Guardian or Conservator
- Other: _____

Signer Is Representing:

RIGHT THUMBPRINT OF SIGNER
Top of thumb here

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL
ENGINEERING



PERMIT NUMBER X0001394		SITE ADDRESS/LOCATION 540 Hegenberg Rd
APPROX. START DATE	APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS 485165		CITY BUSINESS TAX #

ATTENTION:

1) State law requires that the contractor/owner call *Underground Service Alert (USA)* two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1 (800) 642-2444. UNDERGROUND SERVICE ALERT (USA) #: 243-912

2) **48 hours prior to starting work, YOU MUST CALL (510) 238-3651 TO SCHEDULE AN INSPECTION.**

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500):

I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

I am exempt under Sec. _____, B&PC for this reason _____.

WORKER'S COMPENSATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # _____ Company Name _____

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars (\$100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

Signature of Permittee: [Signature] Agent for Contractor Owner Date: 8-24-00

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
ISSUED BY <u>[Signature]</u>		DATE ISSUED <u>8-24-00</u>	

ATTACHMENT E

Survey Data

Virgil Chavez Land Surveying

312 Georgia Street, Suite 225
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

September 26, 2000
Project No. 1603-22

James Loetterle
Cambria Environmental
1144 65th Street, Suite C
Oakland, Ca. 94608

Subject: Monitoring Well Survey
Shell Service Station
540 Hegenberger Road
Oakland, Ca.

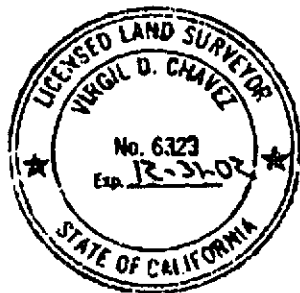
Dear James:

This is to confirm that we have proceeded at your request to survey the ground water monitoring wells located at the above referenced location. The survey was performed on September 21, 2000. The benchmark for the survey was a PK nail & shiner in the median island on Hegenberger opposite the site. The station and offset data are relative to the back of sidewalk on Hegenberger, beginning at the approximate southerly property line.
Benchmark Elev. = 10.76 Ft., MSL.

<u>Well No.</u>	<u>Rim Elevation</u>	<u>TOC Elevation</u>	<u>Station</u>	<u>Offset</u>
MW - 1	11.08'	10.54'	0+97.23	98.70 (Rt)
MW - 2	9.82'	9.21'	1+78.92	45.26 (Rt)
MW - 3	9.71'	9.45'	1+02.83	7.89 (Rt)
MW - 4	10.24'	9.88'	1+21.53	196.56 (Rt)

Measurements taken at approximate north side of top of box, top of casings were marked at location of measurements.

Sincerely,



Virgil D. Chavez
Virgil D. Chavez, PLS 6323

ATTACHMENT F

Soil Disposal Confirmation

DISPOSAL CONFIRMATION

Consultant	CAMBRIA
Contact	JAMES LOETTERLE
Phone \ Fax	510-420-3336/510-420-9170
Client	SHELL OIL
Station # \ Wic#	CRMT# CHD000060, INCIDENT# 98995752
Site Address	540 HEGENBERGER RD.
City \ State	OAKLAND, CA.
Estimated Tons	5 YARDS
Actual Tons	1.37 TONS
Disposal Date	10-12-00
Disposal Facility	FORWARD LANDFILL
Contact	BRAD BONNER
Phone	800-204-4242
Transporter	MANLEY & SONS TRUCKING
Contact	TIM MANLEY
Phone \ Fax	916-381-6864 \ 381-1573
Date \ Time	10-23-00
Invoice#	10995



NORTHERN CALIFORNIA SALES OFFICE • SPECIAL WASTE

Forward • Keller Canyon • Newby Island • Ox Mountain



ALLIED WASTE COMPANIES

Cambria Environmental
1144 65th Street, Suite C
Oakland, CA 94608

Attr: Mr. Ataide

Re: Approval No. 995800/CRMT# CHD000060
Gasoline Contaminated Soil
540 Hegenberger Road

Dear Mr. Ataide:

FORWARD INC. is pleased to inform you that the approximately 5 tons of Gasoline Contaminated Soil from the referenced site has been approved for acceptance at our Manteca, California Landfill as a Class 2 waste. This approval has been based on the information provided in the waste profile and associated materials submitted on behalf of Equilon Enterprises LLC (Generator). Acceptance of the waste is subject to regulatory requirements, and is also subject to the "Terms and Conditions" agreed to and signed by Generator in the waste profile.

Your approval number for this project will be 995800. This number should be used in all scheduling and correspondence with **FORWARD, INC.** regarding this waste profile.

This profile shall remain in effect until October 10, 2001, or until any significant changes in the waste stream occur. At that time, **FORWARD, INC.** will re-evaluate the profile, and current analytical data and requirements will be reviewed.

Please schedule all waste shipments with the Landfill (209-982-4298) at least 24 hours in advance. The landfills hours of operation are Monday through Friday 6:00 am to 6:00 pm for soil, 6:00 am to 3:00 pm for asbestos, 6:00 am to 5:00 pm for all other waste types.

Thank you for the opportunity to be of service. Should you have any questions, please do not hesitate to contact me or our Customer Service at (800) 204-4242.

Sincerely,

Allied Waste Industries

Brad J. Bonner
Special Waste Sales Manager
Northern, CA

BJE/dc

ATTACHMENT G

Site Conceptual Model

SITE CONCEPTUAL MODEL

Date: December 13, 2000

Cambria Environmental Technology, Inc.

Site Address:	540 Hegenberger Road	Incident Number:	98995752
City:	Oakland	Regulator:	Alameda County Department of Environmental Health

Item	Evaluation Criteria	Comments/Discussion
1	Hydrocarbon Source	
1.1	Identify/Describe Release Source and Volume (if known)	During the line tightness test on February 6, 1998, a leak in the piping between the USTs and the western dispenser-island was discovered and repaired on the same day. Groundwater samples collected on March 6, 1998 at location SB-5 approximately 25 feet away from the leak contained 200,000 ppb TPHg, and 1,300,000 ppb MTBE respectively. The volume of release is unknown.
1.2	Discuss Steps Taken to Stop Release	The leak in the piping discovered on February 6, 1998 was repaired by Paradiso Mechanical on the same day.
2	Site Characterization	
2.1	Current Site Use/Status	The site is an active Shell-branded service station with three underground storage tanks (USTs) onsite.
2.2	Soil Definition Status	Defined. TPHg distribution in soil is defined by non-detection in soil samples from MW-2 downgradient to the north, MW-4 downgradient to the east, SB-4 crossgradient to the south, and 2.4 ppm TPHg in the sample from SB-1 upgradient to the southwest. Benzene distribution in soil is defined by non-detection in soil samples from MW-2, MW-4, 0.0057 ppm benzene in the sample from SB-4, and 0.094 ppm benzene in the sample from SB-1. MTBE distribution in soil is defined by non-detection in soil samples from MW-2, MW-4, 0.34 ppm MTBE in the soil sample from SB-4, and 0.40 ppm in the soil sample from SB-1.
2.3	Separate-Phase Hydrocarbon Definition Status	SPH has never been encountered at the site.
2.4	Groundwater Definition Status (BTEX)	Undefined. BTEX has been delineated in groundwater to the north by less than 20 ppb in well MW-2, to the east by less than 1 ppb in well MW-1, and to the south by non-detection in samples from borings SB-4 and SB-1. The groundwater sample from boring SB-G to the southeast contained 2080 ppb benzene.
2.5	BTEX Plume Stability and Concentration Trends	Unstable. BTEX concentrations decreased in MW-3 between the first and fourth quarters of 2000 from 5,210 ppb of benzene to 438 ppb of benzene. However, in well MW-1, benzene increased from <20.0 ppb to 1,310 ppb. MW-2 BTEX concentrations have remained stable over time.
2.6	Groundwater Definition Status (MTBE)	Undefined. MTBE is not detected upgradient in borings SB-1 and SB-4. MTBE has been detected downgradient in borings SB-E, SB-F, and SB-G.
2.7	MTBE Plume Stability and Concentration Trends	Unstable. MTBE concentrations have declined since weekly vacuum operations began in July 1999.

Item	Evaluation Criteria	Comments/Discussion
2.8	Groundwater Flow Direction, Depth Trends and Gradient Trends	The depth to groundwater ranges between 5 and 9 fbg. Groundwater flow direction ranges toward the north to the east. The hydraulic gradient is approximately 0.02.
2.9	Stratigraphy and Hydrogeology	The site is underlain by silty clay and clayey silt to an explored depth of 26.5 fbg. A discontinuous bed of silty sand covers the silty clay underneath SB-G and MW-4 to a depth of 16 fbg.
2.10	Preferential Pathways Analysis	<p>A 12-inch diameter sewer main is located on Edes Avenue, downgradient of the site. The sewer main is buried approximately one foot below mean sea level (msl), or approximately 10 fbg. The sewer conduit is graded to flow to the south. An 18-inch diameter storm drain conduit was also identified beneath Edes Avenue. This storm drain is graded to flow to the north across Edes Avenue and then to the south across Hegenberger Road. The storm drain ends at an unlined drainage ditch that parallels South Coliseum Way (Figure 1). Depth to groundwater at the site has ranged from approximately 5 to 12 fbg. Thus the groundwater table may have infiltrated the sewer and storm drain trenches and flowed preferentially within porous backfill. An eight-inch water main also runs beneath Edes Avenue in the site vicinity. Water mains however, are typically buried at shallow depths (less than five fbg), and are not likely to serve as potential conduits at the site.</p>
2.11	Other Pertinent Issues	<p>Groundwater sampling from undeveloped well MW-4 to the east should define BTEX and MTBE plumes. The groundwater plume from the site is likely not impacting the ARCO site across Edes Avenue. The MTBE concentration in the well closest to the ARCO site, MW-2 has never been over 14,000 ppb. The closest groundwater sample to the ARCO site, SB-E-W1 contained 17,900 ppb MTBE by EPA Method 8260. SB-E-W1 is a grab groundwater sample and the actual concentration is probably an order of magnitude less.</p>
3	Remediation Status	
3.1	Remedial Actions Taken	<p>Cambria initiated weekly high vacuum groundwater extraction from the four tank backfill wells (BW-A through BW-D) and monitoring wells MW-1 and MW-3 on July 29, 1999. Groundwater extraction from the tank backfill wells stopped in November 1999, but has continued in monitoring wells MW-1 and MW-3. Beginning in June 2000, vacuum truck operations were optimized to include extraction and treatment of soil vapors in addition to dissolved-phase hydrocarbons. Monthly dual-vacuum extraction events have continued in monitoring wells MW-1 and MW-3 since June 2000.</p>
3.2	Area Remediated	The area surrounding the USTs and dispenser islands.
3.3	Remediation Effectiveness	<p>Approximately 38,893 gallons of groundwater have been extracted from site wells since purging began. Approximately 7.56 pounds or 1.22 gallons of MTBE, less than 0.07 pounds or less than 0.01 gallons of benzene, and less than 1.20 pounds or less than 0.20 gallons of total purgeable hydrocarbons as gasoline (TPPH) have been removed. MTBE concentrations analyzed by EPA Method 8260 in MW-3 and MW-1 have decreased from 653,000 ppb and 150,000 ppb in July 1999 to 24,000 ppb and 71,100 ppb in September 2000 respectively.</p>

North

Not supported statement

Item	Evaluation Criteria	Comments/Discussion
4	Well and Sensitive Receptor Survey	
4.1	Shallow Groundwater Use	There is no known use for shallow groundwater.
4.2	Deep Groundwater Use	Deep groundwater use in the area is unknown.
4.3	Well Survey Results	Cambria performed a ½ mile radius sensitive receptor survey for the site in October 1999. Department of Water Resources records were reviewed to identify water wells. Topographic maps were reviewed to identify surface bodies of water. No receptors were identified as domestic water wells within a ½-mile radius of the site. Barney Chan with the ACHSCA, indicated to Cambria that there are two production well fields near the Oakland Coliseum known as the Fitchburg Well Field and the Damon Group Well Field. Current operations of these well fields are not known. However, both well fields are located greater than a ½ mile upgradient of the subject site, and are therefore not considered a sensitive receptor to contaminants originating from the Shell-branded service station.
4.4	Likelihood of Impact to Wells	Unlikely.
4.5	Likelihood of Impact to Surface Water	The closest surface body of water is an unlined drainage ditch, located approximately 225 feet crossgradient to the north/northwest of the USTs. Groundwater from the site is unlikely to impact surface water.
5	Risk Assessment	
5.1	Site Conceptual Exposure Model (current and future uses)	The site is currently an active Shell-branded service station. Impacted shallow groundwater exists near wells MW-1, MW-2 and MW-3, but likely does not extend downgradient to the north side of Edes Avenue. No enclosed buildings exist over the groundwater plume. The primary chemicals of concern are BTEX and MTBE.
5.2	Potential Exposure Pathways	1) Inhalation of vapors in outdoor air from impacted soil and groundwater. 2) Dermal contact and ingestion by construction workers.
5.3	Risk Assessment Status	No formal risk assessment has been performed.
5.4	Identified Human Exceedances	None identified or evaluated.
5.5	Identified Ecological Exceedances	None identified or evaluated.
6	Additional Recommended Data or Tasks	
6.1	Continue groundwater monitoring	Cambria discontinued monthly DVE Vac Ops at the end of 2000, and then discontinuing Vac Ops, and is continuing groundwater monitoring.

Attached: Groundwater Analytical Summary Table
Soil Boring Logs