CAMBRIA

ENVIRONMENTAL PROTECTION

99 NOV -2 PM 4:01

October 29, 1999

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

Re: **Well Installation Report**
Shell-branded Service Station
1285 Bancroft Avenue
San Leandro, California
Incident #98996067
Cambria Project #241-0504-008

Dear Ms. Shin:

On behalf of Equiva Services LLC (Equiva), Cambria Environmental Technology, Inc. (Cambria) is submitting the results of the well installation activities conducted on May 17, 18, and 19, 1999 at the above-referenced site. The objective of this installation was to further plume definition to the west and south of the site and to assess the potential risk to occupants of the residential area adjacent to the site. The investigation was conducted in accordance with our April 14, 1999 *Work Plan Addendum*, which was approved in the April 15, 1999 Alameda County Health Care Services Agency (ACHCSA) letter to Equiva. Presented below are summaries of the site background, investigation procedures, investigation results, and our conclusions and recommendations.

SITE BACKGROUND

Location: The operating Shell-branded service station is located at the northwest corner of Bancroft and Estudillo Avenues in San Leandro, California (Figures 1 and 2).

Surrounding Land Use: The area surrounding the site is primarily residential development.

Local Topography: The site is approximately 65 ft above mean sea level and slopes very gently towards San Francisco Bay to the west. San Leandro Creek is located approximately 500 feet northwest of the site.

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

Groundwater Depth and Flow Direction: In July 1999, depth to water in onsite monitoring wells ranged from 35.61 to 35.78 ft below ground surface. Groundwater flowed in a west to southwest direction.

Groundwater Monitoring: Four onsite monitoring wells existed at the site, prior to this installation, MW-1, MW-2, MW-3 and MW-4. During the third quarter of 1998, MW-3 reported the highest benzene concentration in groundwater at 1,100 micrograms per liter (µg/l). Maximum total petroleum hydrocarbons as gasoline (TPHg) concentration of 35,000 µg/l was detected in monitoring well MW-3.

INVESTIGATION PROCEDURES

The procedures for this subsurface investigation, described in Cambria's approved work plan, are summarized below. Analytical results for soil and groundwater collected from the soil boring are summarized in Tables 1 and 2 and presented as Attachment A. Boring logs and Cambria's standard field procedures for soil sampling are presented in Attachments B and C, respectively.

Personnel Present: John Riggi, Cambria Geologist, under the supervision of Registered Geologist Ailsa Le May.

Permits: Cambria obtained Alameda County Public Works Agency Drilling Permit # 99WR186, and City of San Leandro Application to Perform Work in the Public Right of Way Permit # 99186. Permits are included as Attachment D.

Drilling Company: Gregg Drilling of Martinez, California (License #485165).

Drilling Dates: May 17, 18, 19, 1999.

Drilling Method: Monitoring wells MW-6, MW-7, and MW-8 were drilled and sampled using a track-mounted limited access drilling rig equipped with six-inch hollow stem augers. After sampling, the borings were reamed with eight-inch hollow stem augers and

converted to monitoring wells. MW-5 was drilled and sampled with a B-61 hollow stem auger rig equipped with a California-modified split spoon sampler using hollow stem six-inch augers. MW-5 was reamed using ten-inch hollow stem augers and converted to a monitoring well

Number of Borings: Four borings. All borings were converted to monitoring wells, MW-5, MW-6, MW-7, and MW- 8 (Figure 2).

Boring Depths: All borings were drilled to 50 feet bgs (Attachment B)

Sediment Lithology: The site is underlain by gravelly fill to approximately 2 feet bgs underlain by clayey sands and clayey silts. A sandy gravel lenses was encountered from approximately 37 to 42 feet bgs in all borings except MW-7. Clayey sands continue beneath the sandy gravel to an explored depth of 50 feet bgs.

Monitoring Well Specifications: Wells MW-5, MW-6, MW-7, and MW-8 were installed to 50 feet bgs. Wells MW-6, MW-7, MW-8 were constructed of two-inch diameter scheduled 40 PVC with 0.010-inch slotted screen from 25 to 50 feet bgs (Attachment B). Well MW-5 was constructed of four-inch diameter scheduled 40 PVC with 0.010-inch slotted screen from 25 to 50 feet bgs. Monterey sand # 3 was used as a filter pack for all wells.

Monitoring Well Development: Wells MW-5, MW-6, MW-7, MW-8 were developed by Blaine Tech Services (BTS) of San Jose, California on May 28, 1999. Well development field sheets are included in Attachment E.

Monitoring Well Sampling: Wells MW-5, MW-6, MW-7, and MW-8 were sampled on June 14, 1999. Per RWQCB guidelines, non purged and purged samples were collected. Groundwater analytical results are summarized in Table 2 and included in Attachment A.

Well Elevation Survey: The top of casing elevations of wells MW-5, MW-6, MW-7 and MW-8 were surveyed to mean sea level on June 21, 1999 by Virgil Chavez Land Surveying of Vallejo, California. Well elevation survey data is presented as Attachment F.

Groundwater Depth: The groundwater table was encountered at approximately 35 feet bgs.

Chemical Analyses: Soil and groundwater samples from each soil boring were analyzed for:

- TPHg by modified EPA Method 8015;
- Methyl tert-butyl ether (MTBE), benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020; and
- EPA Method 8260 confirmed the highest detection of MTBE.

In addition, selected soil samples were analyzed for fractional organic carbon, dry bulk density, moisture, and porosity.

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

- TPHg by modified EPA Method 8015;
- BTEX by EPA Method 8020;
- CAM metals: TTLC for all metals;
- STLC for all metals detected at 10 times the TTLC maximum; and
- Organic lead for lead over 13 mg/kg,

Soil Handling: Soil cuttings produced from the borings were disposed of at Forward Landfill in Manteca, California on April 19, 1999. Disposal confirmation is presented as Attachment G.

INVESTIGATION RESULTS

Analytical Results for Soil Samples: Soil samples analyzed from monitoring well MW-7 were reported below detection limits for all constituents. Source area well MW-5 reported maximum

TPHg and benzene concentrations of 10.5 mg/kg at 40.5 feet bgs, and 0.0475 mg/kg at 35.5 feet bgs, respectively. Monitoring well MW-6 reported all constituents below detection limits above 35 feet bgs. TPHg and benzene concentrations of 273 mg/kg and 1.12 mg/kg were detected in MW-6 at 35.5 feet bgs, respectively. Cross-gradient offsite well MW-8 reported all analyses below detection limits with the exception of trace MTBE concentrations by EPA Method 8020 of 0.212 mg/kg and 0.0532 mg/kg at 40.5 and 45.5 feet bgs. EPA Method 8260 reported a maximum MTBE concentration of 2.25 mg/kg in soil sample MW-5 at 35.5 feet bgs.

Analytical Results for Groundwater: Groundwater samples collected on June 4, 1999 by BTS reported a maximum TPHg concentration of 80,400 µg/l in well MW-5. Monitoring well MW-6 reported the maximum benzene concentration of 6,830 µg/l and a maximum MTBE concentration reported by EPA Method 8260 of 24,300 µg/l.

Irrigation Well Sampling: While coordinating access to the properties located at at 595-599 Callan Avenue and 560-572 Estudillo Avenue, CWP Property Management notified Cambria that an active irrigation well existed within the west driveway of the apartment complex (Figure 2). On June 4,1999 BTS sampled the irrigation well after approximately 500 gallons of groundwater was purged from the irrigation well. Groundwater samples collected from the irrigation well did not contain concentrations of TPHg, BTEX, and MTBE above method detection limits.

CONCLUSIONS AND RECOMMENDATIONS

Petroleum hydrocarbon and MTBE distribution in soil appears to be limited as concentrations were detected only in the capillary fringe samples for all newly installed borings. The distribution of petroleum hydrocarbons and MTBE in groundwater is defined to the north by monitoring well MW-7 and to the south by monitoring well MW-8. Petroleum hydrocarbons and MTBE in groundwater are distributed to the west as the highest concentrations were detected in wells MW-5 and MW-6. To further evaluate hydrocarbon concentrations in groundwater and assess plume stability, Cambria will continue groundwater monitoring and sampling at the site.

Petroleum hydrocarbons and MTBE concentrations were below detection limits in the groundwater sample collected from the irrigation well down gradient of the site. Therefore, it does not appear there is an immediate human health risk associated with the operation of the irrigation well. However, the continued use of the irrigation well may have a hydraulic effect on the distribution of contaminants down gradient of the site. Cambria is currently working towards establishing city supplied water service for the apartment complex and discontinuing the use of the irrigation well.

CLOSING

We appreciate your continued assistance with this project. Please call Darryk Ataide at (510) 420-3339 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.

Darryk Ataide, REA I
Project Manager

Ailsa S. LeMay, R.G.
Senior Geologist

REGISTERED GEOLOGIST
AILSA S. LE MAY
NO. 6717
STATE OF CALIFORNIA

Figures: 1 - Site Vicinity Map
2 - Monitoring Well Location Map

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

Attachments: A - Analytical Reports for Soil and Groundwater
B - Soil Boring Logs
C - Standard Field Procedures for Monitoring Well Installation
D - Drilling and Encroachment Permit
E – Well Development Field Data Sheets
F - Monitoring Well Survey Data
G - Disposal Confirmation

cc: Karen Petryna, Equiva Services LLC, P.O. Box 6249 Carson, CA 90749-6249

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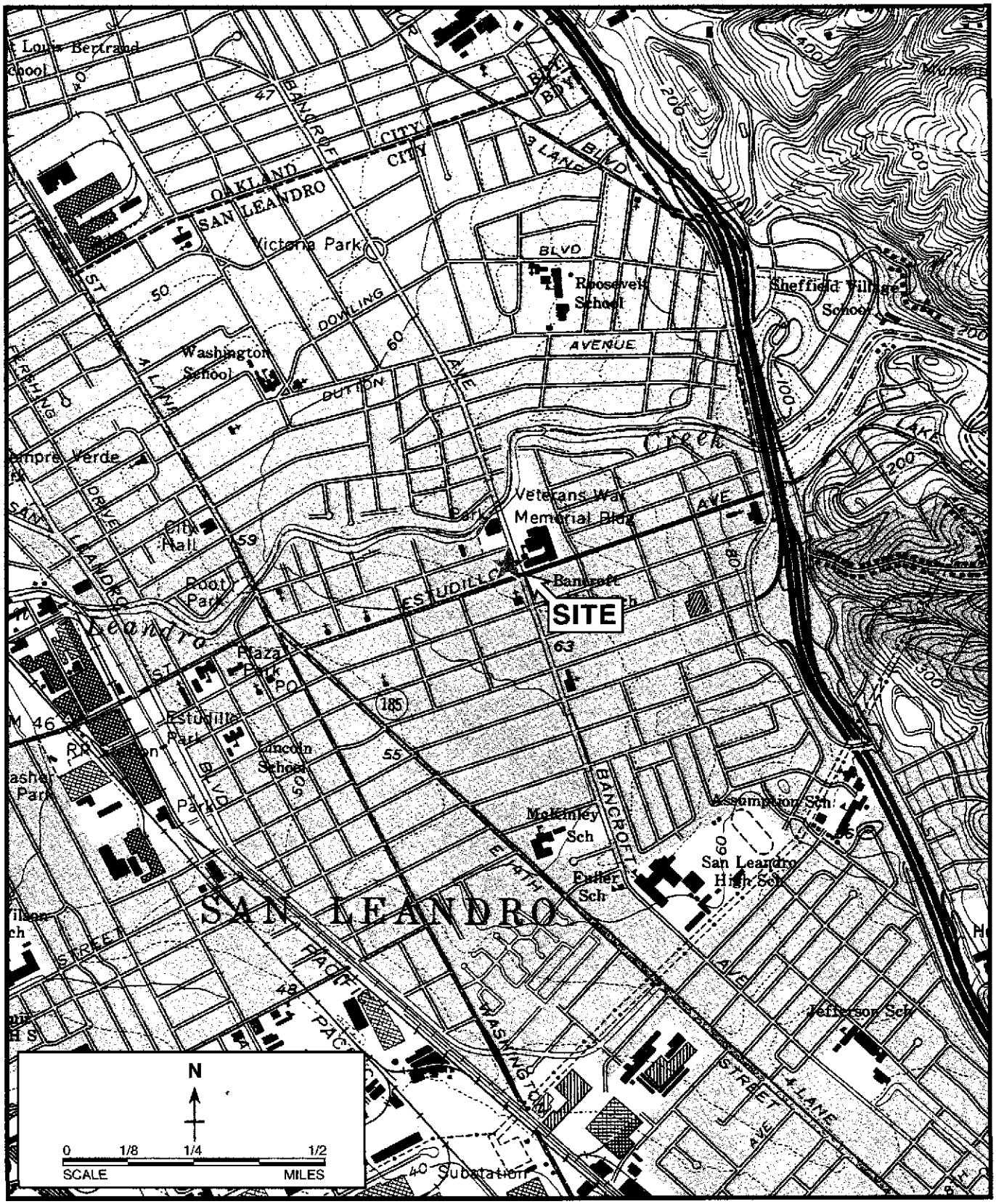

Figure 1. Vicinity Map - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Table 1. Soil Boring Analytic Data - Shell-branded Service Station - WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Sample ID	Depth	TPHG	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
		← (Concentrations reported in mg/kg) →					
May 17, 1998 Samples:							
MW-6 (5.5)	5.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-6 (10.5)	10.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-6 (15.5)	15.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-6 (20.5)	20.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-6 (25.5)	25.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-6 (30.5)	30.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-6 (35.5)	35.5'	273	2.58 (2.58)	1.12	1.31	3.1	14.2
MW-6 (40.5)	40.5'	96.1	1.31	0.665	1.07	1.25	5.51
MW-6 (45.5)	45.5'	1.83	1.47	0.0151	0.0173	0.0141	0.0875
MW-7 (5.5)	5.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7 (10.5)	10.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7 (15.5)	15.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7 (20.5)	20.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7 (25.5)	25.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7 (30.5)	30.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7 (35.5)	35.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7 (40.5)	40.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-7 (45.5)	45.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
May 18, 1998 Samples:							
MW-5 (5.5)	5.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-5 (10.5)	10.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-5 (15.5)	15.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-5 (20.5)	20.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-5 (30.5)	30.5'	<1.0	1.08	<0.0050	<0.0050	<0.0050	<0.0050

Table 1. Soil Boring Analytic Data - Shell-branded Service Station - WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Sample ID	Depth	TPHG	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
		← (Concentrations reported in mg/kg) →					
MW-5 (35.5)	35.5'	1.91	4.68 (2.25)	0.0475	<0.0050	0.0172	0.0159
MW-5 (40.5)	40.5'	10.5	0.093	0.0279	0.486	0.179	1.02
MW-5 (45.5)	45.5'	6.67	<0.050	0.0264	0.0346	0.0298	77
May 19, 1998 Samples:							
MW-8 (5.5)	5.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8 (10.5)	10.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8 (15.5)	15.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8 (20.5)	20.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8 (25.5)	25.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8 (30.5)	30.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8 (35.5)	35.5'	<1.0	<0.050	<0.0050	<0.0050	<0.0050	<0.0050
MW-8 (40.5)	40.5'	<1.0	0.212 (0.210)	<0.0050	<0.0050	<0.0050	<0.0050
MW-8 (45.5)	45.5'	<1.0	0.0532	<0.0050	<0.0050	<0.0050	<0.0050

Abbreviations/Notes:

TPPH = Total purgable petroleum hydrocarbons as gasoline by modified EPA Method 8015.
TEPH = Total extractable petroleum hydrocarbons as diesel by modified EPA Method 8015.
Benzene, ethylbenzene, toluene, xylenes by EPA Method 8020.
MTBE = Methyl tert-butyl ether by EPA Method 8020. Parenthesis indicate confirmation analysis by EPA Method 8260
<n = Below detection limits for n milligrams per kilograms

Table 2. Groundwater Non Purge & Purge Analytical Data - Shell-branded Service Station, WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Description	Date Sampled	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
		◄ (concentrations in µg/L) ►					
MW-6NP	6/4/99	36000	4240	1680	1100	4160	11300 (17500)
MW-7NP	6/4/99	<50	<0.50	<0.50	<0.50	<0.50	<5.0
MW-8NP	6/4/99	<50	<0.50	<0.50	<0.50	<0.50	452
MW-5NP	6/4/99	159000	7190	39300	2450	16700	<5000
Irrigation Well	6/4/99	<50	<0.50	<0.50	<0.50	<0.50	<5.00
MW-5	6/4/99	80400	4400	26000	1480	11000	3660
MW-6	6/4/99	56900	6830	6050	1970	9060	17000 (24300)
MW-7	6/4/99	<50	0.663	<0.50	0.677	<0.50	11.7
MW-8	6/4/99	<50	<0.50	<0.50	<0.50	<0.50	186

Abbreviations and Notes:

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8020

MTBE = Methyl tert-butyl ether by EPA Method 8020. Result in parentheses indicates MTBE by EPA Method 8260

µg/L = Micrograms per liter

<n = Below detection limit of n µg/L

NP=No purge,

Attachment A

Analytical Reports for Soil and Groundwater

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

ANALYTICAL REPORT FOR L905400

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-5-5.5	L905400-01	Soil	5/18/99
MW-5-10.5	L905400-02	Soil	5/18/99
MW-5-15.5	L905400-03	Soil	5/18/99
MW-5-20.5	L905400-04	Soil	5/18/99
MW-5-25.5	L905400-05	Soil	5/18/99
MW-5-30.5	L905400-06	Soil	5/18/99
MW-5-35.5	L905400-07	Soil	5/18/99
MW-5-40.5	L905400-08	Soil	5/18/99
MW-5-45.5	L905400-09	Soil	5/18/99
comp 1	L905400-10	Soil	5/18/99
comp 2	L905400-11	Soil	5/18/99
comp 3	L905400-12	Soil	5/18/99
comp 4	L905400-13	Soil	5/18/99
comp (1-4)	L905400-14	Soil	5/18/99

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-5.5**
Laboratory Sample Number: **L905400-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*103*	*%*	

Sequoia Analytical

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San Carlos, CA 94070-4111
(650) 232-9600
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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-10.5**
Laboratory Sample Number: **L905400-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*94.0*	%	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-15.5**
Laboratory Sample Number: **L905400-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*95.5*	%	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-20.5**
Laboratory Sample Number: **L905400-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*90.5*	*%*	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-25.5**
Laboratory Sample Number: **L905400-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*97.5*	*%*	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-30.5**
Laboratory Sample Number: **L905400-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	**1.08**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*86.0*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-35.5**
Laboratory Sample Number: **L905400-07**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	6/1/99		1.00	**1.91**	mg/kg	2
Benzene	"	"	"		0.00500	**0.0475**	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	**0.0172**	"	
Xylenes (total)	"	"	"		0.00500	**0.0159**	"	
Methyl tert-butyl ether	"	"	"		0.0500	**4.68**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*93.0*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060099	6/17/99	6/17/99		0.100	**2.25**	mg/kg	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*70.0-121*		*102*	%	

Sequoia Analytical

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FAX (650) 232-9612

Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-40.5**
Laboratory Sample Number: **L905400-08**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	6/2/99		1.00	**10.5**	mg/kg	2
Benzene	"	"	"		0.00500	**0.0279**	"	
Toluene	"	"	"		0.00500	**0.486**	"	
Ethylbenzene	"	"	"		0.00500	**0.179**	"	
Xylenes (total)	"	"	"		0.00500	**1.02**	"	
Methyl tert-butyl ether	"	"	"		0.0500	**0.0930**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*62.0*	%	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-5-45.5**
Laboratory Sample Number: **L905400-09**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	**6.67**	mg/kg	I
Benzene	"	"	"		0.00500	**0.0264**	"	
Toluene	"	"	"		0.00500	**0.0346**	"	
Ethylbenzene	"	"	"		0.00500	**0.0298**	"	
Xylenes (total)	"	"	"		0.00500	**77.0**	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*81.0*	%	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **comp 1**
Laboratory Sample Number: **L905400-10**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	**0.0119**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*60.0-140*		*83.5*	%	

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(650) 232-9600
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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **comp 2**
Laboratory Sample Number: **L905400-11**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*60.0-140*		*83.5*	*%*	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **comp 3**
Laboratory Sample Number: **L905400-12**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*60.0-140*		*85.5*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **comp 4**
Laboratory Sample Number: **L905400-13**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	**1.14**	mg/kg	1
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*60.0-140*		*85.0*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **comp (1-4)**
Laboratory Sample Number: **L905400-14**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060008	5/28/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	**0.00840**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*60.0-140*		*84.5*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060008	**Date Prepared: 5/28/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060008-BLK1**									
Purgeable Hydrocarbons as Gasoline	5/28/99			**ND**	mg/kg	**1.00**				
Benzene	"			**ND**	"	**0.00500**				
Toluene	"			**ND**	"	**0.00500**				
Ethylbenzene	"			**ND**	"	**0.00500**				
Xylenes (total)	"			**ND**	"	**0.00500**				
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.192*	"	*60.0-140*	*96.0*			
LCS	**9060008-BS1**									
Benzene	5/28/99	0.200		0.200	mg/kg	70.0-130	100			
Toluene	"	0.200		0.197	"	70.0-130	98.5			
Ethylbenzene	"	0.200		0.205	"	70.0-130	102			
Xylenes (total)	"	0.600		0.583	"	70.0-130	97.2			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.186*	"	*60.0-140*	*93.0*			
Matrix Spike	**9060008-MS1**		**L905366-01**							
Benzene	5/28/99	0.200		0.212	mg/kg	60.0-140	**106**			
Toluene	"	0.200		0.210	"	60.0-140	**105**			
Ethylbenzene	"	0.200		0.221	"	60.0-140	**111**			
Xylenes (total)	"	0.600		0.626	"	60.0-140	**105**			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.198*	"	*60.0-140*	*99.0*			
Matrix Spike Dup	**9060008-MSD1**		**L905366-01**							
Benzene	5/28/99	0.200		0.212	mg/kg	60.0-140	**106**	25.0	**0**	
Toluene	"	0.200		0.212	"	60.0-140	**106**	25.0	**0.948**	
Ethylbenzene	"	0.200		0.225	"	60.0-140	**113**	25.0	**1.79**	
Xylenes (total)	"	0.600		0.631	"	60.0-140	**105**	25.0	**0**	
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.202*	"	*60.0-140*	*101*			

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060008	**Date Prepared: 5/28/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060008-BLK1**									
Purgeable Hydrocarbons as Gasoline	5/28/99			**ND**	mg/kg	**1.00**				
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: a,a,a-Trifluorotoluene	"	*0.200*		*0.192*	"	*70.0-130*	*96.0*			
LCS	**9060008-BS1**									
Benzene	5/28/99	0.200		0.200	mg/kg	70.0-130	100			
Toluene	"	0.200		0.197	"	70.0-130	98.5			
Ethylbenzene	"	0.200		0.205	"	70.0-130	102			
Xylenes (total)	"	0.600		0.583	"	70.0-130	97.2			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.186*	"	*70.0-130*	*93.0*			
Matrix Spike	**9060008-MS1**		**L905366-01**							
Benzene	5/28/99	0.200	ND	0.212	mg/kg	60.0-140	**106**			
Toluene	"	0.200	ND	0.210	"	60.0-140	**105**			
Ethylbenzene	"	0.200	ND	0.221	"	60.0-140	**110**			
Xylenes (total)	"	0.600	ND	0.626	"	60.0-140	**104**			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.198*	"	*70.0-130*	*99.0*			
Matrix Spike Dup	**9060008-MSD1**		**L905366-01**							
Benzene	5/28/99	0.200	ND	0.212	mg/kg	60.0-140	**106**	25.0	**0**	
Toluene	"	0.200	ND	0.212	"	60.0-140	**106**	25.0	**0.948**	
Ethylbenzene	"	0.200	ND	0.225	"	60.0-140	**112**	25.0	**1.80**	
Xylenes (total)	"	0.600	ND	0.631	"	60.0-140	**105**	25.0	**0.957**	
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.202*	"	*70.0-130*	*101*			

Sequoia Analytical

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San Carlos, CA 94070-4111
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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060099	**Date Prepared: 6/17/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060099-BLK1**									
Methyl tert-butyl ether	6/17/99			**ND**	mg/kg	**0.100**				
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.66*	"	*70.0-121*	*106*			
LCS	**9060099-BS1**									
Methyl tert-butyl ether	6/17/99	2.50		2.23	mg/kg	70.0-130	89.2			
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.68*	"	*70.0-121*	*107*			
Matrix Spike	**9060099-MS1**		**L906233-01**							
Methyl tert-butyl ether	6/17/99	2.50	ND	2.10	mg/kg	60.0-140	**84.0**			
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.43*	"	*70.0-121*	*97.2*			
Matrix Spike Dup	**9060099-MSD1**		**L906233-01**							
Methyl tert-butyl ether	6/17/99	2.50	ND	2.05	mg/kg	60.0-140	**82.0**	25.0	**2.41**	
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.39*	"	*70.0-121*	*95.6*			

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/18/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
2	Chromatogram Pattern: Gasoline C6-C12
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

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No:

Date: 5.18.99
Page 1 of 2

Site Address: 1285 Bancroft San Leandro

WIC#: 98996067

Shell Engineer: Karen Petryna

Phone No.:
Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide

Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: J. Riggi

Printed Name: John Riggi

C905400

LAB: SEQ

CHECK ONE (1) BOX ONLY	C/DT	TURN AROUND TIME
G.W. Monitoring [ ]	4461	24 hours [ ]
Site Investigation [X]	4441	48 hours [ ]
Soil Classify/Disposal [ ]	4442	16 days [X] (Normal)
Water Classify/Disposal [ ]	4443	Other [ ]
Soil/Air Rem. or Sys. O & M [ ]	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M [ ]	4453	
Other [ ]		

UST AGENCY: ACHSA

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602) / MTBE*; Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Physical Parameters: 1) Fractional organic carbon 2) Bulk density 3) moisture 4) Porosity; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) MTBE*	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Physical Parameters	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-5-5.5	5.18.99	816	X			2	X		X									HOLD	
MW-5-10.5	↓	824	X			2	X		X				X					* confirm highest MTBE from MW-5	w/ EPA 8260
MW-5-15.5	↓	834	X			2	X		X									↓	
MW-5-20.5	↓	839	X			2	X		X									↓	
MW-5-25.5	↓	846	X			2	X		X									↓	
MW-5-30.5	↓	852	X			2	X		X				X					↓	
MW-5-35.5	↓	900	X			1	X		X									↓	
MW-5-40.5	↓	910	X			1	X		X									↓	

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
[signature]	John A. Riggi	Date: 5/18/99 Time: 1700	[signature]	Vaughn Preece	Date: 5/18/99 Time: 1700
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No:

Date: 5.18.95
Page 2 of 2

Site Address: 1285 Bancroft, San Leandro

WIC#: 98996067

Shell Engineer: Karen Petryna

Phone No.:
Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide

Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: John Riggi

Printed Name: John Riggi

LAB: SEQ

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602) / MTBE; Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Asbestos; Container Size; Preparation Used; Composite Y/N

CHECK ONE (1) BOX ONLY	CT/DT	
G.W. Monitoring	[ ]	4461
Site Investigation	[X]	4441
Soil Classify/Disposal	[ ]	4442
Water Classify/Disposal	[ ]	4443
Soil/Air Rem. or Sys. O & M	[ ]	4452
Water Rem. or Sys. O & M	[ ]	4453
Other	[ ]	

TURN AROUND TIME: 24 hours [ ]; 48 hours [ ]; 16 days [X] (Normal); Other [ ]

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) / MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-5 95.5	5/18/95	916	X			1	X		X								~~HOLD~~	HOLD
COMPOSITE	↓	1100	X			4					X						Test for disposal per attached protocol.	

Relinquished By (signature):	Printed Name:	Date/Time	Received (signature):	Printed Name:	Date/Time
[signature]	John A. Riggi	Date: 5-18-95 Time: 1700	[signature]	John Frick	Date: 5/18/95 Time: 1700
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

ANALYTICAL REPORT FOR L905412

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-7-5.5	L905412-01	Soil	5/17/99
MW-7-10.5	L905412-02	Soil	5/17/99
MW-7-15.5	L905412-03	Soil	5/17/99
MW-7-20.5	L905412-04	Soil	5/17/99
MW-7-25.5	L905412-05	Soil	5/17/99
MW-7-30.5	L905412-06	Soil	5/17/99
MW-7-35.5	L905412-07	Soil	5/17/99
MW-7-40.5	L905412-08	Soil	5/17/99
MW-7-45.5	L905412-09	Soil	5/17/99
MW-6-5.5	L905412-10	Soil	5/17/99
MW-6-10.5	L905412-11	Soil	5/17/99
MW-6-15.5	L905412-12	Soil	5/17/99
MW-6-20.5	L905412-13	Soil	5/17/99
MW-6-25.5	L905412-14	Soil	5/17/99
MW-6-30.5	L905412-15	Soil	5/17/99
MW-6-35.5	L905412-16	Soil	5/17/99
MW-6-40.5	L905412-17	Soil	5/17/99
MW-6-45.5	L905412-18	Soil	5/17/99

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-5.5**
Laboratory Sample Number: **L905412-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050120	5/26/99	5/26/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*82.0*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-10.5**
Laboratory Sample Number: **L905412-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050120	5/26/99	5/26/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*84.0*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-15.5**
Laboratory Sample Number: **L905412-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050120	5/26/99	5/26/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*80.5*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-20.5**
Laboratory Sample Number: **L905412-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050120	5/26/99	5/26/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*82.5*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-25.5**
Laboratory Sample Number: **L905412-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050120	5/26/99	5/26/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*83.0*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-30.5**
Laboratory Sample Number: **L905412-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050120	5/26/99	5/26/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*79.0*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-35.5**
Laboratory Sample Number: **L905412-07**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050120	5/26/99	5/26/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*84.0*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-40.5**
Laboratory Sample Number: **L905412-08**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*85.5*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-7-45.5**
Laboratory Sample Number: **L905412-09**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*90.5*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-5.5**
Laboratory Sample Number: **L905412-10**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*101*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-10.5**
Laboratory Sample Number: **L905412-11**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*92.0*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-15.5**
Laboratory Sample Number: **L905412-12**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*92.0*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-20.5**
Laboratory Sample Number: **L905412-13**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*101*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-25.5**
Laboratory Sample Number: **L905412-14**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*97.5*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-30.5**
Laboratory Sample Number: **L905412-15**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*90.0*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-35.5**
Laboratory Sample Number: **L905412-16**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		25.0	**273**	mg/kg	1
Benzene	"	"	"		0.125	**1.12**	"	
Toluene	"	"	"		0.125	**1.31**	"	
Ethylbenzene	"	"	"		0.125	**3.10**	"	
Xylenes (total)	"	"	"		0.125	**14.2**	"	
Methyl tert-butyl ether	"	"	"		1.25	**2.58**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*9.35*	%	2
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060099	6/17/99	6/18/99		0.500	**1.31**	mg/kg	3
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*70.0-121*		*94.0*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-40.5**
Laboratory Sample Number: **L905412-17**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		10.0	**96.1**	mg/kg	1
Benzene	"	"	"		0.0500	**0.665**	"	
Toluene	"	"	"		0.0500	**1.07**	"	
Ethylbenzene	"	"	"		0.0500	**1.25**	"	
Xylenes (total)	"	"	"		0.0500	**5.51**	"	
Methyl tert-butyl ether	"	"	"		0.500	**1.31**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*15.2*	%	2

Sequoia Analytical

1551 Industrial Road
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(650) 232-9600
FAX (650) 232-9612

Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Sample Description: **MW-6-45.5**
Laboratory Sample Number: **L905412-18**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9050128	5/27/99	5/28/99		1.00	**1.83**	mg/kg	1
Benzene	"	"	"		0.00500	**0.0151**	"	
Toluene	"	"	"		0.00500	**0.0173**	"	
Ethylbenzene	"	"	"		0.00500	**0.0141**	"	
Xylenes (total)	"	"	"		0.00500	**0.0875**	"	
Methyl tert-butyl ether	"	"	"		0.0500	**1.47**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*87.5*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050120	**Date Prepared: 5/26/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9050120-BLK1**									
Purgeable Hydrocarbons as Gasoline	5/26/99			**ND**	mg/kg	**1.00**				
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: a,a,a-Trifluorotoluene	"	*0.200*		*0.197*	"	*70.0-130*	*98.5*			
LCS	**9050120-BS1**									
Benzene	5/26/99	0.200		0.200	mg/kg	70.0-130	100			
Toluene	"	0.200		0.197	"	70.0-130	98.5			
Ethylbenzene	"	0.200		0.206	"	70.0-130	103			
Xylenes (total)	"	0.600		0.591	"	70.0-130	98.5			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.181*	"	*70.0-130*	*90.5*			
Matrix Spike	**9050120-MS1**		**L905298-01**							
Benzene	5/26/99	0.200	ND	0.199	mg/kg	60.0-140	**99.5**			
Toluene	"	0.200	ND	0.205	"	60.0-140	**102**			
Ethylbenzene	"	0.200	ND	0.211	"	60.0-140	**105**			
Xylenes (total)	"	0.600	ND	0.603	"	60.0-140	**100**			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.196*	"	*70.0-130*	*98.0*			
Matrix Spike Dup	**9050120-MSD1**		**L905298-01**							
Benzene	5/26/99	0.200	ND	0.189	mg/kg	60.0-140	**94.5**	25.0	**5.15**	
Toluene	"	0.200	ND	0.190	"	60.0-140	**95.0**	25.0	**7.11**	
Ethylbenzene	"	0.200	ND	0.196	"	60.0-140	**98.0**	25.0	**6.90**	
Xylenes (total)	"	0.600	ND	0.563	"	60.0-140	**93.8**	25.0	**6.40**	
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.159*	"	*70.0-130*	*79.5*			
Batch: 9050128	**Date Prepared: 5/27/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9050128-BLK1**									
Purgeable Hydrocarbons as Gasoline	5/28/99			**ND**	mg/kg	**1.00**				
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: a,a,a-Trifluorotoluene	"	*0.200*		*0.179*	"	*70.0-130*	*89.5*			

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
LCS	**9050128-BS1**									
Purgeable Hydrocarbons as Gasoline	5/28/99	5.00		5.42	mg/kg	70.0-130	108			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.202*	"	*70.0-130*	*101*			
Matrix Spike	**9050128-MS1**		**L905412-08**							
Purgeable Hydrocarbons as Gasoline	5/28/99	5.00	ND	5.94	mg/kg	60.0-140	**119**			
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.227*	"	*70.0-130*	*113*			
Matrix Spike Dup	**9050128-MSD1**		**L905412-08**							
Purgeable Hydrocarbons as Gasoline	5/28/99	5.00	ND	5.59	mg/kg	60.0-140	**112**	25.0	**6.06**	
Surrogate: a,a,a-Trifluorotoluene	"	*0.200*		*0.202*	"	*70.0-130*	*101*			

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060099	**Date Prepared: 6/17/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060099-BLK1**									
Methyl tert-butyl ether	6/17/99			**ND**	mg/kg	**0.100**				
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.66*	"	*70.0-121*	*106*			
LCS	**9060099-BS1**									
Methyl tert-butyl ether	6/17/99	2.50		2.23	mg/kg	70.0-130	89.2			
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.68*	"	*70.0-121*	*107*			
Matrix Spike	**9060099-MS1**		**L906233-01**							
Methyl tert-butyl ether	6/17/99	2.50	ND	2.10	mg/kg	60.0-140	**84.0**			
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.43*	"	*70.0-121*	*97.2*			
Matrix Spike Dup	**9060099-MSD1**		**L906233-01**							
Methyl tert-butyl ether	6/17/99	2.50	ND	2.05	mg/kg	60.0-140	**82.0**	25.0	**2.41**	
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.39*	"	*70.0-121*	*95.6*			

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported: 6/21/99

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
2	The surrogate recovery was below established control limits due to dilution.
3	The 8260A MTBE confirmation was analyzed past the EPA recommended holding time.
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

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Cambria Environmental	Project:	Shell(1)	Sampled:	5/17/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bancroft, San Leandro	Received:	5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataid	Reported:	6/21/99

Sequoia Analytical

885 Jarvis Drive
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FAX (408) 782-6308

June 10, 1999

Tim Costello
Sequoia Analytical - San Carlos
1551 Industrial Road
San Carlos, CA 94070

RE: Cambria (Shell)/M905319

Dear Tim Costello

Enclosed are the results of analyses for sample(s) received by the laboratory on May 24, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea-Ann Torres
Project Manager

CA ELAP Certificate Number 1210

Sequoia Analytical

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Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled: 5/17/99
1551 Industrial Road	Project Number:	L905412 (1285 Bancroft, San Leandro)	Received: 5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/10/99

ANALYTICAL REPORT FOR M905319

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
L905412-02 (MW-7-10.5)	M905319-01	Soil	5/17/99
L905412-06 (MW-7-30.5)	M905319-02	Soil	5/17/99
L905412-11 (MW-6-10.5)	M905319-03	Soil	5/17/99
L905412-15 (MW-6-30.5)	M905319-04	Soil	5/17/99

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Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled: 5/17/99
1551 Industrial Road	Project Number:	L905412 (1285 Bancroft, San Leandro)	Received: 5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/13/99

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
L905412-02 (MW-7-10.5)			**M905319-01**				**Soil**	
Total Solids	9050495	5/24/99	5/24/99	EPA 160.3	1.00	**83.0**	% by Weight	
Fractional Organic Carbon	9050500	5/26/99	5/26/99	EPA 415.1	0.0200	**0.350**	%	
L905412-06 (MW-7-30.5)			**M905319-02**				**Soil**	
Total Solids	9050495	5/24/99	5/24/99	EPA 160.3	1.00	**83.0**	% by Weight	
Fractional Organic Carbon	9050500	5/26/99	5/26/99	EPA 415.1	0.0200	**0.0950**	%	
L905412-11 (MW-6-10.5)			**M905319-03**				**Soil**	
Total Solids	9050495	5/24/99	5/24/99	EPA 160.3	1.00	**85.0**	% by Weight	
Fractional Organic Carbon	9050500	5/26/99	5/26/99	EPA 415.1	0.0200	**0.0840**	%	
L905412-15 (MW-6-30.5)			**M905319-04**				**Soil**	
Total Solids	9050495	5/24/99	5/24/99	EPA 160.3	1.00	**82.0**	% by Weight	
Fractional Organic Carbon	9050500	5/26/99	5/26/99	EPA 415.1	0.0200	**0.150**	%	

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Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled: 5/17/99
1551 Industrial Road	Project Number:	L905412 (1285 Bancroft, San Leandro)	Received: 5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/13/99

Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050495	**Date Prepared: 5/24/99**				**Extraction Method: General Preparation**					
Blank	**9050495-BLK1**									
Total Solids	5/24/99			**ND**	% by Weight	**1.00**				
Duplicate	**9050495-DUP1**		**M905322-02**							
Total Solids	5/24/99		82.0	82.0	% by Weight			20.0	**0**	
Batch: 9050500	**Date Prepared: 5/26/99**				**Extraction Method: General Preparation**					
Blank	**9050500-BLK1**									
Fractional Organic Carbon	5/26/99			**ND**	%	**0.0200**				
Duplicate	**9050500-DUP1**		**M905319-02**							
Fractional Organic Carbon	5/26/99		0.0950	0.0920	%			15.0	**3.21**	

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Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled:	5/17/99
1551 Industrial Road	Project Number:	L905412 (1285 Bancroft, San Leandro)	Received:	5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported:	6/10/99

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

[illegible]LL OIL COMPANY
[illegible]TAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ______

Date: 5.17.99
Page 1 of 3

[illegible]ress: 1205 Grancroft, San Leandro

[illegible]C#: 98996087

Shell Engineer: Karen Petryna

Phone No.:

Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St. Suite C, Oakland, CA 94608

Consultant Contact: Derrick Alaide

Phone No.: 510 420-0700

Fax #: 420-9170

Comments:

Sampled by: [signature]

Printed Name: John A. Riggi

L905418

LAB: SEQ

UST AGENCY: ACHSA

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME	
G.W. Monitoring [ ]	4461	24 hours [ ]	
Site Investigation [X]	4441	48 hours [ ]	
Soil Classify/Disposal [ ]	4442	15 days [X] (Normal)	
Water Classify/Disposal [ ]	4443	Other [ ]	
Soil/Air Rem. or Sys. O & M [ ]	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.	
Water Rem. or Sys. O & M [ ]	4453		
Other [ ]			

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) / MTBE*	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Physical Parameters - 1) Fractional organic carbon 2) porosity 3) moisture 4) Bulk Density	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-7-5.5	5/17/99	900	X			1	X		X									HOLD	
MW-7-10.5		904	X			1	X		X				X					* Confirm highest MTBE from MW-7 with EPA 8260	
MW-7-15.5		908	X			1	X		X										
MW-7-20.5		917	X			1	X		X										
MW-7-25.5		926	X			1	X		X										
MW-7-30.5		950	X			2	X		X				X						
MW-7-35.5		955	X			1	X		X										
MW-7-40.5	✓	1000	X			1	X		X									↓	

Relinquished By (signature):	Printed Name:	Date: / Time:	Received (signature):	Printed Name:	Date: / Time:
[signature]	John A. Riggi	5/17/99 / 1600			

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
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Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-8-15.5**
Laboratory Sample Number: **L905403-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060009	6/1/99	6/1/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*72.5*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-8-20.5**
Laboratory Sample Number: **L905403-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060009	6/1/99	6/1/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*76.5*	*%*	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-8-20.5**
Laboratory Sample Number: **L905403-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060009	6/1/99	6/1/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*75.0*	%	

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-8-30.5**
Laboratory Sample Number: **L905403-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060009	6/1/99	6/1/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*67.0*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-8-35.5**
Laboratory Sample Number: **L905403-07**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060009	6/1/99	6/1/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*69.0*	*%*	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-8-40.5**
Laboratory Sample Number: **L905403-08**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - San Carlos					
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060009	6/1/99	6/1/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	**0.212**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*77.5*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060099	6/17/99	6/17/99		0.100	**0.210**	mg/kg	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*70.0-121*		*96.0*	%	

Sequoia Analytical

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FAX (650) 232-9612

Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Sample Description: **MW-8-45.5**
Laboratory Sample Number: **L905403-09**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060009	6/1/99	6/1/99		1.00	ND	mg/kg	
Benzene	"	"	"		0.00500	ND	"	
Toluene	"	"	"		0.00500	ND	"	
Ethylbenzene	"	"	"		0.00500	ND	"	
Xylenes (total)	"	"	"		0.00500	ND	"	
Methyl tert-butyl ether	"	"	"		0.0500	**0.0532**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*72.5*	*%*	

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060009	**Date Prepared: 6/1/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060009-BLK1**									
Purgeable Hydrocarbons as Gasoline	6/1/99			**ND**	mg/kg	**1.00**				
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: a,a,a-Trifluorotoluene	"	*0.200*		*0.153*	"	*70.0-130*	*76.5*			
LCS	**9060009-BS1**									
Purgeable Hydrocarbons as Gasoline	6/1/99	5.00		4.71	mg/kg	70.0-130	94.2			
Surrogate: a,a,a-Trifluorotoluene	*6/1/99*	*0.200*		*0.196*	"	*70.0-130*	*98.0*			
Matrix Spike	**9060009-MS1**		**L905403-01**							
Purgeable Hydrocarbons as Gasoline	6/1/99	5.00	ND	4.75	mg/kg	60.0-140	**95.0**			
Surrogate: a,a,a-Trifluorotoluene	*6/1/99*	*0.200*		*0.176*	"	*70.0-130*	*88.0*			
Matrix Spike Dup	**9060009-MSD1**		**L905403-01**							
Purgeable Hydrocarbons as Gasoline	6/1/99	5.00	ND	4.97	mg/kg	60.0-140	**99.4**	25.0	**4.53**	
Surrogate: a,a,a-Trifluorotoluene	*6/1/99*	*0.200*		*0.198*	"	*70.0-130*	*99.0*			

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled: 5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received: 5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported: 6/21/99

MTBE by EPA Method 8260A/Quality Control
Sequoia Analytical - San Carlos

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060099	**Date Prepared: 6/17/99**					**Extraction Method: EPA 5030B [P/T]**				
Blank	**9060099-BLK1**									
Methyl tert-butyl ether	6/17/99			**ND**	mg/kg	**0.100**				
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.66*	"	*70.0-121*	*106*			
LCS	**9060099-BS1**									
Methyl tert-butyl ether	6/17/99	2.50		2.23	mg/kg	70.0-130	89.2			
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.68*	"	*70.0-121*	*107*			
Matrix Spike	**9060099-MS1**		**L906233-01**							
Methyl tert-butyl ether	6/17/99	2.50	ND	2.10	mg/kg	60.0-140	**84.0**			
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.43*	"	*70.0-121*	*97.2*			
Matrix Spike Dup	**9060099-MSD1**		**L906233-01**							
Methyl tert-butyl ether	6/17/99	2.50	ND	2.05	mg/kg	60.0-140	**82.0**	25.0	**2.41**	
Surrogate: 1,2-Dichloroethane-d4	"	*2.50*		*2.39*	"	*70.0-121*	*95.6*			

Sequoia Analytical

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Cambria Environmental	Project:	Shell(1)	Sampled:	5/19/99
1144 65th St., Suite C.	Project Number:	Shell 1285 Bankroft, San Leandro	Received:	5/19/99
Oakland, CA 94608	Project Manager:	Darryk Ataide	Reported:	6/21/99

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

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

June 9, 1999

Tim Costello
Sequoia Analytical - San Carlos
1551 Industrial Road
San Carlos, CA 94070

RE: Cambria (Shell)/M905322

Dear Tim Costello

Enclosed are the results of analyses for sample(s) received by the laboratory on May 24, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea-Ann Torres
Project Manager

CA ELAP Certificate Number 1210

Sequoia Analytical

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

Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled: 5/19/99
1551 Industrial Road	Project Number:	L905403 (1285 Bancroft, San Leandro)	Received: 5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/9/99

ANALYTICAL REPORT FOR M905322

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
L905403-02 (MW-8-10.5)	M905322-01	Soil	5/19/99
L905403-06 (MW-8-30.5)	M905322-02	Soil	5/19/99

Sequoia Analytical

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Morgan Hill, CA 95037
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FAX (408) 782-6308

Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled: 5/19/99
1551 Industrial Road	Project Number:	L905403 (1285 Bancroft, San Leandro)	Received: 5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/9/99

Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
L905403-02 (MW-8-10.5)			**M905322-01**				**Soil**	
Total Solids	9050495	5/24/99	5/24/99	EPA 160.3	1.00	**81.0**	% by Weight	
Fractional Organic Carbon	9050500	5/26/99	5/26/99	EPA 415.1	0.0200	**0.360**	%	
L905403-06 (MW-8-30.5)			**M905322-02**				**Soil**	
Total Solids	9050495	5/24/99	5/24/99	EPA 160.3	1.00	**82.0**	% by Weight	
Fractional Organic Carbon	9050500	5/26/99	5/26/99	EPA 415.1	0.0200	**0.110**	%	

Sequoia Analytical

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Morgan Hill, CA 95037
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Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled: 5/19/99
1551 Industrial Road	Project Number:	L905403 (1285 Bancroft, San Leandro)	Received: 5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/9/99

Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050495	**Date Prepared: 5/24/99**				**Extraction Method: General Preparation**					
Blank	**9050495-BLK1**									
Total Solids	5/24/99			**ND**	% by Weight	**1.00**				
Duplicate	**9050495-DUP1**		**M905322-02**							
Total Solids	5/24/99		82.0	82.0	% by Weight			20.0	**0**	
Batch: 9050500	**Date Prepared: 5/26/99**				**Extraction Method: General Preparation**					
Blank	**9050500-BLK1**									
Fractional Organic Carbon	5/26/99			**ND**	%	**0.0200**				
Duplicate	**9050500-DUP1**		**M905319-02**							
Fractional Organic Carbon	5/26/99		0.0950	0.0920	%			15.0	**3.21**	

Sequoia Analytical

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Morgan Hill, CA 95037
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Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled:	5/19/99
1551 Industrial Road	Project Number:	L905403 (1285 Bancroft, San Leandro)	Received:	5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported:	6/9/99

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

CORELAB

PETROLEUM SERVICES

Tim Costello
Sequoia Analytical
1551 Industrial Blvd.
San Carlos, CA 94070

May 27, 1999

Subject : Transmittal of Geotechnical Analysis Data
SA Work order # L905412
Core Lab File No. 57111-99111

Dear Mr Costello:

Soil samples were submitted to our Bakersfield laboratory for geotechnical analysis. Determinations of bulk density and total porosity were requested. Grain and pore volumes were determined by Boyles Law double-cell methods utilizing an extended range helium porosimeter. The bulk densities and total porosity measurements and calculations were performed as described in **API RP-40**, API Recommended Practice for Core-Analysis Procedure, 1960. Accompanying this letter please find the results of this study.

We appreciate this opportunity to be of service to you and to Sequoia Analytical. Should you have any questions, or if we may be of further help in the future, please do not hesitate to contact us.

Very truly yours,

Jeff Smith NW

Jeffry L. Smith
Laboratory Supervisor - Rock Properties

JLS:nw
1 original report, 1 cc report: Addressee

CORELAB

Sequoia Analytical
(San Carlos)
L905412

CL File No.: 57111-99111

Sample No.	Sample Desc.	Sample Date	Total Porosity %	Bulk Density		Matrix Density g/cc	Description
				Dry g/cc	Natural g/cc		
1	L905412-02	17-May-99	31.9	1.80	2.11	2.64	Gray v clayey silt
2	L905412-06	17-May-99	35.7	1.72	2.07	2.67	Gray v clayey silt
3	L905412-11	17-May-99	31.8	1.80	2.12	2.64	Gray v clayey silt
4	L905412-15	17-May-99	36.1	1.70	2.06	2.66	Gray silty clayey vfgr sand w/gravel

Grain and pore volumes were determined by Boyle's Law methods as per API RP-40.
Sample densities and total porosity were calculated as per API RP-40.

CORELAB

PETROLEUM SERVICES

Tim Costello
Sequoia Analytical
1551 Industrial Blvd.
San Carlos, CA 94070

May 27, 1999

Subject : Transmittal of Geotechnical Analysis Data
SA Work order # L905403
Core Lab File No. 57111-99110

Dear Mr Costello:

Soil samples were submitted to our Bakersfield laboratory for geotechnical analysis. Determinations of bulk density and total porosity were requested. Grain and pore volumes were determined by Boyles Law double-cell methods utilizing an extended range helium porosimeter. The bulk densities and total porosity measurements and calculations were performed as described in **API RP-40**, API Recommended Practice for Core-Analysis Procedure, 1960. Accompanying this letter please find the results of this study.

We appreciate this opportunity to be of service to you and to Sequoia Analytical. Should you have any questions, or if we may be of further help in the future, please do not hesitate to contact us.

Very truly yours,

Jeff Smith NW

Jeffry L. Smith
Laboratory Supervisor - Rock Properties

JLS:nw
1 original report, 1 cc report: Addressee

CORELAB

Sequoia Analytical
(San Carlos)
L905403

CL File No.: 57111-99110

Sample No.	Sample Desc.	Sample Date	Total Porosity %	Bulk Density		Matrix Density g/cc	Description
				Dry g/cc	Natural g/cc		
1	L905403-02	19-May-99	33.4	1.75	2.08	2.63	Gray silt
2	L905403-06	19-May-99	34.2	1.72	2.06	2.61	Gray clayey silt

Grain and pore volumes were determined by Boyle's Law methods as per API RP-40.
Sample densities and total porosity were calculated as per API RP-40.

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:

Date: 5.19.99
Page 1 of 2

Site Address: 1285 Bancroft, San Leandro
WIC#: 98996067
Shell Engineer: Karen Petryna
Phone No.:
Fax #:
Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St, Suite C, Oakland, CA 94608
Consultant Contact: Darryk Ataide
Phone No.: 510 420-0700
Fax #: 420-9170
Comments:
Sampled by: [signature]
Printed Name: Jim Riggi
L905403

LAB: SEQ

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602) / MTBE*; Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Physical Parameters (1) Fraction organic carbon 2) Porosity 3) Moisture 4) Bulk density); Asbestos; Container Size; Preparation Used; Composite Y/N

CHECK ONE (1) BOX ONLY	CT/DT		TURN AROUND TIME	
G.W. Monitoring	☐	4461	24 hours	☐
Site Investigation	☒	4441	48 hours	☐
Soil Classify/Disposal	☐	4442	15 days	☒ (Normal)
Water Classify/Disposal	☐	4443	Other	☐
Soil/Air Rem. or Sys. O & M	☐	4452		
Water Rem. or Sys. O & M	☐	4453		
Other	☐			

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) / MTBE*	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	Physical Parameters	Asbestos	Container Size	Preparation Used	Composite Y/N	Material Description	Sample Condition/Comments
MW-8-[illegible]5.5	5.11	800	X			2	X		X									HOLD	
MW-8-10.5	↓	812	X			2	X		X				X					* Confirm highest MTBE in MW-8 w/ EPA 8260	
MW-8-15.5	↓	820	X			2	X		X										
MW-8-20.5	↓	827	X			2	X		X										
MW-8-25.5	↓	836	X			2	X		X										
MW-8-30.5	↓	847	X			2	X		X				X						
MW-8-35.5	↓	854	X			#	X		X										
MW-8-40.5	↓	920	X			1	X		X										

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
[signature]	Jim A. Riggi	5/19/99 5:?	[signature]	JOHN FRICK	5/19/99 1700

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

TOTAL P.09

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: ____

Date: 5.19.99
Page 2 of 2

Site Address: 1285 Bancroft San Leandro

WIC#: 98996067

Shell Engineer: Karen Petryna

Phone No.:
Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide

Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: [signature]

Printed Name: John Riggi

Analysis Required: TPH (EPA 8015 Mod. Gas) / TPH (EPA 8015 Mod. Diesel) / BTEX (EPA 8020/602) / MTBE / Volatile Organics (EPA 8240) / Test for Disposal / Combination TPH 8015 & BTEX 8020 / Asbestos / Container Size / Preparation Used / Composite Y/N

LAB: SEQ

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	[ ] 4461	24 hours [ ]
Site Investigation	[X] 4441	48 hours [ ]
Soil Classify/Disposal	[X] 4442	16 days [X] (Normal)
Water Classify/Disposal	[ ] 4443	Other [ ]
Soil/Air Rem. or Sys. O & M	[ ] 4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Water Rem. or Sys. O & M	[ ] 4453	
Other	[ ]	

UST AGENCY: SEQ

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) / MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	Material Description	Sample Condition/ Comments
[illegible]-5.5	5/19	9/3	X			1	X		X										HOLD	

Relinquished By (signature):	Printed Name:	Date: 5/19/99 Time: [illegible]	Received (signature): [signature]	Printed Name: John Frier	Date: 5/19/99 Time: 1700
[signature]	John Riggi				
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date:

Sequoia Analytical

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

Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled: 5/18/99
1551 Industrial Road	Project Number:	L905400 (1285 Bancroft, San Leandro)	Received: 5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/15/99

Conventional Chemistry Parameters by APHA/EPA Methods/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050495	**Date Prepared: 5/24/99**				**Extraction Method: General Preparation**					
Blank	**9050495-BLK1**									
Total Solids	5/24/99			**ND**	% by Weight	**1.00**				
Duplicate	**9050495-DUP1**		**M905322-02**							
Total Solids	5/24/99		82.0	82.0	% by Weight			20.0	**0**	
Batch: 9050500	**Date Prepared: 5/26/99**				**Extraction Method: General Preparation**					
Blank	**9050500-BLK1**									
Fractional Organic Carbon	5/26/99			**ND**	%	**0.0200**				
Duplicate	**9050500-DUP1**		**M905319-02**							
Fractional Organic Carbon	5/26/99		0.0950	0.0920	%			15.0	**3.21**	

Sequoia Analytical

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Sequoia Analytical - San Carlos	Project:	Cambria (Shell)	Sampled: 5/18/99
1551 Industrial Road	Project Number:	L905400 (1285 Bancroft, San Leandro)	Received: 5/24/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/15/99

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

CORELAB

PETROLEUM SERVICES

Tim Costello
Sequoia Analytical
1551 Industrial Blvd.
San Carlos, CA 94070

May 27, 1999

Subject : Transmittal of Geotechnical Analysis Data
SA Work order # L905400
Core Lab File No. 57111-99109

Dear Mr Costello:

Soil samples were submitted to our Bakersfield laboratory for geotechnical analysis. Determinations of bulk density and total porosity were requested. Grain and pore volumes were determined by Boyles Law double-cell methods utilizing an extended range helium porosimeter. The bulk densities and total porosity measurements and calculations were performed as described in **API RP-40**, API Recommended Practice for Core-Analysis Procedure, 1960. Accompanying this letter please find the results of this study.

We appreciate this opportunity to be of service to you and to Sequoia Analytical. Should you have any questions, or if we may be of further help in the future, please do not hesitate to contact us.

Very truly yours,

Jeff Smith NW

Jeffry L. Smith
Laboratory Supervisor - Rock Properties

JLS:nw
1 original report, 1 cc report: Addressee

CORELAB

Sequoia Analytical
(San Carlos)
L905400

CL File No.: 57111-99109

Sample No.	Sample Desc.	Sample Date	Total Porosity %	Bulk Density		Matrix Density g/cc	Description
				Dry g/cc	Natural g/cc		
1	L905400-02	18-May-99	32.4	1.77	2.10	2.62	Gray clayey silt
2	L905400-06	18-May-99	34.2	1.75	2.09	2.66	Gray clayey silt

Grain and pore volumes were determined by Boyle's Law methods as per API RP-40.
Sample densities and total porosity were calculated as per API RP-40.

Sequoia Analytical

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

June 15, 1999

Tim Costello
Sequoia Analytical - San Carlos
1551 Industrial Road
San Carlos, CA 94070

RE: Cambria (Shell)/M905320

Dear Tim Costello

Enclosed are the results of analyses for sample(s) received by the laboratory on May 24, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lea-Ann Torres
Project Manager

CA ELAP Certificate Number 1210

Sequoia Analytical

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

Sequoia San Carlos	Project:	Subbed in	Sampled: 5/18/99
1551 Industial Blvd.	Project Number:	L905400	Received: 5/19/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/8/99

ANALYTICAL REPORT FOR P905703

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
L905400-14	P905703-01	Soil	5/18/99

Sequoia Analytical

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

Sequoia San Carlos	Project:	Subbed in	Sampled: 5/18/99
1551 Industial Blvd.	Project Number:	L905400	Received: 5/19/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/8/99

Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
L905400-14			**P905703-01**				**Soil**	
Lead	9060050	6/2/99	6/3/99	EPA 6010A	15.0	**42.2**	mg/kg	

Sequoia Analytical

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

Sequoia San Carlos	Project:	Subbed in	Sampled: 5/18/99
1551 Industial Blvd.	Project Number:	L905400	Received: 5/19/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/8/99

Total Metals by EPA 6000/7000 Series Methods/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: 9060050	**Date Prepared: 6/2/99**					**Extraction Method: EPA 3050B**				
Blank	**9060050-BLK1**									
Lead	6/3/99			**ND**	mg/kg	**7.50**				
LCS	**9060050-BS1**									
Lead	6/3/99	50.0		47.9	mg/kg	80.0-120	95.8			
Matrix Spike	**9060050-MS1**		**P905703-01**							
Lead	6/3/99	48.1	42.2	63.3	mg/kg	75.0-125	**43.9**			1
Matrix Spike Dup	**9060050-MSD1**		**P905703-01**							
Lead	6/3/99	43.9	42.2	49.0	mg/kg	75.0-125	**15.5**	20.0	**95.6**	1

Sequoia Analytical

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

Sequoia San Carlos	Project:	Subbed in	Sampled: 5/18/99
1551 Industial Blvd.	Project Number:	L905400	Received: 5/19/99
San Carlos, CA 94070	Project Manager:	Tim Costello	Reported: 6/8/99

Notes and Definitions

#	Note
1	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
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

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792 1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia Analytical-San Carlos	Client Project ID:	L905400, Cambria (Shell)	Sampled:	May 18, 1999
1551 Industrial Road	Sample Descript:	Soil	Received:	May 19, 1999
San Carlos, CA 94070	Analysis Method:	California LUFT Manual, 12/87	Digested :	Jun 1, 1999
Attention: Tim Costello	First Sample #:	905-2365	Analyzed:	Jun 2, 1999
			Reported:	Jun 17, 1999

ORGANIC LEAD

Sample Number	Sample Description	Sample Results mg/kg (ppm)
905-2365	Composite	N.D.

Detection Limits:	2.5

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Charlie Westwater
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Sequoia Analytical-San Carlos
1551 Industrial Road
San Carlos, CA 94070
Attention: Tim Costello

Client Project ID: L905400, Cambria (Shell)
Matrix: Soil
QC Sample Group: 9052365
Reported: Jun 17, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Organic Lead
QC Batch#:	ME060199LUFTMDA
Analy. Method:	LUFT
Prep. Method:	LUFT
Analyst:	T. Le
MS/MSD #:	9052359
Sample Conc.:	N.D.
Prepared Date:	6/1/99
Analyzed Date:	6/2/99
Instrument I.D.#:	MV-1
Conc. Spiked:	20 mg/kg
Result:	2.3 mg/kg
MS % Recovery:	12
Dup. Result:	2.1 mg/kg
MSD % Recov.:	11
RPD:	9.1
RPD Limit:	0-20

LCS #:	LCSD060199
Prepared Date:	6/1/99
Analyzed Date:	6/2/99
Instrument I.D.#:	MV-1
Conc. Spiked:	20 mg/kg
LCS Result:	5.2 mg/kg
LCS % Recov.:	26

MS/MSD	0-62
LCS	10-110
Control Limits	

SEQUOIA ANALYTICAL, #1271

Charlie Westwater
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Sequoia Analytical-San Carlos	Client Project ID:	L905400, Cambria (Shell)	Sampled: May 18, 1999
1551 Industrial Road	Sample Descript:	Soil	Received: May 19, 1999
San Carlos, CA 94070	Analysis Method:	California LUFT Manual, 12/87	Digested : Jun 1, 1999
Attention: Tim Costello	First Sample #:	905-2365	Analyzed: Jun 2, 1999
			Reported: Jun 17, 1999

ORGANIC LEAD

Sample Number	Sample Description	Sample Results mg/kg (ppm)
905-2365	Composite	N.D.

Detection Limits:	2.5

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Charlie Westwater
Project Manager

Sequoia Analytical

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Sequoia Analytical-San Carlos
1551 Industrial Road
San Carlos, CA 94070
Attention: Tim Costello

Client Project ID: L905400, Cambria (Shell)
Matrix: Soil
QC Sample Group: 9052365
Reported: Jun 17, 1999

QUALITY CONTROL DATA REPORT

Analyte:	Organic Lead
QC Batch#:	ME060199LUFTMDA
Analy. Method:	LUFT
Prep. Method:	LUFT
Analyst:	T. Le
MS/MSD #:	9052359
Sample Conc.:	N.D.
Prepared Date:	6/1/99
Analyzed Date:	6/2/99
Instrument I.D.#:	MV-1
Conc. Spiked:	20 mg/kg
Result:	2.3 mg/kg
MS % Recovery:	12
Dup. Result:	2.1 mg/kg
MSD % Recov.:	11
RPD:	9.1
RPD Limit:	0-20

LCS #:	LCSD060199
Prepared Date:	6/1/99
Analyzed Date:	6/2/99
Instrument I.D.#:	MV-1
Conc. Spiked:	20 mg/kg
LCS Result:	5.2 mg/kg
LCS % Recov.:	26

MS/MSD	0-62
LCS	10-110
Control Limits	

SEQUOIA ANALYTICAL, #1271

Charlie Westwater
Project Manager

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No:

Date: 5.18.99
Page 1 of 2

Site Address: 1285 Bancroft San Leandro

WIC#: 98996067

Shell Engineer: Karen Petryna — Phone No.: — Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1144 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide — Phone No.: 510 420-0700 — Fax #: 420-9170

Comments:

Sampled by: John Riggi

Printed Name: John Riggi — C905400

LAB: SEQ

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	☐ 4461	24 hours ☐
Site Investigation	☑ 4441	48 hours ☐
Soil Classify/Disposal	☐ 4442	16 days ☑ (Normal)
Water Classify/Disposal	☐ 4443	Other ☐
Soil/Air Rem. or Sys. O & M	☐ 4452	
Water Rem. or Sys. O & M	☐ 4453	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.
Other	☐	

UST AGENCY: ACHSA

Analysis Required: TPH (EPA 8015 Mod. Gas); TPH (EPA 8015 Mod. Diesel); BTEX (EPA 8020/602) / MTBE*; Volatile Organics (EPA 8240); Test for Disposal; Combination TPH 8015 & BTEX 8020; Physical Parameters: 1) Fractional organic carbon 2) Bulk density 3) Moisture 4) Porosity; Asbestos; Container Size; Preparation Used; Composite Y/N

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH Gas	TPH Diesel	BTEX/MTBE*	Volatile Organics	Test for Disposal	Combination TPH & BTEX	Physical Parameters	Asbestos	Container Size	Preparation Used	Composite Y/N	Material Description	Sample Condition/ Comments
MW-5-5.5	5.18.99	816	X			2	X		X									HOLD	
MW-5-10.5	↓	824	X			2	X		X				X					* Confirm	highest MTBE
MW-5-15.5		834	X			2	X		X									from MW-5	w/ EPA 8260
MW-5-20.5		839	X			2	X		X									↓	
MW-5-25.5		846	X			2	X		X										
MW-5-30.5		852	X			2	X		X				X						
MW-5-35.5		900	X			1	X		X										
MW-5-40.5	↓	910	X			1	X		X										

Relinquished By (signature)	Printed Name	Date/Time	Received (signature)	Printed Name	Date/Time
[signature]	John R. Riggi	Date: 5/18/99 Time: [illegible]	[signature]	Vaughn Preick	Date: 5/18/99 Time: 1700
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No:

Date: 5.18.95
Page 2 of 2

Site Address: 1285 Bancroft, San Leandro

WIC#: 98996067

Shell Engineer: Karen Petryna

Phone No.:
Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1144 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide

Phone No.: 510 420-0700
Fax #: 420-9170

Comments:

Sampled by: John Riggi

Printed Name: John Riggi

LAB: SEQ

CHECK ONE (1) BOX ONLY	CT/DT		TURN AROUND TIME	
G.W. Monitoring	[ ]	4461	24 hours	[ ]
Site Investigation	[X]	4441	48 hours	[ ]
Soil Classify/Disposal	[ ]	4442	15 days	[X] (Normal)
Water Classify/Disposal	[ ]	4443	Other	[ ]
Soil/Air Rem. or Sys. O & M	[ ]	4452		
Water Rem. or Sys. O & M	[ ]	4453		
Other	[ ]			

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602) / MTBE	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-5-95.5	5-18-95	976	X			1	X		X										~~HOLD~~	HOLD
COMPOSITE	↓	1100	X			4					X								Test for disposal per attached protocol.	↓

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
[signature]	John A. Riggi	Date: 5-18-95 Time: 1700	[signature]	John Fric[illegible]	Date: 5/18/95 Time: 1700
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/7/99

ANALYTICAL REPORT FOR L906081

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
Irrigation Well	L906081-01	Water	6/4/99
MW-5	L906081-02	Water	6/4/99
MW-6	L906081-03	Water	6/4/99
MW-7	L906081-04	Water	6/4/99
MW-8	L906081-05	Water	6/4/99

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/7/99

Sample Description: **Irrigation Well**
Laboratory Sample Number: **L906081-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060026	6/4/99	6/4/99		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	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*84.7*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060043	6/7/99	6/7/99		2.00	ND	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*111*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/7/99

Sample Description: MW-5
Laboratory Sample Number: L906081-02

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060036	6/6/99	6/6/99		20000	**80400**	ug/l	1
Benzene	"	"	"		200	**4400**	"	
Toluene	"	"	"		200	**26000**	"	
Ethylbenzene	"	"	"		200	**1480**	"	
Xylenes (total)	"	"	"		200	**11000**	"	
Methyl tert-butyl ether	"	"	"		2000	**3660**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*79.1*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4117
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/7/99

Sample Description: MW-6
Laboratory Sample Number: L906081-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060036	6/6/99	6/6/99		5000	**56900**	ug/l	1
Benzene	"	"	"		50.0	**6830**	"	
Toluene	"	"	"		50.0	**6050**	"	
Ethylbenzene	"	"	"		50.0	**1970**	"	
Xylenes (total)	"	"	"		50.0	**9060**	"	
Methyl tert-butyl ether	"	"	"		500	**17000**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*83.8*	%	
MTBE by EPA Method 8260A								
Methyl tert-butyl ether	9060043	6/7/99	6/7/99		666	**24300**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*109*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/7/99

Sample Description: MW-7
Laboratory Sample Number: L906081-04

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060026	6/4/99	6/4/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	**0.663**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	**0.677**	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		5.00	**11.7**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*86.5*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bancroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/7/99

Sample Description: MW-8
Laboratory Sample Number: L906081-05

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060026	6/4/99	6/4/99		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	"	"	"		5.00	**186**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*90.0*	%	

BLAINE
TECH SERVICES INC.

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

CHAIN OF CUSTODY 990604-63

CLIENT: Equiva - Karen Petryna

SITE: 1285 Bancroft

San Leandro, CA

LAB: SEQUOIA DHS #:

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98996001e1

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.			MATRIX (S = SOIL, W = H2O)	CONTAINERS: TOTAL		C - COMPOSITE ALL CONTAINERS	CONDUCT ANALYSIS TO DETECT: TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010			ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
Irrigation Well	6/4/99	1133	W	3	VOA's		X		X						Confirm highest MTBE hit by 8260 for MW-5 - MW-8			
MW-5		1501					X	X										
MW-6		1425					X	X										
MW-7		1345					X	X										
MW-8	↓	1245	↓	↓	↓		X	X										

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	6/4/99	1510	

RESULTS NEEDED NO LATER THAN: 24 hr TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
	6/4/99				
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
				6/4/99	1400
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #		

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bankcroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/30/99

ANALYTICAL REPORT FOR L906095

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-6NP	L906095-01	Water	6/4/99
MW-7NP	L906095-02	Water	6/4/99
MW-8NP	L906095-03	Water	6/4/99
MW-5NP	L906095-04	Water	6/4/99

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bankcroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/30/99

Sample Description: MW-6NP
Laboratory Sample Number: L906095-01

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060110	6/18/99	6/18/99		20000	**36000**	ug/l	3
Benzene	"	"	"		200	**4240**	"	
Toluene	"	"	"		200	**1680**	"	
Ethylbenzene	"	"	"		200	**1100**	"	
Xylenes (total)	"	"	"		200	**4160**	"	
Methyl tert-butyl ether	"	"	"		2000	**11300**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*89.4*	%	
MTBE by EPA Method 8260A								1
Methyl tert-butyl ether	9060143	6/28/99	6/28/99		500	**17500**	ug/l	
Surrogate: 1,2-Dichloroethane-d4	"	"	"	*76.0-114*		*107*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bankcroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/30/99

Sample Description: **MW-7NP**
Laboratory Sample Number: **L906095-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060103	6/17/99	6/17/99		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	"	"	"		5.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70,0-130*		*85,5*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bankcroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/30/99

Sample Description: **MW-8NP**
Laboratory Sample Number: **L906095-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060103	6/17/99	6/17/99		50	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	9060116	6/21/99	6/21/99		10.0	452	"	1
Surrogate: a,a,a-Trifluorotoluene	9060103	6/17/99	6/17/99	*70.0-130*		*86.7*	%	

Sequoia Analytical

1551 Industrial Road
San Carlos, CA 94070-4111
(650) 232-9600
FAX (650) 232-9612

Blaine Tech Services	Project:	Shell(2)	Sampled: 6/4/99
1680 Rogers Avenue	Project Number:	Shell 1285 Bankcroft, San Leandro	Received: 6/4/99
San Jose, CA 95112	Project Manager:	Ann Pember	Reported: 6/30/99

Sample Description: **MW-5NP**
Laboratory Sample Number: **L906095-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - San Carlos								
Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT								
Purgeable Hydrocarbons as Gasoline	9060110	6/18/99	6/18/99		50000	**159000**	ug/l	3
Benzene	"	"	"		500	**7190**	"	
Toluene	"	"	"		500	**39300**	"	
Ethylbenzene	"	"	"		500	**2450**	"	
Xylenes (total)	"	"	"		500	**16700**	"	
Methyl tert-butyl ether	"	"	"		5000	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*70.0-130*		*89.6*	%	

BLAINE TECH SERVICES INC.

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

CHAIN OF CUSTODY 990604-63

CLIENT: Equiva - Karen Petryna

SITE: 1285 Bancroft

San Leandro, CA

I_610605

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

LAB: SEQUOIA DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

☐ EPA ☐ RWQCB REGION ____
☐ LIA
☐ OTHER

SPECIAL INSTRUCTIONS

Send invoice to Equiva

Incident # 98996067

Send report to Blaine Tech Services

Attn: Ann Pember

SAMPLE I.D.			MATRIX S = SOIL W = H2O	CONTAINERS TOTAL		C	TPH - gas, BTEX	MTBE by 8020	MTBE by 8260	TPH-diesel	Oxygenates by 8260	1,2-DCA & EDB by 8010		ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
MW-6NP	6/4/99	1405	W	3	VOAs		X	X						Confirm high-least MTBE hit by 8260			
MW-7NP		1325					X	X									
MW-8NP		1223					X	X									
MW-5NP		1445					X	X									

SAMPLING COMPLETED: DATE 6/4/99 TIME 1510

SAMPLING PERFORMED BY: [signature]

RESULTS NEEDED NO LATER THAN: Normal TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	6/4/99				
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
			[signature]	6/4/99	1600

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

JUL. -19'99(MON) 10:43 BLAINE TECH SERVICES, INC TEL:408 573 7771 P.007

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**	MW-5
JOB/SITE NAME	snl1285	**DRILLING STARTED**	18-May-99
LOCATION	1285 Bancroft Avenue, San Leandro, California	**DRILLING COMPLETED**	18-May-99
PROJECT NUMBER	241-0504	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	6"/10"	**SCREENED INTERVAL**	25 to 50 ft bgs
LOGGED BY	J. Riggi	**DEPTH TO WATER (First Encountered)**	33.0 ft (18-May-99) ▽
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	33.30ft (18-May-99) ▼

REMARKS Hand augered to 5' bgs; located 9' SW of SW UST slab corner.

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
						Silty Sandy GRAVEL; (FILL); dry; 10% clay, 15% silt, 35% sand, 40% gravel; no plasticity; high estimated permeability.	
						Clayey SILT; (ML); brown; stiff; damp; 30% clay, 60% silt, 10% fine grained sand; low plasticity; low estimated permeability.	2.0
<1.0	10 10 3	100%	MW-5 -5'	5			
<1.0	5 5 13	100%	MW-5 -10'	10	ML	@ 10' - very stiff.	
<1.0	10 18 20	100%	MW-5 -15'	15		@ 15' - hard.	
<1.0	9 11 16	100%	MW-5 -20'	20		@ 15' - very stiff.	
						Sandy Clayey SILT; (ML); brown; stiff; damp; 30% clay, 45% silt, 25% fine grained sand; low plasticity; low estimated permeability.	22.5
<1.0	5 5 8	100%	MW-5 -25'	25	ML		
						Clayey SAND; (SC); brown; medium dense; damp; 30% clay, 10% silt, 60% fine grained sand; low plasticity; low estimated permeability.	27.5
<1.0	4 5 7	100%	MW-5 -30'	30	SC		
				35			

WELL DIAGRAM: Portland Type I/II; 4" diam., Schedule 40 PVC; Bentonite Seal; Monterey Sand #3

WELL LOG (TPH-G) G:\SNL1285\GINT\SNL1285.GPJ DEFAULT.GDT 7/27/99

Continued Next Page

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**	MW-5
JOB/SITE NAME	snl1285	**DRILLING STARTED**	18-May-99
LOCATION	1285 Bancroft Avenue, San Leandro, California	**DRILLING COMPLETED**	18-May-99

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
1.91	15 21 15	100%	MW-5 -35'					@ 35' - dense; wet.		
									37.5	4"-diam., 0.010" Slotted Schedule 40 PVC
10.5	6 8 11	100%	MW-5 -40'		40	GW		**Sandy GRAVEL**; (GW); grey to black; medium dense; wet; 10% silt, 30% sand, 60% fine to coarse grained gravel; no plasticity; high estimated permeability.		
									42.5	
6.67	19 28 45	100%	MW-5 -45'		45	SC		**Silty Gravelly Clayey SAND**; (SC); brown; very dense; wet; 25% clay, 15% silt, 45% fine grained sand, 15% gravel; low plasticity; low estimated permeability.		
					50				50.0	Bottom of Boring @ 50 ft

WELL LOG (TPH-G) G:\SNL1285\GINT\SNL1285.GPJ DEFAULT.GDT 7/27/99

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**	MW-6
JOB/SITE NAME	snl1285	**DRILLING STARTED**	17-May-99
LOCATION	1285 Bancroft Avenue, San Leandro, California	**DRILLING COMPLETED**	17-May-99
PROJECT NUMBER	241-0504	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hollow-stem auger limited access	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	8"	**SCREENED INTERVAL**	25 to 50 ft bgs
LOGGED BY	J. Riggi	**DEPTH TO WATER (First Encountered)**	32.0 ftNA
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
						Silty Clayey Sandy GRAVEL; (FILL); brown; damp; 20% clay, 15% silt, 25% sand, 40% gravel; low plasticity; low estimated permeability.	2.0
						Clayey SAND; (SC); brown; damp; 25% clay, 10% silt, 65% fine grained sand; low plasticity; low estimated permeability.	
<1.0	NA	100%	MW-6 -5'	5			
<1.0	NA	100%	MW-6 -10'	10			
<1.0	NA	100%	MW-6 -15'	15			
<1.0	NA	100%	MW-6 -20'	20	SC		
<1.0	NA	100%	MW-6 -25'	25			
<1.0	NA	100%	MW-6 -30'	30			
				35			

WELL DIAGRAM: Portland Type I/II; 2"-diam., 0.010" Slotted Schedule 40 PVC; Bentonite Seal; Monterey Sand #3

WELL LOG (TPH-G) G:\SNL1285\GINT\SNL1285.GPJ DEFAULT.GDT 7/27/99

Continued Next Page

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**	MW-6
JOB/SITE NAME	snl1285	**DRILLING STARTED**	17-May-99
LOCATION	1285 Bancroft Avenue, San Leandro, California	**DRILLING COMPLETED**	17-May-99

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
273	NA	100%	MW-6 -35'							
									37.5	2"-diam., 0.010" Slotted Schedule 40 PVC
96.1	NA	100%	MW-6 -40'		40	GC		**Clayey Sandy GRAVEL**; (GC); brown; wet; 20% clay, 10% silt, 30% sand, 50% fine to coarse grained gravel; low plasticity; high estimated permeability.		
									42.5	
1.83	NA	100%	MW-6 -45'		45	SC		**Clayey SAND**; (SC); brown; wet; 30% clay, 10% silt, 60% fine grained sand; low plasticity; low estimated permeability.		
					50				50.0	Bottom of Boring @ 50 ft

WELL LOG (TPH-G) G:\SNL1285\GINT\SNL1285.GPJ DEFAULT.GDT 7/27/99

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**	MW-7
JOB/SITE NAME	snl1285	**DRILLING STARTED**	17-May-99
LOCATION	1285 Bancroft Avenue, San Leandro, California	**DRILLING COMPLETED**	17-May-99
PROJECT NUMBER	241-0504	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hollow-stem auger limited access	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	8"	**SCREENED INTERVAL**	25 to 50 ft bgs
LOGGED BY	J. Riggi	**DEPTH TO WATER (First Encountered)**	35.6 ft (17-May-99)
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	32.90ft (17-May-99)

REMARKS Hand augered to 5' bgs; located in driveway behind Shell on property line.

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
				0		**Sandy Clayey GRAVEL**; (FILL); brown; dry; 20% clay, 10% silt, 20% sand, 50% gravel; low plasticity; low estimated permeability.	2.0
					SC	**Clayey SAND**; (SC); brown; damp; 30% clay, 10% silt, 60% fine grained sand; low plasticity; low estimated permeability.	5.0
<1.0	NA	100%	MW-7 -5'	5	ML	**Clayey SILT**; (ML); brown; damp; 30% clay, 60% silt, 10% fine grained sand; low plasticity; low estimated permeability.	7.5
					SC	**Silty Clayey SAND**; (SC); brown; damp; 30% clay, 20% silt, 50% fine grained sand; low plasticity; low estimated permeability.	
<1.0	NA	100%	MW-7 -10'	10			12.5
					ML	**Clayey SILT**; (ML); brown; damp; 30% clay, 50% silt, 20% fine grained sand; low plasticity; low estimated permeability.	
<1.0	NA	100%	MW-7 -15'	15			
<1.0	NA	100%	MW-7 -20'	20			22.5
					SC	**Silty Clayey SAND**; (SC); brown; damp; 35% clay, 25% silt, 40% fine grained sand; low plasticity; low estimated permeability.	
<1.0	NA	100%	MW-7 -25'	25			
<1.0	NA	100%	MW-7 -30'	30			
				35			

WELL DIAGRAM: Portland Type I/II; 2" diam., Schedule 40 PVC; Bentonite Seal; Monterey Sand #3

Continued Next Page

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**	MW-7
JOB/SITE NAME	snl1285	**DRILLING STARTED**	17-May-99
LOCATION	1285 Bancroft Avenue, San Leandro, California	**DRILLING COMPLETED**	17-May-99

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
<1.0	NA	100%	MW-7 -35'							
								▽		
									37.5	
								Clayey SAND; (SC); brown; wet; 30% clay, 10 % silt, 60% fine grained sand; low plasticity; low estimated permeability.		2"-diam., 0.010" Slotted Schedule 40 PVC
<1.0	NA	100%	MW-7 -40'		40					
						SC				
<1.0	NA	100%	MW-7 -45'		45					
					50				50.0	Bottom of Boring @ 50 ft

WELL LOG (TPH-G) G:\SNL1285\GINT\SNL1285.GPJ DEFAULT.GDT 7/27/99

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**	MW-8
JOB/SITE NAME	snl1285	**DRILLING STARTED**	19-May-99
LOCATION	1285 Bancroft Avenue, San Leandro, California	**DRILLING COMPLETED**	19-May-99
PROJECT NUMBER	241-0504	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hollow-stem auger limited access	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	8"	**SCREENED INTERVAL**	25 to 50 ft bgs
LOGGED BY	J. Riggi	**DEPTH TO WATER (First Encountered)**	36.0 ft (19-May-99)
REVIEWED BY	A. Le May, RG	**DEPTH TO WATER (Static)**	NA
REMARKS	Hand augered to 5' bgs.		

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	DEPTH (ft bgs)	U.S.C.S.	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)
				0		**CONCRETE.**	0.3
						Sandy Clayey SILT; (ML); brown; damp; 25% clay, 60% silt, 15% fine grained sand; low plasticity; low estimated permeability.	
<1.0		100%	MW-8 -5'	5			
					ML		
<1.0		100%	MW-8 -10'	10			
<1.0		100%	MW-8 -15'	15			
							17.5
						Silty Clayey SAND; (SC); brown; damp; 25% clay, 20% silt, 55% fine grained sand; low plasticity; low estimated permeability.	
<1.0		100%	MW-8 -20'	20			
<1.0		100%	MW-8 -25'	25	SC		
<1.0		100%	MW-8 -30'	30			
							32.5
						Sandy GRAVEL; (GW); brown to grey; wet; 5% silt, 45% fine to coarse grained sand; 50% fine to coarse grained gravel; no plasticity; high estimated permeability.	
				35			

WELL DIAGRAM: Portland Type I/II; 2" diam., Schedule 40 PVC; Bentonite Seal; Monterey Sand #3

WELL LOG (TPH-G) G:\SNL1285\GINT\SNL1285.GPJ DEFAULT.GDT 7/27/99

Continued Next Page

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**	MW-8
JOB/SITE NAME	snl1285	**DRILLING STARTED**	19-May-99
LOCATION	1285 Bancroft Avenue, San Leandro, California	**DRILLING COMPLETED**	19-May-99

Continued from Previous Page

TPHg (mg/kg)	BLOW COUNTS	RECOVERY	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (ft bgs)	WELL DIAGRAM
<1.0		100%	MW-8 -35'			GW				
									37.5	2"-diam., 0.010" Slotted Schedule 40 PVC
								Clayey SAND; (SC); brown; wet; 25% clay, 10% silt, 65% fine grained sand; low plasticity; low estimated permeability.		
<1.0		100%	MW-8 -40'		40					
						SC				
<1.0		100%	MW-8 -45'		45					
					50				50.0	Bottom of Boring @ 50 ft

Attachment C

Standard Field Procedures for Monitoring Well Installation

CAMBRIA

STANDARD FIELD PROCEDURES FOR MONITORING WELLS

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling ground water monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Registered Geologist (RG).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. 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 at the bottom of the borehole.

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.

Sample Analysis

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 volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer 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. 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.

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.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Ground water monitoring wells are installed to monitor ground water quality and determine the ground water elevation, flow direction and gradient. Well depths and screen lengths are based on ground water depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 ft below and 5 ft 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 ft 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 ft 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 ground water surging and extraction. Surging agitates the ground water and dislodges fine sediments from the sand pack. After about ten minutes of surging, ground water 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 ground water are extracted and the sediment volume in the ground water 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.

Ground Water Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of ground water are purged prior to sampling. Purging continues until ground water pH, conductivity, and temperature have stabilized. Ground water 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.

F:\TEMPLATE\SOPS\WELLS-GW.WPD

Attachment D

Drilling and Encroachment Permit

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
951 TURNER COURT, SUITE 300, HAYWARD, CA 94545-2651
PHONE (510) 670-5575 ANDREAS GODFREY FAX (510) 670-5262
(510) 670-5248 ALVIN KAN

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT 1285 Bancroft Ave
San Leandro CA 94579

California Coordinates Source _____ ft. Accuracy ± ___ ft.
CCN _____ ft. CCE _____ ft.
APN 77-465-8-1

CLIENT
Name EQUIVA ENTERPRISES LLC
Address P.O. Box 6249 Phone 559-645-5643
City Carson CA Zip 90749

APPLICANT
Name John Riggi - CAMBIUM ENVR. Fax 510-420-9170
Address 1144 65th St Ste B Phone 510-420-3340
City OAKLAND CA Zip 94608

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	☐	General	☐
Water Supply	☐	Contamination	☐
Monitoring	☒	Well Destruction	☐

PROPOSED WATER SUPPLY WELL USE

New Domestic	☐	Replacement Domestic	☐
Municipal	☐	Irrigation	☐
Industrial	☐	Other _____	☐

DRILLING METHOD:

Mud Rotary	☐	Air Rotary	☐	Auger	☒
Cable	☐	Other	☐		

DRILLER'S LICENSE NO. Gregg Drilling C57# 485165

WELL PROJECTS
Drill Hole Diameter 8" in. Maximum
Casing Diameter 2" in. Depth 50' ft.
Surface Seal Depth _____ ft. Number 4

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum
Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 5-17-99
ESTIMATED COMPLETION DATE 5-19-99

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

APPLICANT'S SIGNATURE [signature] DATE 4/30/99

FOR OFFICE USE

PERMIT NUMBER 99WR186
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 work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
(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 with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E. CATHODIC
Fill hole above anode zone with concrete placed by tremie.

F. WELL DESTRUCTION
See attached.

G. SPECIAL CONDITIONS

APPROVED [signature] DATE 5-3-99

Service No. _____

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

99186
Permit Number

MAY 11, 1999
Date Approved

Work Site: 1285 Bancroft Ave, San Leandro - CA.

Applicant: Name JOHN RIGGI - CAMPBELL Address 1144 65TH ST, OAKLAND CA 94608 Tel. 510-420-3340

Owner: Name EQUIVA ENTERPRISES LLC Address P.O. BOX 6249, CARSON CA Tel 559-645-5643

Purpose of Permit:

☐ Utility ☐ Street Excavation ☐ Curb, Gutter Sidewalk, Driveway ☒ Other _____

Detailed Description and Dimensions of Work: Installation of Ground water Monitoring well along Estudillo Avenue.

Plan Submitted: Yes X No _____ Profile Submitted Yes _____ No _____

Date Work to be Started: 5/17/99 Date Work to be Completed by: 5/19/99

Building Permit No. _____ State Encroachment Permit No. _____

~~Oro Loma~~ Permit No. ACFWA permit # 99WR186 Alameda County Flood Control Permit No. _____

Compliance with State Labor Code: In accordance with Section 3800

☐ Applicant has on file, with the City of San Leandro, evidence that workman's compensation insurance is carried.

☐ Applicant will not employ anyone so as to become subject to the workman's compensation laws of California.

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

☐ Applicant has State License No. C57 # 495165, Class _____ in full force and effect.

☐ Applicant is exempt from the State Contractor's License Law for the following reason(s):

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

Signature: _____ Date: 5/3/99

PLEASE CALL 577-3308 FOR INSPECTIONS

SPECIAL PROVISIONS

Backfill Required: BACKFILL & RESURFACE TO BE
Pavement Section Required: PERFORMED PER SPECIFICATION
Minimum Depth of Cover: AND DIRECTION BY FIELD ENGINEERING
INSPECTOR.

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

* WORK TO BE PERFORMED BETWEEN 9:00 A.M AND 3:00 P.M. ONLY.

SEE REVERSE SIDE FOR GENERAL PROVISIONS APPLICABLE TO ALL PERMIT WORK

PERMIT IS VALID WHEN SIGNED

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

ISSUE FOR CITY ENGINEER

INSPECTION RECORD

Date	Comments	Insp.	Hrs. Charged

NOTE: 1 hr. Minimum charge per inspection stop

Hours forwarded from reverse side: _____

TOTAL HOURS CHARGED: _____

FEES

PERMIT FEE: 125.00 To ACCT #3306

RESTORE/ INSPECT DEPOSIT: _____ To CN # _____

STREET CUT FEE: _____ TO ACCT #3304

TOTAL: _____

☐ All charges collected at permit insurance

☐ All charges to be billed to CN # _____

REV. Date 3/98

Attachment E

Well Development Field Data Sheets

WELL GAUGING DATA

Project # 990528 TB Date 5/28/99 Client 204-0852-0703

Site 1285 BANCROFT AVE, SAN LEANDRO, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	PRE-PURGE
MW5	4					33.25	49.40	TOC	1.8
MW6	2					31.85	49.32		2.7
MW7	2					32.70	49.71		2.2
MW8	2					31.90	50.05		2.3

WELL DEVELOPMENT DATA SHEET

Project #: 990528-T2	Client: 204-6852-0703
Developer: MT	Date Developed: 5/28
Well I.D. MW 5	Well Diameter: (circle one) 2 3 (4) 6 __
Total Well Depth:	Depth to Water:
Before 49.40 After 49.93	Before 33.25 After 38.01
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
(12 x (d^2/4) x π) /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

10.5	X	10	=	105
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☑
Middleburg ☑ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____ 6 GPM

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	DO	NOTATIONS:	DTW
1436	68.2	6.8	885	>200	11	2.3	Removing Silt	41.00
1438	68.3	6.8	850	>200	22	2.1	" "	41.62
1440	68.4	6.8	824	>200	33	2.0	" "	41.10
1442	67.9	6.9	821	>200	44	1.9	" ", color	41.06
1444	67.5	6.9	821	>200	55	1.9	" " "	41.10
1446	67.5	6.8	810	>200	66	1.9	" " "	41.10
1448	67.5	6.8	802	>200	77	1.9	" " "	41.10
1450	67.5	6.8	783	170.3	88	2.0	" "	41.10
1452	67.4	6.8	780	96.1	99	1.9	Cleared up	41.10
1454	67.4	6.7	777	70.7	110	1.9	" "	41.10
-	Surged/Bumbbed well for 15 min. Prior to Purge/Development							

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 110

WELL DEVELOPMENT DATA SHEET

Project #: 990528-T3	Client: 204-10852-0703
Developer: MT	Date Developed: 5/28
Well I.D. MW6	Well Diameter: (circle one) (2) 3 4 6 ___
Total Well Depth:	Depth to Water:
Before 49.32 After 50.10	Before 31.85 After 32.15
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):
{12 x (d^2/4) x π} /231
where
12 = in / foot
d = diameter (in.)
π = 3.1416
231 = in 3/gal

Well dia.		VCF
2"	=	0.16
3"	=	0.37
4"	=	0.65
6"	=	1.47
10"	=	4.08
12"	=	6.87

2.8	X	10	=	28
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☑ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____ 1 GPM

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	DO	NOTATIONS:	DTW
1249	66.0	6.9	1200	>200	3	2.9	Removing Silt, Odor	32.61
1252	65.6	6.7	1172	>200	6	2.9	" " "	32.606
1255	65.2	6.8	1425	>200	9	2.3	" " "	32.603
1258	64.8	6.7	1068	>200	12	2.1	" " "	32.600
1301	65.1	6.7	1269	>200	15	2.0	" " "	32.603
1304	65.0	6.7	1020	>200	18	2.0	" " "	32.600
1307	64.8	6.7	999	>200	21	2.1	Clearing up, Odor	32.600
1310	64.8	6.7	986	>200	24	2.2	" " "	32.602
1313	64.9	6.7	993	>200	27	2.1	" " "	32.601
1316	64.9	6.7	973	116.2	30	2.1	" " "	32.600
	* Swabbed well for 15 min. Prior to Purge / Development.							

Did Well Dewater? No If yes, note above. Gallons Actually Evacuated: 30

- This well is located in between Apartment building & property fence @ back of station. This is too tight for truck to fit w/ work doors open. Bring 100 ft middleburg reel. MT

WELL DEVELOPMENT DATA SHEET

Project #: 990528-F3	Client: 204-6852-0703
Developer: MT	Date Developed: 5/28
Well I.D. MW7	Well Diameter: (circle one) 2 3 4 6
Total Well Depth:	Depth to Water:
Before 49.71 After 50.27	Before 32.70 After 33.06
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
(12 x (d^2/4) x π) /231	2"	=	0.16
Where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

2.7	X	10	=	27
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☑ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____ 1 GPM

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	DO mg/l	NOTATIONS:	BTW
1157	66.3	6.7	1029	>200	2.75	3.9	Silty	33.00
1200	66.7	6.7	1004	>200	5.5	3.6	Reducing Silt	33.10
1203	65.0	6.8	930	>200	8.25	2.3	" "	33.06
1206	64.9	6.8	927	>200	11.0	2.3	" "	33.01
1209	65.0	6.8	855	>200	13.75	1.9	" "	33.05
1212	65.2	6.8	830	>200	16.5	1.8	" "	33.05
1215	64.9	6.9	862	>200	19.25	1.9	" "	33.05
1218	64.9	6.9	851	>200	22	1.7	" "	33.02
1221	65.0	6.9	856	>200	24.75	1.7	" "	33.04
1224	65.1	6.9	856	>200	27.5	1.6	" "	33.04
- Surged for 15 min Prior to Developing								

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 27.5

- This well is in a small parking area behind the station. Across from the parking stall. Very tight fit through access driveways. MT

WELL DEVELOPMENT DATA SHEET

Project #: 990528 -T3	Client: 204-6852-0703
Developer: MT	Date Developed: 5/28
Well I.D. MW8	Well Diameter: (circle one) (2) 3 4 6 __
Total Well Depth:	Depth to Water:
Before 50.05 After 51.42	Before 31.90 After 32.10
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF):	Well dia.		VCF
[12 x (d^2/4) x π] /231	2"	=	0.16
where	3"	=	0.37
12 = in / foot	4"	=	0.65
d = diameter (in.)	6"	=	1.47
π = 3.1416	10"	=	4.08
231 = in 3/gal	12"	=	6.87

3.0	X	10		30
1 Case Volume		Specified Volumes	=	gallons

Purging Device: Bailer ☐ Electric Submersible ☐
Middleburg ☒ Suction Pump ☐

Type of Installed Pump _____
Other equipment used _____ 1 GPM

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	DO	NOTATIONS:	DTW
1343	104.8	7.0	960	>200	3	2.8	Removing Silt	32.40
1346	105.1	6.9	796	>200	6	2.6	" "	32.43
1349	104.9	6.8	751	>200	9	2.6	" "	32.41
1352	104.7	6.8	739	>200	12	2.5	" " 10th	32.42
1355	105.0	6.8	706	>200	15	2.4	" " "	32.43
1358	105.0	6.8	1089	>200	18	2.3	" " "	32.45
1401	105.1	6.8	1082	>200	21	2.0	" " "	32.40
1404	105.1	6.8	1070	>200	24	2.0	" " "	32.43
1407	105.2	6.8	1077	>200	27	2.0	" " "	32.43
1410	105.0	6.8	1056	>200	30	2.0	" " "	32.42
	- Surged & Swabbed well for 15 min prior to purge / Development.							

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 30

- This well is on the sidewalk in front of a residence. Traffic control consist of 10 cones, 2 road signs, Traffic Strobes & Proper PPE. It Requires shutting down turn lane. MT

Attachment F

Monitoring Well Survey Data

Virgil Chavez Land Surveying
312 Georgia Street, Suite 200
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

June 30, 1999
Project No. 1703-21

Troy Bugle
Cambria Environmental
1144 65th Street, Suite C
Oakland, Ca. 94608

Subject: Monitoring Well Survey
Shell Service Station
1285 Bancroft Avenue
San Leandro, Ca.

Dear Mr. Bugle:

This is to confirm that we have proceeded at your request to survey the monitoring wells located at the above referenced location. The survey was performed on June 21, 1999. The benchmark for the survey was the disk in a monument well at the southeast corner of Estudillo Ave. and Bancroft Ave. Measurement locations were marked at approximate north side of top of box and top of casings. The stations and offsets are referenced to the face of the existing station building looking northerly.
Benchmark Elevation = 65.098 feet, MSL.

Monitoring Well No.	Rim Elevation	TOC Elevation
MW - 5	67.07'	66.50'
MW - 6	65.44'	64.98'
MW - 7	66.14'	65.83'
MW - 8	65.30'	65.07'

Well No.	Station	Offset
MW - 5	0-00.84	20.20(Rt.)
MW - 6	0+00.16	-39.36(Lt.)
MW - 7	0+87.35	-56.03(Lt.)
MW - 8	0-96.61	42.00(Rt.)
SE Bldg Cor.	0+00.00	0.00
NE Bldg Cor.	0+62.69	0.00

LICENSED LAND SURVEYOR
VIRGIL D. CHAVEZ
No. 6323
Exp. 12-31-02
STATE OF CALIFORNIA

Sincerely,

Virgil D. Chavez, PLS 6323

Attachment G

Disposal Confirmation