

C A M B R I A

ENVIRONMENTAL
PROTECTION

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February 29, 2000

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

Re: **Well Installation Report**
Shell-branded Service Station
11989 Dublin Boulevard
Dublin, California
Incident #98995328
SAP Code - 135243
Cambria Project #241-0548



Dear Ms. chu:

On behalf of Equiva Services LLC (Equiva), Cambria Environmental Technology, Inc. (Cambria) is submitting the results of the well installation activities conducted on June 8 and 9, 1999 at the above-referenced site. The objective of this installation was to define the extent of hydrocarbons beneath the site. The investigation was conducted in accordance with our April 16, 1999 *Monitoring Well Installation Work Plan*, which was approved in the April 26, 1999 Alameda County Health Care Services Agency (ACHCSA) letter to Equiva. Presented below are summaries of the site background, investigation procedures, investigation results, and conclusions.

BACKGROUND

Site Location: This operating Shell-branded service station is located at the intersection of Dublin Boulevard and San Ramon Road in Dublin, California (Figure 1). The surrounding area is primarily commercial with retail businesses adjacent to the site. A Chevron service station is located northeast of the Shell-branded site.

Dispenser and Piping Removal and Replacement: In June 1997, soil samples were collected and analyzed during dispenser and piping replacement. Maximum detected concentrations of total purgable petroleum hydrocarbons as gasoline (TPHg) and total extractable petroleum hydrocarbons as diesel (TPHd) were 690 parts per million (ppm) and 12,000 ppm, respectively. The highest detected benzene and methyl tert-butyl ether (MTBE) (by EPA Method 8020)

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

**Cambria
Environmental
Technology, Inc.**

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concentrations during the same sampling event were 0.55 ppm and 8.9 ppm, respectively, both from beneath the center dispenser in the northern pump island.

Underground Storage Tanks: Three gasoline underground storage tanks (USTs) and one diesel UST are in use on-site.

Site Wells: On August 8, 1997, six tank backfill wells were abandoned in accordance with permit #97433 issued by the Alameda County Flood Control and Water Conservation District Zone 7 (Zone 7). One tank backfill well still exists on-site. Water was not encountered at 12 feet below grade (fbg), the maximum tank backfill well depth.

Surface Waters: Dublin Creek is located within 1/4-mile south of the site.

Groundwater Depth and Flow Direction: Historical data from wells adjacent to the site, reviewed prior to this investigation, indicated that groundwater is typically located 20 to 25 fbg. Topography slopes slightly to the east, and groundwater flow direction was estimated to be toward the east to southeast.

INVESTIGATION PROCEDURES

Three monitoring wells were installed on-site to define the extent of hydrocarbons in groundwater. (Figure 2).


The procedures for this well installation, 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 # 99WR207 (Attachment D).

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

Drilling Date: June 8, and 9, 1999.

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- Drilling Method:*** Soil samples were collected using a California Modified Split Spoon sampler using 7-inch hollow stem augers and converted to monitoring wells using 10-inch hollow stem augers.
- Number of Borings:*** Three borings (Figure 2). All borings were converted to groundwater monitoring wells.
- Boring Depths:*** MW-1 was drilled to 20 fbg, and MW-2 and MW-3 were drilled to 33 fbg, respectively (Attachment B).
- Sediment Lithology:*** The site is underlain by a gravelly fill to approximately 2 fbg. The fill is underlain by clayey sands of low estimated permeability to an explored depth of 33 fbg.
- Monitoring Well Specifications:*** Two wells (MW-2 and MW-3) were installed to 33 fbg. The wells were constructed of four-inch diameter PVC with 0.010-inch slotted screen from 13 to 33 fbg. Monitoring well MW-1 was installed to 20 fbg and constructed of four-inch diameter PVC with 0.010-inch slotted screen from 5 to 20 fbg (Attachment C).
- Monitoring Well Development:*** Wells MW-1, MW-2 and MW-3 were developed by Blaine Tech Services of San Jose, California on July 20, 1999.
- Well Elevation Survey:*** The top of casing elevations of wells MW-1, MW-2 and MW-3 were surveyed to mean sea level on June 30, 1999 by Virgil Chavez Land Surveying of Vallejo, California (Attachment F)
- Groundwater Depth:*** The groundwater table was encountered at approximately 23 fbg in wells MW-2 and MW-3. Groundwater was encountered at approximately 8 fbg in well MW-1.
- Chemical Analyses:*** Soil samples from each boring and groundwater samples from the soil boring were analyzed for:
- TPHg and TPHd by modified EPA Method 8015;
 - MTBE, benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8020; and
 - The maximum detection of MTBE in soil was confirmed by EPA Method 8260.

To characterize stockpiled soil for disposal, four brass tubes of soil collected from the stockpiled soil were 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 ppm.



Soil Handling:

Soil cuttings produced from the borings were disposed at Forward Landfill in Manteca, California (Attachment G).

INVESTIGATION RESULTS

Analytical Results for Soil Samples: The maximum concentration of TPHg was detected in sample MW-3 at a depth of 25.5 fbg at 4.1 ppm. The maximum concentrations of TPHd and MTBE (reported by EPA Method 8260) were detected in MW-2 at a depth of 25.5 fbg at 103 ppm and 1.14 ppm, respectively. No hydrocarbons, BTEX or MTBE (by EPA Method 8020) were detected in soil samples collected from monitoring well MW-1 or in vadose zone soil samples collected from MW-2 and MW-3.

Analytical Results for Groundwater: The maximum concentrations of TPHg, TPHd, MTBE (EPA Method 8020), benzene and ethylbenzene were detected in well MW-2 at 2,600 ppb, 0.699 ppb, 9,370 ppb, 55 ppb, and 59.5 ppb, respectively. Groundwater flow direction as determined in Cambria's *Third Quarter 1999 Monitoring Report* is to the southeast at a gradient of 0.125.

CONCLUSIONS AND RECOMMENDATIONS

Static groundwater elevations vary substantially across the site. Static groundwater elevations on July 20, 1999 were 20.31 fbg for monitoring well MW-2 and 24.23 fbg for monitoring well MW-3. The static level for MW-1 was 6.24 fbg.

No apparent explanation for this discrepancy has been identified, but this pattern has continued through the third and fourth quarter 1999 monitoring events. The nearby Calaveras fault may be influencing groundwater elevations. Soil has been impacted only at the capillary fringe, suggesting that surface soils have not been impacted by hydrocarbons. Cambria recommends

continued quarterly monitoring to further assess the impact of hydrocarbons in groundwater. In a January 28, 2000 conversation, ACHCSA requested that a conduit study be performed at the site. Cambria will provide a conduit evaluation in a forthcoming quarterly monitoring report.


CLOSING

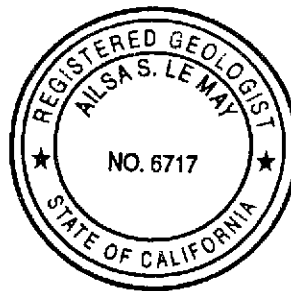
We appreciate your continued assistance with this project. Please call Darryk Ataide, at 510-420-3339 if you have any questions or comments.



Sincerely,
Cambria Environmental Technology, Inc.


Darryk Ataide
Project Manager

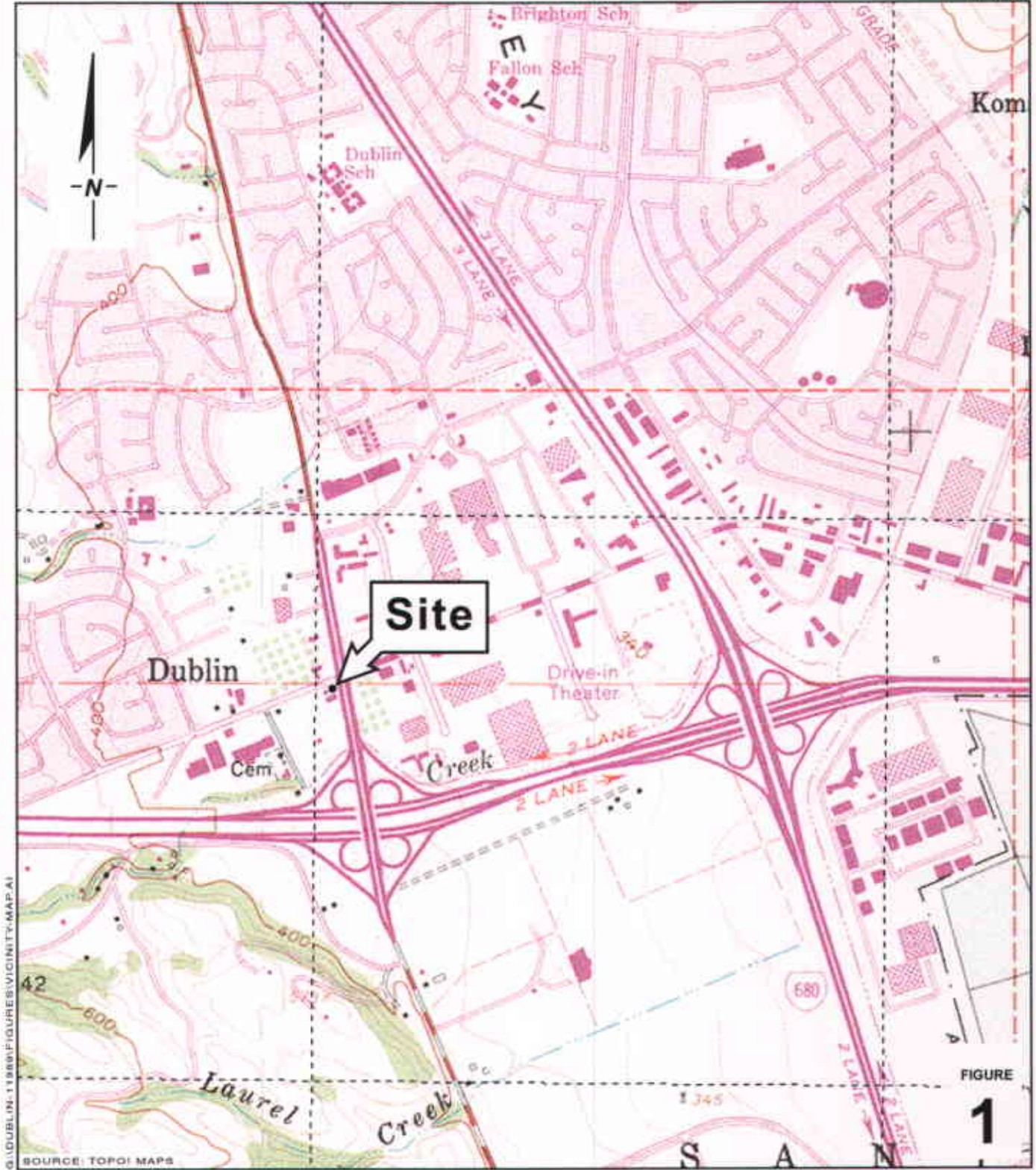

Ailsa S. LeMay, R.G.
Senior Geologist



- Figures: 1 - Site Vicinity Map
 2 - Monitoring Well and Soil Boring 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 Permit
 E - Well Development Field Sheets
 F - Monitoring Well Survey Data
 G - Disposal Confirmation Letter
 H - Department of Water Resources Well Completion Reports

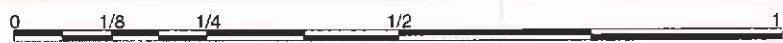
cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, CA 91501-7869

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G:\DUBLIN-11989\FIGURES\VICINITY-MAP.A1

SOURCE: TOPOI MAPS



SCALE : 1" = 1/4 MILE

FIGURE

1

Shell-branded Service Station

11989 Dublin Boulevard
Dublin, California



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Site Vicinity Map

EXPLANATION	
MW-2	Monitoring well location
SB-1	Soil boring locations for November 16, 1997 investigation
SB-1	Soil boring locations for August 5, 1998 investigation

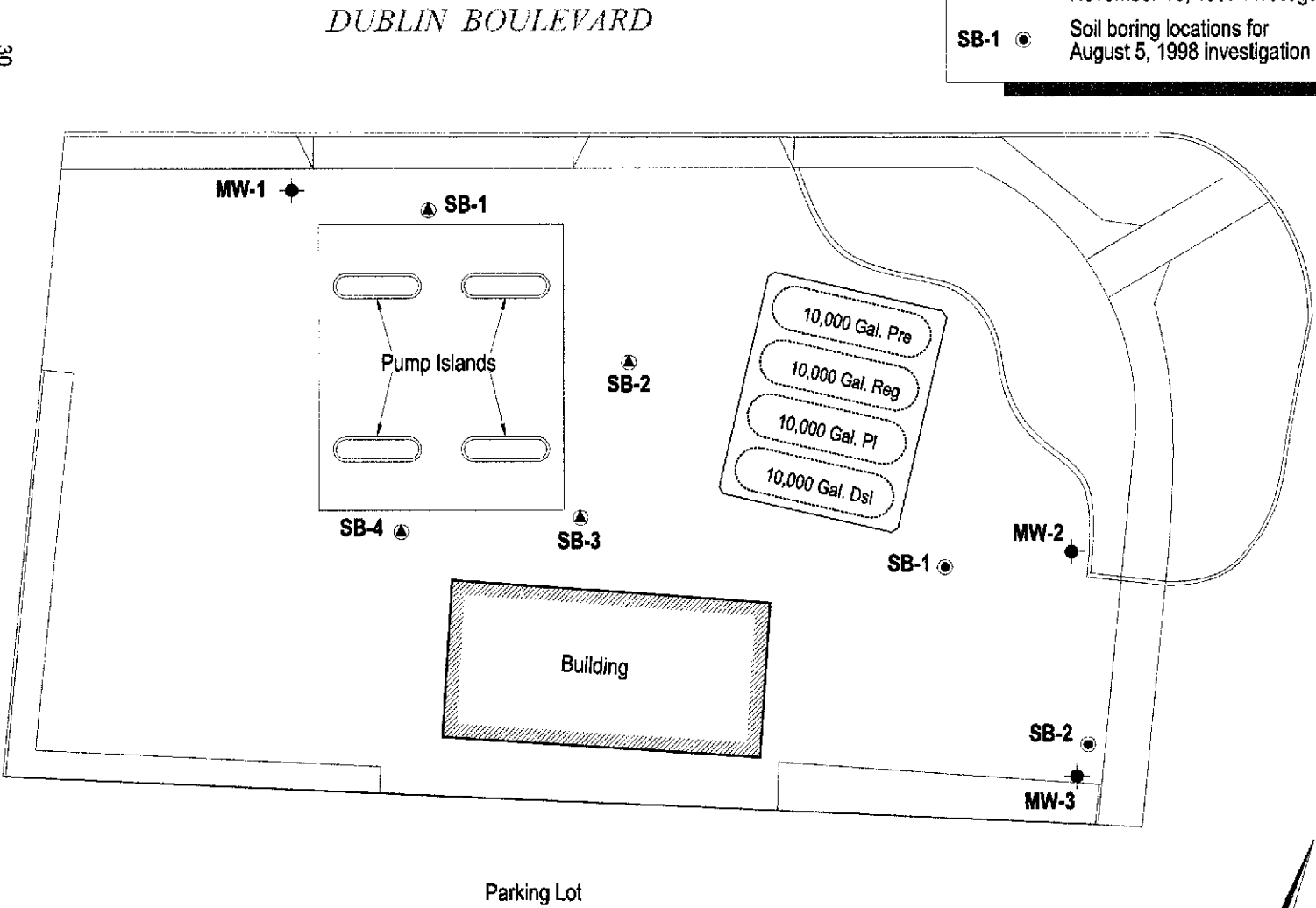
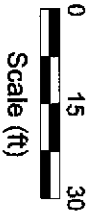


FIGURE 2

Shell-branded Service Station
 11989 Dublin Boulevard
 Dublin, California
 Incident #98995328



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**Monitoring Well and Soil Boring
 Location Map**

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**Table 1. Soil Boring Analytic Data - Shell-branded Service Station - Incident # 98995328,
11989 Dublin Boulevard, Dublin, California**

Sample ID	Depth	TPPH	TEPH	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
		←————— (ppm) —————→						
MW-1 (5.0)	5.0'	<0.40	<5.0	<0.0020	<0.0020	<0.0020	<0.0040	<0.01
MW-1 (10.0)	10.0'	<0.40	<5.0	<0.0020	<0.0020	<0.0020	<0.0040	<0.01
MW-1 (15.0)	15.0'	<0.40	<5.0	<0.0020	<0.0020	<0.0020	<0.0040	<0.01
MW-1 (20.0)	20.0'	<0.40	<5.0	<0.0020	<0.0020	<0.0020	<0.0040	<0.01
MW-2-10.5	10.5'	<0.80	<5.0	<0.020	<0.0040	<0.0040	<0.0040	<0.0080
MW-2-15.5	15.5'	<0.80	<5.0	<0.020	<0.0040	<0.0040	<0.0040	<0.0080
MW-2-20.5	20.5'	<0.80	<5.0	<0.020	<0.0040	<0.0040	<0.0040	<0.0080
MW-2-25.5	25.5'	<0.80	103	1.28 (1.14)	<0.0040	<0.0040	<0.0040	<0.0080
MW-2-30.5	30.5'	<0.80	<5.0	1.76 (0.90)	<0.0040	<0.0040	<0.0040	<0.0080
MW-3-10.5	10.5'	<0.80	<5.0	<0.020	<0.0040	<0.0040	<0.0040	<0.0080
MW-3-15.5	15.5'	<0.80	<5.0	<0.020	<0.0040	<0.0040	<0.0040	<0.0080
MW-3-20.5	20.5'	<0.80	<5.0	<0.020	<0.0040	<0.0040	<0.0040	<0.0080
MW-3-25.5	25.5'	4.1	35.2	0.0597	<0.0040	<0.0040	<0.0040	<0.0080
MW-3-30.5	30.5'	1.39	<5.0	0.063 (0.0622)	<0.0040	<0.0040	<0.0040	<0.0080

Abbreviations and Notes:

TPPH = Total purgeable petroleum hydrocarbons as gasoline by modified EPA Method 8015

TEPH = Total extractable petroleum hydrocarbons as diesel 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

ppm = parts per million

All samples collected on June 8 and 9, 1999

<n = Below detection limit of n ppm

CAMBRIA

Table 2. Groundwater Analytic Data - Shell-branded Service Station - Incident # 98995328, 11989 Dublin Boulevard, Dublin, California

Sample ID	TPPH	TEPH	MTBE	Benzene (ppb)	Toluene	Ethylbenzene	Xylenes
MW-1	<50.0	<0.05	<5.00	<0.50	<0.50	<0.50	<0.50
MW-2	2600	0.699	9370	55	<2.50	59.5	<2.50
MW-3	208	0.177	664	4.69	<0.50	<0.50	<0.50

Abbreviations and Notes:

TPPH = Total purgeable petroleum hydrocarbons as gasoline by modified EPA Method 8015

TEPH = Total extractable petroleum hydrocarbons as diesel 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

ppb = part per billion

Samples collected on July 20, 1999

<n = Below detection limit of n mg/L

Attachment A

Analytical Reports for Soil and Groundwater



Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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ANALYTICAL REPORT FOR P906604

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1-5	P906604-01	Soil	6/9/99
MW-1-10	P906604-02	Soil	6/9/99
MW-1-15	P906604-03	Soil	6/9/99
MW-1-20	P906604-04	Soil	6/9/99
Composite A	P906604-05	Soil	6/9/99
Composite B	P906604-06	Soil	6/9/99
Composite C	P906604-07	Soil	6/9/99
Composite D	P906604-08	Soil	6/9/99
Composite A-D	P906604-09	Soil	6/9/99





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1-5				<u>P906604-01</u>			<u>Soil</u>	
Gasoline	9060703	6/23/99	6/23/99		0.40	ND	mg/Kg	
Benzene	"	"	"		0.0020	ND	"	
Toluene	"	"	"		0.0020	ND	"	
Ethylbenzene	"	"	"		0.0020	ND	"	
Xylenes (total)	"	"	"		0.0040	ND	"	
Methyl tert-butyl ether	"	"	"		0.010	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	65.0-135		103	%	
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"	65.0-135		86.3	"	
MW-1-10				<u>P906604-02</u>			<u>Soil</u>	
Gasoline	9060703	6/23/99	6/23/99		0.40	ND	mg/Kg	
Benzene	"	"	"		0.0020	ND	"	
Toluene	"	"	"		0.0020	ND	"	
Ethylbenzene	"	"	"		0.0020	ND	"	
Xylenes (total)	"	"	"		0.0040	ND	"	
Methyl tert-butyl ether	"	"	"		0.010	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	65.0-135		106	%	
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"	65.0-135		85.0	"	
MW-1-15				<u>P906604-03</u>			<u>Soil</u>	
Gasoline	9060703	6/23/99	6/23/99		0.40	ND	mg/Kg	
Benzene	"	"	"		0.0020	ND	"	
Toluene	"	"	"		0.0020	ND	"	
Ethylbenzene	"	"	"		0.0020	ND	"	
Xylenes (total)	"	"	"		0.0040	ND	"	
Methyl tert-butyl ether	"	"	"		0.010	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	65.0-135		106	%	
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"	65.0-135		83.7	"	
MW-1-20				<u>P906604-04</u>			<u>Soil</u>	
Gasoline	9060703	6/23/99	6/23/99		0.40	ND	mg/Kg	
Benzene	"	"	"		0.0020	ND	"	
Toluene	"	"	"		0.0020	ND	"	
Ethylbenzene	"	"	"		0.0020	ND	"	
Xylenes (total)	"	"	"		0.0040	ND	"	
Methyl tert-butyl ether	"	"	"		0.010	ND	"	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	"	"	"	65.0-135		102	%	
Surrogate: <i>4-Bromofluorobenzene</i>	"	"	"	65.0-135		91.3	"	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Composite A (continued)				<u>P906604-05</u>			<u>Soil</u>	
Gasoline	9060703	6/23/99	6/23/99		0.40	ND	mg/Kg	
Surrogate: 4-Bromofluorobenzene	9060703	6/23/99	6/23/99	65.0-135		86.0	%	
Composite B				<u>P906604-06</u>			<u>Soil</u>	
Gasoline	9060703	6/23/99	6/23/99		0.40	ND	mg/Kg	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		94.3	%	
Composite C				<u>P906604-07</u>			<u>Soil</u>	
Gasoline	9060703	6/23/99	6/23/99		0.40	0.571	mg/Kg	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		89.7	%	
Composite D				<u>P906604-08</u>			<u>Soil</u>	
Gasoline	9060703	6/23/99	6/23/99		0.40	ND	mg/Kg	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		84.3	%	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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**BTEX by 8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
Composite A-D				P906604-09			Soil	
Benzene	9060682	6/23/99	6/23/99		0.0020	ND	mg/Kg	
Toluene	"	"	"		0.0020	ND	"	
Ethylbenzene	"	"	"		0.0020	ND	"	
Xylenes (total)	"	"	"		0.0040	ND	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		96.0	%	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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**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*
<u>Composite A-D</u>				<u>P906604-09</u>				
Lead	9060718	6/24/99	6/25/99	EPA 6010A	7.50	ND	Soil mg/kg	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060703			Date Prepared: 6/23/99			Extraction Method: EPA 5030 soils				
Blank										
9060703-BLK1										
Gasoline	6/23/99			ND	ug/kg	400				
Benzene	"			ND	"	2.00				
Toluene	"			ND	"	2.00				
Ethylbenzene	"			ND	"	2.00				
Xylenes (total)	"			ND	"	4.00				
Methyl tert-butyl ether	"			ND	"	10.0				
Surrogate: a,a,a-Trifluorotoluene	"	300		332	"	65.0-135	111			
Surrogate: 4-Bromofluorobenzene	"	300		283	"	65.0-135	94.3			
LCS										
9060703-BS1										
Gasoline	6/23/99	2000		1760	ug/kg	65.0-135	88.0			
Surrogate: 4-Bromofluorobenzene	"	300		295	"	65.0-135	98.3			
Matrix Spike										
9060703-MS1 P906604-01										
Gasoline	6/23/99	2000	ND	1630	ug/kg	65.0-135	81.5			
Surrogate: 4-Bromofluorobenzene	"	300		261	"	65.0-135	87.0			
Matrix Spike Dup										
9060703-MSD1 P906604-01										
Gasoline	6/23/99	2000	ND	1630	ug/kg	65.0-135	81.5	20.0		0
Surrogate: 4-Bromofluorobenzene	"	300		257	"	65.0-135	85.7			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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**BTEX by 8020M/Quality Control
Sequoia Analytical - Petaluma**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060682		Date Prepared: 6/23/99			Extraction Method: EPA 5030 soils					
Blank		9060682-BLK1								
Benzene	6/23/99			ND	ug/kg	2.00				
Toluene	"			ND	"	2.00				
Ethylbenzene	"			ND	"	2.00				
Xylenes (total)	"			ND	"	4.00				
Surrogate: a,a,a-Trifluorotoluene	"	300		297	"	65.0-135	99.0			
LCS		9060682-BS1								
Benzene	6/23/99	200		193	ug/kg	65.0-135	96.5			
Toluene	"	200		189	"	65.0-135	94.5			
Ethylbenzene	"	200		188	"	65.0-135	94.0			
Xylenes (total)	"	600		564	"	65.0-135	94.0			
Surrogate: a,a,a-Trifluorotoluene	"	300		300	"	65.0-135	100			
Matrix Spike		9060682-MS1	P906599-01							
Benzene	6/23/99	200	ND	198	ug/kg	65.0-135	99.0			
Toluene	"	200	ND	194	"	65.0-135	97.0			
Ethylbenzene	"	200	ND	190	"	65.0-135	95.0			
Xylenes (total)	"	600	ND	565	"	65.0-135	94.2			
Surrogate: a,a,a-Trifluorotoluene	"	300		315	"	65.0-135	105			
Matrix Spike Dup		9060682-MSD1	P906599-01							
Benzene	6/23/99	200	ND	199	ug/kg	65.0-135	99.5	20.0	0.504	
Toluene	"	200	ND	196	"	65.0-135	98.0	20.0	1.03	
Ethylbenzene	"	200	ND	192	"	65.0-135	96.0	20.0	1.05	
Xylenes (total)	"	600	ND	572	"	65.0-135	95.3	20.0	1.16	
Surrogate: a,a,a-Trifluorotoluene	"	300		316	"	65.0-135	105			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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**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: 9060718	Date Prepared: 6/24/99			Extraction Method: EPA 3050B						
Blank	9060718-BLK1									
Lead	6/25/99			ND	mg/kg	7.50				
LCS	9060718-BS1									
Lead	6/25/99	50.0		49.7	mg/kg	80.0-120	99.4			
Matrix Spike	9060718-MS1		P906447-01							
Lead	6/25/99	49.0	ND	52.0	mg/kg	75.0-125	106			
Matrix Spike Dup	9060718-MSD1		P906447-01							
Lead	6/25/99	47.2	ND	48.8	mg/kg	75.0-125	103	20.0	2.87	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd., Dublin Project Manager: Darryk Ataide	Sampled: 6/9/99 Received: 6/9/99 Reported: 6/29/99
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Notes and Definitions

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





SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 20021105

Date: 6.9.99

Page 1 of 1

KY04007

Site Address: 11999 Dublin Boulevard Dublin CA

VICIN: SAP 135243

Shell Engineer: Karen Petryna

Phone No.:

Fax #:

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94608

Consultant Contact:

Darryk Andrade

Phone No. 510

420-0700

Fax #: 420-9170

Comments:

Sampled by: JR

Printed Name: JOHN RYAN

Sample ID	Date	Stage	Soil	Water	Air	No. of conds.
MW-1 (3)	6/1/99	815	X	Problems	04	1
MW-1 (10)		839	X		02	1
MW-1 (15)		937	X		03	1
MW-1 (20)		953	X		04	1
Composite Comp.		1100	0	05	08-09	4

Analysis Required	TPH (EPA 8015 Mod. C)	TPH (EPA 8015 Mod. Diesel)	STX (EPA 8020/8021)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & STX 8020	MTBE 8020	MTBE 8260	Asbestos	Container Size	Preparation Used	Composite Y/N
	X	X				X	X	X				Y

LAB: SEA

CHECK ONE (1) BOX ONLY	CI/DI	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4411	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4411	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Minimum)
Water Classfy/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M <input type="checkbox"/>	4452	
Water Rem. or Sys. O & M <input type="checkbox"/>	4453	
Other <input type="checkbox"/>		

NOTE: Notify lab as soon as possible of 24/48 hrs. TAT.

TEST AGENCY: ACHSA

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	<u>Confirm MTBE</u>
	<u>zero detections w/ 8260;</u>
	<u>per Shell protocol pg 4B-28</u>
<u>DO NOT</u>	<u>RUN 8010</u>
<u>Soil is not going to BFI.</u>	

Requested By (signature): [Signature]
Printed Name: [Name]

Requested By (signature): [Signature]
Printed Name: [Name]

Requested By (signature): [Signature]
Printed Name: Noelle Lane

Date: 6/9/99 (Received signature): [Signature]
Time: 2:30

Date: 6/9/99 (Received signature): [Signature]
Time: 1:30

Date: 6/10/99 (Received signature): [Signature]
Time: 1:30

Printed Name: Fletcher Date: 6/9/99
Time: 1:30

Printed Name: Noelle Lane Date: 6/9/99
Time: 1:30

Printed Name: [Signature] Date: 6/9/99
Time: 1:30

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

ISSUED DATE: 05/23/97
 CANCELS ISSUE: 03/05/97
 ISSUED BY: RLG

**MATERIAL: MINIMUM SOIL ANALYSIS FOR UST SOIL WITH
 GASOLINE OR DIESEL CONTAMINATION**

USE FOR ARIZONA , CALIFORNIA AND NEVADA WASTE ONLY!!!

NOTE: ANALYSES ARE BASED ON CHARACTERIZATION MINIMUM. YOU MUST BE SURE THAT THE FACILITY WILL TAKE THE FOLLOWING AS ACCEPTANCE. FURTHER ANALYSIS MAY BE REQUIRED FOR CHARACTERIZATION UPON REVIEW BY THE WASTE TEAM MEMBER OR TO MEET DISPOSAL SITE REQUIREMENTS. IF THE MATERIAL IS RETURNED TO CONSULTANT, COPIES OF ALL TRANSPORTATION DOCUMENTS MUST BE SENT TO THE WASTE DISPOSAL COORDINATOR FOR RECORDING WHEN PROJECT IS COMPLETE.

MINIMUM REQUIRED TESTING

Note: If material is to be sent to a BFI facility EPA METHOD 8010 must be run IN ADDITION to the following analysis prior to requesting profile approval:

TPH = TOTAL PETROLEUM HYDROCARBONS, DHS GC-FID MOD 8015
 GASOLINE OR DIESEL AS REQUIRED.

BTXE = EPA 8020 + MTBE

CAM METALS = TTLC LEAD, STLC LEAD IF TTLC => 50 MG/KG AND/OR
 ORGANIC LEAD IF TTLC => 13 MG/KG

AQUATIC BIOASSAY (FISH TOX) IS ONLY TO BE RUN ON SAMPLES WITH
 GREATER THAN 5000 PPM TPH. COMPOSITE A MAXIMUM OF 4 SAMPLES.

AQUATIC BIOASSAY (FISH TOX) = PART 800 OF "STANDARD METHODS FOR
 THE EXAMINATION OF WATER AND WASTEWATER (15TH EDITION)"

LABORATORY INSTRUCTIONS (MINIMUM GUIDELINES ONLY)

- 8015/8020 TO BE BILLED AS "COMBO" WITHOUT EXCEPTION
- TPH REQUIRED FOR ALL SAMPLES.
- ALL OTHER TESTS REQUIRED TO BE RUN ON COMPOSITE(S). MAXIMUM 4 SAMPLES PER COMPOSITE.
- STLC REQUIRED FOR METALS WITH TTLC VALUE 10 X STLC MAXIMUM.
- ORGANIC ANALYSIS REQUIRED FOR TTLC LEAD OF 13 MG/KG OR GREATER.
- LABORATORY IS TO SUPPLY QA/QC INFORMATION WITH ALL ANALYTICAL REPORTS.
- MAIL OR FAX ALL ANALYSIS TO PERSON REQUESTING ANALYSIS.

PROCEDURE ORIGINAL DATE: 07/10/90
 PROCEDURE REVISED DATE: 03/05/97



STAR ANALYTICAL

14500 Trinity Boulevard, Suite 106 • Fort Worth, Texas 76155
(817) 571-6800 • Metro (817) 540-6982 • FAX (817) 267-5431



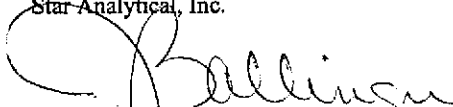
Sequoia Analytical - Petaluma 1455 N McDowell Blvd North Ste D Petaluma, CA 94954	Project: Cambria Environmental-Oakland Shell Oil Co. Project Number: P906604 Project Manager: Scott Forbes	Sampled: 6/9/99 Received: 6/25/99 Reported: 6/28/99 11:07
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ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1-(5)	9060374-01	Solid	6/9/99
MW-1-(10)	9060374-02	Solid	6/9/99
MW-1-(15)	9060374-03	Solid	6/9/99
MW-1-(20)	9060374-04	Solid	6/9/99
Composite A	9060374-05	Solid	6/9/99
Composite B	9060374-06	Solid	6/9/99
Composite C	9060374-07	Solid	6/9/99
Composite D	9060374-08	Solid	6/9/99
P906445-01	9060374-09	Solid	6/9/99

Star Analytical, Inc.

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


Janice Ballinger, Project Manager

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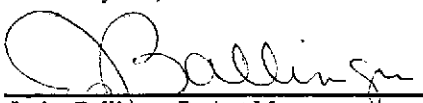
Sequoia Analytical - Petaluma 1455 N McDowell Blvd North Ste D Petaluma, CA 94954	Project: Cambria Environmental-Oakland Shell Oil Co. Project Number: P906604 Project Manager: Scott Forbes	Sampled: 6/9/99 Received: 6/25/99 Reported: 6/28/99 11:07
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Diesel Hydrocarbons (C12-C24) by EPA Method 8015M (modified) Star Analytical, Inc.

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-1-(5)				9060374-01			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/26/99		5.0	ND	mg/kg	
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		97	%	
MW-1-(10)				9060374-02			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/26/99		5.0	ND	mg/kg	
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		100	%	
MW-1-(15)				9060374-03			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/26/99		5.0	ND	mg/kg	
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		110	%	
MW-1-(20)				9060374-04			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/26/99		5.0	ND	mg/kg	
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		94	%	
Composite A				9060374-05			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/27/99		5.0	ND	mg/kg	
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		110	%	
Composite B				9060374-06			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/27/99		5.0	11	mg/kg	1
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		94	%	
Composite C				9060374-07			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/27/99		5.0	12	mg/kg	1
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		110	%	
Composite D				9060374-08			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/27/99		5.0	ND	mg/kg	
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		100	%	
P906445-01				9060374-09			Solid	
Diesel Range Hydrocarbons	06V9539	6/23/99	6/27/99		5.0	ND	mg/kg	
Surrogate: <i>o</i> -Terphenyl	"	"	"	49-170		97	%	

Star Analytical, Inc.

*Refer to end of report for text of notes and definitions.


 Janice Ballinger, Project Manager



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Sequoia Analytical - Petaluma 1455 N McDowell Blvd North Ste D Petaluma, CA 94954	Project: Cambria Environmental-Oakland Shell Oil Co. Project Number: P906604 Project Manager: Scott Forbes	Sampled: 6/9/99 Received: 6/25/99 Reported: 6/28/99 11:07
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Diesel Hydrocarbons (C12-C24) by EPA Method 8015M (modified)/Quality Control Star Analytical, Inc.

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 06V9539	Date Prepared: 6/23/99			Extraction Method: EPA 3550						
Blank	06V9539-BLK1									
Diesel Range Hydrocarbons	6/26/99			ND	mg/kg	5.0				
Surrogate: o-Terphenyl	"	3.3		3.5	"	49-170	110			
LCS	06V9539-BS1									
Diesel Range Hydrocarbons	6/26/99	33		34	mg/kg	60-130	100			
Surrogate: o-Terphenyl	"	3.3		3.3	"	49-170	100			
Matrix Spike	06V9539-MS1		9060374-09							
Diesel Range Hydrocarbons	6/26/99	33	ND	43	mg/kg	60-140	130			
Surrogate: o-Terphenyl	"	3.3		3.9	"	49-170	120			
Matrix Spike Dup	06V9539-MSD1		9060374-09							
Diesel Range Hydrocarbons	6/26/99	33	ND	39	mg/kg	60-140	120	30	8.0	
Surrogate: o-Terphenyl	"	3.3		3.5	"	49-170	110			

Star Analytical, Inc.

*Refer to end of report for text of notes and definitions.


Janice Ballinger, Project Manager



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

Project: Shell Oil Co.
Project Number: 11989 Dublin Blvd - Dublin
Project Manager: Darryk Ataide

Sampled: 6/8/99
Received: 6/9/99
Reported: 7/14/99

ANALYTICAL REPORT FOR P906463

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-2-10.5	P906463-01	Soil	6/8/99
MW-2-15.5	P906463-02	Soil	6/8/99
MW-2-20.5	P906463-03	Soil	6/8/99
MW-2-25.5	P906463-04	Soil	6/8/99
MW-2-30.5	P906463-05	Soil	6/8/99
MW-3-10.5	P906463-06	Soil	6/8/99
MW-3-15.5	P906463-07	Soil	6/8/99
MW-3-20.5	P906463-08	Soil	6/8/99
MW-3-25.5	P906463-09	Soil	6/8/99
MW-3-30.5	P906463-10	Soil	6/8/99





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-2-10.5				<u>P906463-01</u>			<u>Soil</u>	
Gasoline	9060616	6/21/99	6/21/99		0.800	ND	mg/kg	
Benzene	"	"	"		0.00400	ND	"	
Toluene	"	"	"		0.00400	ND	"	
Ethylbenzene	"	"	"		0.00400	ND	"	
Xylenes (total)	"	"	"		0.00800	ND	"	
Methyl tert-butyl ether	"	"	"		0.0200	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		97.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		84.7	"	
MW-2-15.5				<u>P906463-02</u>			<u>Soil</u>	
Gasoline	9060616	6/21/99	6/21/99		0.800	ND	mg/kg	
Benzene	"	"	"		0.00400	ND	"	
Toluene	"	"	"		0.00400	ND	"	
Ethylbenzene	"	"	"		0.00400	ND	"	
Xylenes (total)	"	"	"		0.00800	ND	"	
Methyl tert-butyl ether	"	"	"		0.0200	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		98.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		86.3	"	
MW-2-20.5				<u>P906463-03</u>			<u>Soil</u>	
Gasoline	9060616	6/21/99	6/21/99		0.800	ND	mg/kg	
Benzene	"	"	"		0.00400	ND	"	
Toluene	"	"	"		0.00400	ND	"	
Ethylbenzene	"	"	"		0.00400	ND	"	
Xylenes (total)	"	"	"		0.00800	ND	"	
Methyl tert-butyl ether	"	"	"		0.0200	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		97.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		85.3	"	
MW-2-25.5				<u>P906463-04</u>			<u>Soil</u>	
Gasoline	9060616	6/21/99	6/21/99		4.00	ND	mg/kg	
Benzene	"	"	"		0.0200	ND	"	
Toluene	"	"	"		0.0200	ND	"	
Ethylbenzene	"	"	"		0.0200	ND	"	
Xylenes (total)	"	"	"		0.0400	ND	"	
Methyl tert-butyl ether	"	"	"		0.100	1.28	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		98.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		91.7	"	
MW-2-30.5				<u>P906463-05</u>			<u>Soil</u>	
Gasoline	9060616	6/21/99	6/21/99		4.00	ND	mg/kg	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
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**Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma**

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-2-30.5 (continued)				P906463-05			Soil	
Benzene	9060616	6/21/99	6/21/99		0.0200	ND	mg/kg	
Toluene	"	"	"		0.0200	ND	"	
Ethylbenzene	"	"	"		0.0200	ND	"	
Xylenes (total)	"	"	"		0.0400	ND	"	
Methyl tert-butyl ether	"	"	"		0.100	1.76	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		98.3	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		92.7	"	
MW-3-10.5				P906463-06			Soil	
Gasoline	9060616	6/21/99	6/21/99		0.800	ND	mg/kg	
Benzene	"	"	"		0.00400	ND	"	
Toluene	"	"	"		0.00400	ND	"	
Ethylbenzene	"	"	"		0.00400	ND	"	
Xylenes (total)	"	"	"		0.00800	ND	"	
Methyl tert-butyl ether	"	"	"		0.0200	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		98.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		76.0	"	
MW-3-15.5				P906463-07			Soil	
Gasoline	9060616	6/21/99	6/21/99		0.800	ND	mg/kg	
Benzene	"	"	"		0.00400	ND	"	
Toluene	"	"	"		0.00400	ND	"	
Ethylbenzene	"	"	"		0.00400	ND	"	
Xylenes (total)	"	"	"		0.00800	ND	"	
Methyl tert-butyl ether	"	"	"		0.0200	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		99.0	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		85.3	"	
MW-3-20.5				P906463-08			Soil	
Gasoline	9060616	6/21/99	6/21/99		0.800	ND	mg/kg	
Benzene	"	"	"		0.00400	ND	"	
Toluene	"	"	"		0.00400	ND	"	
Ethylbenzene	"	"	"		0.00400	ND	"	
Xylenes (total)	"	"	"		0.00800	ND	"	
Methyl tert-butyl ether	"	"	"		0.0200	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	65.0-135		98.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		89.3	"	
MW-3-25.5				P906463-09			Soil	
Gasoline	9060616	6/21/99	6/21/99		0.800	4.10	mg/kg	
Benzene	"	"	"		0.00400	ND	"	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
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Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-3-25.5 (continued)				P906463-09			Soil	
Toluene	9060616	6/21/99	6/21/99		0.00400	ND	mg/kg	
Ethylbenzene	"	"	"		0.00400	ND	"	
Xylenes (total)	"	"	"		0.00800	ND	"	
Methyl tert-butyl ether	"	"	"		0.0200	0.0597	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		103	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		94.7	"	
MW-3-30.5				P906463-10			Soil	
Gasoline	9060616	6/21/99	6/21/99		0.800	1.39	mg/kg	
Benzene	"	"	"		0.00400	ND	"	
Toluene	"	"	"		0.00400	ND	"	
Ethylbenzene	"	"	"		0.00400	ND	"	
Xylenes (total)	"	"	"		0.00800	ND	"	
Methyl tert-butyl ether	"	"	"		0.0200	0.0630	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	"	"	"	65.0-135		96.7	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	65.0-135		86.3	"	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
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Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M
Sequoia Analytical - Petaluma

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
MW-2-10.5				P906463-01			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/25/99		5.00	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	50.0-150		77.2	%	
MW-2-15.5				P906463-02			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/25/99		5.00	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	50.0-150		80.2	%	
MW-2-20.5				P906463-03			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/25/99		5.00	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	50.0-150		84.4	%	
MW-2-25.5				P906463-04			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/26/99		5.00	103	mg/kg	1
Surrogate: o-Terphenyl	"	"	"	50.0-150		85.0	%	
MW-2-30.5				P906463-05			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/26/99		5.00	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	50.0-150		78.7	%	
MW-3-10.5				P906463-06			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/26/99		5.00	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	50.0-150		84.4	%	
MW-3-15.5				P906463-07			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/26/99		5.00	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	50.0-150		82.6	%	
MW-3-20.5				P906463-08			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/26/99		5.00	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	50.0-150		70.0	%	
MW-3-25.5				P906463-09			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/26/99		5.00	35.2	mg/kg	1
Surrogate: o-Terphenyl	"	"	"	50.0-150		74.5	%	
MW-3-30.5				P906463-10			Soil	
Diesel (C10-C24)	9060539	6/17/99	6/26/99		5.00	ND	mg/kg	
Surrogate: o-Terphenyl	"	"	"	50.0-150		83.5	%	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
--------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------	----------------------------------------------------------

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

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-2-25.5</u>				<u>P906463-04</u>			<u>Soil</u>	<u>2</u>
Methyl tert-butyl ether	9070035	7/1/99	7/2/99		0.200	1.14	mg/kg	
Surrogate: Dibromofluoromethane	"	"	"	80.0-120		91.5	%	
<u>MW-2-30.5</u>				<u>P906463-05</u>			<u>Soil</u>	<u>2</u>
Methyl tert-butyl ether	9070035	7/1/99	7/2/99		0.200	0.900	mg/kg	
Surrogate: Dibromofluoromethane	"	"	"	80.0-120		93.0	%	
<u>MW-3-25.5</u>				<u>P906463-09</u>			<u>Soil</u>	<u>2.3</u>
Methyl tert-butyl ether	9070035	7/1/99	7/2/99		0.200	ND	mg/kg	
Surrogate: Dibromofluoromethane	"	"	"	80.0-120		93.5	%	
<u>MW-3-30.5</u>				<u>P906463-10</u>			<u>Soil</u>	
Methyl tert-butyl ether	9060814	6/30/99	6/30/99		0.00500	0.0622	mg/kg	
Surrogate: Dibromofluoromethane	"	"	"	80.0-120		115	%	





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
--------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------	----------------------------------------------------------

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

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060616		Date Prepared: 6/21/99			Extraction Method: EPA 5030 soils					
Blank		9060616-BLK1								
Gasoline	6/21/99			ND	mg/kg	0.800				
Benzene	"			ND	"	0.00400				
Toluene	"			ND	"	0.00400				
Ethylbenzene	"			ND	"	0.00400				
Xylenes (total)	"			ND	"	0.00800				
Methyl tert-butyl ether	"			ND	"	0.0200				
Surrogate: a,a,a-Trifluorotoluene	"	0.300		0.296	"	65.0-135	98.7			
Surrogate: 4-Bromofluorobenzene	"	0.300		0.282	"	65.0-135	94.0			
Blank		9060616-BLK2								
Gasoline	6/22/99			ND	mg/kg	0.400				
Benzene	"			ND	"	0.00200				
Toluene	"			ND	"	0.00200				
Ethylbenzene	"			ND	"	0.00200				
Xylenes (total)	"			ND	"	0.00400				
Methyl tert-butyl ether	"			ND	"	0.0100				
Surrogate: a,a,a-Trifluorotoluene	"	0.300		0.272	"	65.0-135	90.7			
Surrogate: 4-Bromofluorobenzene	"	0.300		0.272	"	65.0-135	90.7			
LCS		9060616-BS1								
Gasoline	6/21/99	2.00		2.26	mg/kg	65.0-135	113			
Surrogate: 4-Bromofluorobenzene	"	0.300		0.284	"	65.0-135	94.7			
LCS		9060616-BS2								
Benzene	6/22/99	0.200		0.193	mg/kg	65.0-135	96.5			
Toluene	"	0.200		0.189	"	65.0-135	94.5			
Ethylbenzene	"	0.200		0.187	"	65.0-135	93.5			
Xylenes (total)	"	0.600		0.564	"	65.0-135	94.0			
Surrogate: a,a,a-Trifluorotoluene	"	0.300		0.293	"	65.0-135	97.7			
Matrix Spike		9060616-MS1		P906463-01						
Gasoline	6/21/99	2.00	ND	2.04	mg/kg	65.0-135	102			
Surrogate: 4-Bromofluorobenzene	"	0.300		0.260	"	65.0-135	86.7			
Matrix Spike Dup		9060616-MSD1		P906463-01						
Gasoline	6/21/99	2.00	ND	2.02	mg/kg	65.0-135	101	20.0	0.985	
Surrogate: 4-Bromofluorobenzene	"	0.300		0.259	"	65.0-135	86.3			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
--------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------	----------------------------------------------------------

Total Petroleum Hydrocarbons as Diesel & others by EPA 8015M/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: 9060539			Date Prepared: 6/17/99			Extraction Method: CA LUFT - orb shaker				
Blank			9060539-BLK1							
Diesel (C10-C24)	6/25/99			ND	mg/kg	50.0-150				
Surrogate: o-Terphenyl	"	3.33		2.78	"	50.0-150	83.5			
LCS			9060539-BS1							
Diesel (C10-C24)	6/25/99	33.3		23.6	mg/kg	50.0-150	70.9			
Surrogate: o-Terphenyl	"	3.33		2.62	"	50.0-150	78.7			
Matrix Spike			9060539-MS1 P906389-01							
Diesel (C10-C24)	6/25/99	33.3	106	200	mg/kg	50.0-150	282			4
Surrogate: o-Terphenyl	"	3.33		2.85	"	50.0-150	85.6			
Matrix Spike Dup			9060539-MSD1 P906389-01							
Diesel (C10-C24)	6/25/99	33.3	106	198	mg/kg	50.0-150	276	35.0	2.15	4
Surrogate: o-Terphenyl	"	3.33		2.81	"	50.0-150	84.4			





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
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Volatile Organic Compounds by EPA Method 8260B/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060814		Date Prepared: 6/29/99		Extraction Method: EPA 5035					
Blank		9060814-BLK1							
Methyl tert-butyl ether	6/29/99			ND	mg/kg	0.00500			
Surrogate: Dibromofluoromethane	"	0.0500		0.0548	"	80.0-120	110		
Blank		9060814-BLK2							
Methyl tert-butyl ether	6/30/99			ND	mg/kg	0.00500			
Surrogate: Dibromofluoromethane	"	0.0500		0.0539	"	80.0-120	108		
LCS		9060814-BS1							
Methyl tert-butyl ether	6/29/99	0.0500		0.0556	mg/kg	75.8-124	111		
Surrogate: Dibromofluoromethane	"	0.0500		0.0429	"	80.0-120	85.8		
LCS		9060814-BS2							
Methyl tert-butyl ether	6/30/99	0.0500		0.0565	mg/kg	75.8-124	113		
Surrogate: Dibromofluoromethane	"	0.0500		0.0564	"	80.0-120	113		
Matrix Spike		9060814-MS1 P906648-02							
Methyl tert-butyl ether	6/29/99	0.0500	ND	0.0554	mg/kg	75.8-124	111		
Surrogate: Dibromofluoromethane	"	0.0500		0.0572	"	80.0-120	114		
Matrix Spike Dup		9060814-MSD1 P906648-02							
Methyl tert-butyl ether	6/29/99	0.0500	ND	0.0512	mg/kg	75.8-124	102	35.0	8.45
Surrogate: Dibromofluoromethane	"	0.0500		0.0541	"	80.0-120	108		
Batch: 9070035		Date Prepared: 7/1/99		Extraction Method: EPA 5030 soils MeOH					
Blank		9070035-BLK1							
Methyl tert-butyl ether	7/1/99			ND	mg/kg	0.200			
Surrogate: Dibromofluoromethane	"	2.00		1.97	"	80.0-120	98.5		
LCS		9070035-BS1							
Methyl tert-butyl ether	7/1/99	2.00		2.35	mg/kg	75.8-124	117		
Surrogate: Dibromofluoromethane	"	2.00		1.98	"	80.0-120	99.0		
Matrix Spike		9070035-MS1 P906646-01							
Methyl tert-butyl ether	7/1/99	2.00	0.899	2.87	mg/kg	75.8-124	98.5		
Surrogate: Dibromofluoromethane	"	2.00		1.84	"	80.0-120	92.0		
Matrix Spike Dup		9070035-MSD1 P906646-01							
Methyl tert-butyl ether	7/1/99	2.00	0.899	2.83	mg/kg	75.8-124	96.5	35.0	2.05
Surrogate: Dibromofluoromethane	"	2.00		1.80	"	80.0-120	90.0		





Cambria Environmental - Oakland 1144 65th St., Suite C Oakland, CA 94608	Project: Shell Oil Co. Project Number: 11989 Dublin Blvd - Dublin Project Manager: Darryk Ataide	Sampled: 6/8/99 Received: 6/9/99 Reported: 7/14/99
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Notes and Definitions

#	Note
1	Hydrocarbon pattern in sample appears to be weathered.
2	This sample was analyzed outside the EPA recommended holding time.
3	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
4	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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: 6.8.99

Page 1 of 2

Site Address: 11989 Dublin Blvd, Dublin CA

WIC# SAP CODE: 135 243 Inc # 9899 5328

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

Consultant Name & Address: CAMBRIA ENVIRONMENTAL 1111 65th St, Suite C, Oakland, CA 94608

Consultant Contact: Darryk Ataide Phone No.: 420-8700 Fax #: 420-9170

Comments: _____

Sampled by: J. Riggi

Printed Name: John Riggi

Analysis Required

TPH (EPA 8015 Mod. C-5)	TPH (EPA 8015 Mod. Diesel)	STEX (EPA 8020/502)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & STEX 8020	MTBE 8020	MTBE 8260	Asbestos	Container Size	Preparation Used	Composite Y/N
X	X	X	X	X	X	X	X	X	X	X	X

LAB: SEQ

CHECK ONE (1) BOX ONLY	C/D/I	TURN AROUND TIME
G.W. Monitoring	<input type="checkbox"/> 4441	24 hours <input type="checkbox"/>
Site Investigation	<input checked="" type="checkbox"/> 4441	48 hours <input type="checkbox"/>
Soil Classfy/Disposal	<input type="checkbox"/> 4442	16 days <input checked="" type="checkbox"/> (Standard)
Water Classfy/Disposal	<input type="checkbox"/> 4443	Other <input type="checkbox"/>
Soil/Air Rem. or Sys. O & M	<input type="checkbox"/> 4452	NOTE: (Soil) Lab on turn on Facility of 24/24 hrs. 1AL
Water Rem. or Sys. O & M	<input type="checkbox"/> 4453	
Other	<input type="checkbox"/>	

TEST AGENCY: ACP&A

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.
MW-2-10.5	6/8/99	811	X			1
MW-2-15.5		817	X			1
MW-2-20.5		828	X			1
MW-2-25.5		844	X			1
MW-2-30.5		854	X			1
MW-3-10.5'		1212	X			1
MW-3-15.5'		1220	X			1
		922	X			1

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	Contin
	MTBE 9020
	detections;
	w/ 920

COOLER CUSTODY SEALS INTACT NOT INTACT
COOLER TEMPERATURE 6 °C

Requested by (signature): [Signature]
Printed Name: John A Riggi
Date: 6.8.99
Time: 6:00

Received (signature): [Signature]
Printed Name: [Name]
Date: 6/8/99
Time: [Time]

Requested by (signature): [Signature]
Printed Name: Noelle Lane
Date: 6/10/99
Time: [Time]

Received (signature): [Signature]
Printed Name: [Name]
Date: 6/9/99
Time: 7:00

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: 6.8.97

Page 2 of 2

Site Address: 11989 Dublin Blvd, Dublin CA

Work: SAP CODE: 135243 FACT# 78995328

Shell Engineer: Karen Petrym Phone No.: _____ Fax #: _____

Consultant Name & Address: CAMBRIA ENVIRONMENTAL
1114 65th St. Suite C, Oakland, CA 94609

Consultant Contact: Darryk Ataide Phone No.: 510 420-8700
Fax #: 420-9770

Comments: _____

Sampled by: J.R.

Printed Name: JOHN W RIGGI

Sample ID	Date	Sludge	Soil	Water	Air	No. of conds.
<u>MW-3-20.S</u>	<u>6/3/97</u>	<u>1228</u>	<u>X</u>			<u>1</u>
<u>MW-3-25.S</u>	<u>↓</u>	<u>1239</u>	<u>X</u>			<u>1</u>
<u>MW-3-30.S</u>	<u>↓</u>	<u>117</u>	<u>X</u>			<u>1</u>

Analysis Required

TPH (EPA 8015 Mod. Gen)	TPH (EPA 8015 Mod. Diesel)	TEX (EPA 8021/8022)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & STEK 8020	MTBE 8020	MTBE 8260	Asbestos	Container Size	Preparation Used	Composite Y/N

LAB: SEA

CHECK ONE (1) BOX ONLY	C1/D1	TURN AROUND TIME
G.W. Monitoring <input type="checkbox"/>	4441	24 hours <input type="checkbox"/>
Site Investigation <input checked="" type="checkbox"/>	4441	48 hours <input type="checkbox"/>
Soil Classfy/Disposal <input type="checkbox"/>	4442	15 days <input checked="" type="checkbox"/> (Planned)
Water Classfy/Disposal <input type="checkbox"/>	4443	Other <input type="checkbox"/>
Soil/Air Rem. of Sys. O & M <input type="checkbox"/>	4442	
Water Rem. of Sys. O & M <input type="checkbox"/>	4443	
Other <input type="checkbox"/>		

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

TEST AGENCY: ACHSA

MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
	<u>Confirm</u>
	<u>MTBE 8020</u>
	<u>detecting</u>
	<u>w/ 8260</u>

Relinquished By (signature): [Signature] Printed Name: John A Riggi
 Relinquished By (signature): [Signature] Printed Name: _____
 Relinquished By (signature): [Signature] Printed Name: Noelle Lane

Date: 6.8.97 Time: 6:00 Received (signature): [Signature]
 Date: 6/9/97 Time: _____ Received (signature): [Signature]
 Date: 6/10/97 Time: _____ Received (signature): [Signature]

Printed Name: Fulcher Date: 6/14/97
 Printed Name: Noelle Lane Time: 3:30
 Printed Name: HENRY ALONSO Date: 6/9/97
 Time: 1:00
 Date: 6/10/97
 Time: 11:00

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



Sequoia Analytical

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

August 11, 1999

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

RE: Equiva 11989 Dublin Blvd./M907992

Dear Ann Pember

Enclosed are the results of analyses for sample(s) received by the laboratory on July 21, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kayvan Kimyai', is written over a faint, illegible typed name.

Kayvan Kimyai
Project Manager D.M.

CA ELAP Certificate Number 1210



**Sequoia
Analytical**

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

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

Project: Equiva
Project Number: 11989 Dublin Blvd.
Project Manager: Ann Pember

Sampled: 7/20/99
Received: 7/21/99
Reported: 8/11/99

ANALYTICAL REPORT FOR M907992

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M907992-01	Water	7/20/99
MW-2	M907992-02	Water	7/20/99
MW-3	M907992-03	Water	7/20/99





Sequoia Analytical

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

Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva	Sampled: 7/20/99
	Project Number: 11989 Dublin Blvd.	Received: 7/21/99
	Project Manager: Ann Pember	Reported: 8/11/99

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

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>MW-1</u> Diesel Range Hydrocarbons Surrogate: n-Pentacosane	9080047	8/3/99	8/5/99	<u>M907992-01</u> 50.0-150	0.0500	ND 92.1	<u>Water</u> mg/l %	
<u>MW-2</u> Diesel Range Hydrocarbons Surrogate: n-Pentacosane	9080047	8/3/99	8/5/99	<u>M907992-02</u> 50.0-150	0.0500	0.699 88.4	<u>Water</u> mg/l %	1
<u>MW-3</u> Diesel Range Hydrocarbons Surrogate: n-Pentacosane	9080047	8/3/99	8/5/99	<u>M907992-03</u> 50.0-150	0.0500	0.177 99.3	<u>Water</u> mg/l %	1



**Sequoia
Analytical**

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

Blaine Tech Services (Shell) 1680 Rogers Avenue San Jose, CA 95112	Project: Equiva Project Number: 11989 Dublin Blvd. Project Manager: Ann Pember	Sampled: 7/20/99 Received: 7/21/99 Reported: 8/11/99
--------------------------------------------------------------------------	--------------------------------------------------------------------------------------	------------------------------------------------------------

**Diesel Hydrocarbons (C9-C24) by DHS LUFT/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: 9080047	Date Prepared: 8/3/99					Extraction Method: EPA 3510B				
Blank	9080047-BLK1									
Diesel Range Hydrocarbons	8/4/99			ND	mg/l	0.0500				
Surragate: n-Pentacosane	"	0.100		0.108	"	50.0-150	108			
LCS	9080047-RS1									
Diesel Range Hydrocarbons	8/4/99	1.00		0.779	mg/l	60.0-140	77.9			
Surragate: n-Pentacosane	"	0.100		0.0929	"	50.0-150	92.9			
LCS Dup	9080047-BSD1									
Diesel Range Hydrocarbons	8/4/99	1.00		0.760	mg/l	60.0-140	76.0	50.0	2.47	
Surragate: n-Pentacosane	"	0.100		0.0903	"	50.0-150	90.3			





Sequoia Analytical

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

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

Project: Equiva
Project Number: 11989 Dublin Blvd.
Project Manager: Ann Pember

Sampled: 7/20/99
Received: 7/21/99
Reported: 8/11/99

Notes and Definitions

#	Note
---	------

1	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
---	--------------------------------------------------------

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

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

August 4, 1999

Kayvan Kimyal
Sequoia - Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037

RE: 1/L907265

Dear Kayvan Kimyai:

Enclosed are the results of analyses for sample(s) received by the laboratory on July 28, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read 'Wayne Stevenson', with a stylized flourish at the end.

for Wayne Stevenson
Project Manager

CA ELAP Certificate Number I-2360



**Sequoia
Analytical**

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

Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: M907992 Project Manager: Kayvan Kimyai	Sampled: 7/20/99 Received: 7/28/99 Reported: 8/4/99
--------------------------------------------------------------------	-------------------------------------------------------------------------	-----------------------------------------------------------

ANALYTICAL REPORT FOR L907265

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
M907992-01/MW-1	L907265-01	Water	7/20/99
M907992-02/MW-2	L907265-02	Water	7/20/99
M907992-03/MW-3	L907265-03	Water	7/20/99



Sequoia Analytical

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

Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: M907992 Project Manager: Kayvan Kimyai	Sampled: 7/20/99 Received: 7/28/99 Reported: 8/4/99
--------------------------------------------------------------------	-------------------------------------------------------------------------	-----------------------------------------------------------

Sample Description: M907992-01/MW-1
Laboratory Sample Number: L907265-01

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 LDET								
Purgeable Hydrocarbons as Gasoline	9080002	8/2/99	8/3/99		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: <i>a,a,a</i> -Trifluorotoluene	"	"	"	70.0-130		98.8	%	



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Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: M907992 Project Manager: Kayvan Kimyai	Sampled: 7/20/99 Received: 7/28/99 Reported: 8/4/99
--------------------------------------------------------------------	-------------------------------------------------------------------------	-----------------------------------------------------------

Sample Description: M907992-02/MW-2
 Laboratory Sample Number: L907265-02

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	9080002	8/2/99	8/3/99		250	2600	ug/l	1
Benzene	"	"	"		2.50	55.0	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	59.5	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	9080010	8/3/99	"		500	9370	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9080002	8/2/99	"	70.0-130		145	%	2



Sequoia Analytical

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San Carlos, CA 94070-4111
(650) 232-9600
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Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: M907992 Project Manager: Kayvan Kimyai	Sampled: 7/20/99 Received: 7/28/99 Reported: 8/4/99
--------------------------------------------------------------------	-------------------------------------------------------------------------	-----------------------------------------------------------

Sample Description: M907992-03/MW-3
Laboratory Sample Number: L907265-03

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
<u>Sequoia Analytical - San Carlos</u>								
<u>Total Purgeable Hydrocarbons (C6-C12), BTEX and MTBE by DHS LUFT</u>								
Purgeable Hydrocarbons as Gasoline	9080002	8/2/99	8/3/99		50.0	208	ug/l	3
Benzene	"	"	"		0.500	4.69	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	9080010	8/3/99	"		50.0	664	"	
Surrogate: a,a,a-Trifluorotoluene	9080002	8/2/99	"	70.0-130		107	%	



Sequoia Analytical

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San Carlos, CA 94070-4111
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Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: M907992 Project Manager: Kayvan Kimyai	Sampled: 7/20/99 Received: 7/28/99 Reported: 8/4/99
--------------------------------------------------------------------	-------------------------------------------------------------------------	-----------------------------------------------------------

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: 9080002			Date Prepared: 8/2/99			Extraction Method: EPA 5030B IP/TI				
Blank			9080002-BLK1							
Purgeable Hydrocarbons as Gasoline	8/2/99			ND	ug/l	50.0				
Benzene	"			ND	"	0.500				
Toluene	"			ND	"	0.500				
Ethylbenzene	"			ND	"	0.500				
Xylenes (total)	"			ND	"	0.500				
Methyl tert-butyl ether	"			ND	"	5.00				
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.2	"	70.0-130	102			
LCS			9080002-BS1							
Benzene	8/2/99	10.0		9.08	ug/l	70.0-130	90.8			
Toluene	"	10.0		8.64	"	70.0-130	86.4			
Ethylbenzene	"	10.0		8.44	"	70.0-130	84.4			
Xylenes (total)	"	30.0		27.4	"	70.0-130	91.3			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		10.5	"	70.0-130	105			
Matrix Spike			9080002-MS1		L907219-01					
Benzene	8/2/99	10.0	ND	8.69	ug/l	60.0-140	86.9			
Toluene	"	10.0	ND	8.36	"	60.0-140	83.6			
Ethylbenzene	"	10.0	ND	7.54	"	60.0-140	75.4			
Xylenes (total)	"	30.0	ND	26.9	"	60.0-140	89.7			
Surrogate: a,a,a-Trifluorotoluene	"	10.0		9.86	"	70.0-130	98.6			
Matrix Spike Dup			9080002-MSD1		L907219-01					
Benzene	8/2/99	10.0	ND	8.56	ug/l	60.0-140	85.6	25.0	1.51	
Toluene	"	10.0	ND	8.29	"	60.0-140	82.9	25.0	0.841	
Ethylbenzene	"	10.0	ND	7.73	"	60.0-140	77.3	25.0	2.49	
Xylenes (total)	"	30.0	ND	26.2	"	60.0-140	87.3	25.0	2.71	
Surrogate: a,a,a-Trifluorotoluene	"	10.0		8.92	"	70.0-130	89.2			





**Sequoia
Analytical**

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

Sequoia - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037	Project: 1 Project Number: M907992 Project Manager: Kayvan Kimyai	Sampled: 7/20/99 Received: 7/28/99 Reported: 8/4/99
--------------------------------------------------------------------	-------------------------------------------------------------------------	-----------------------------------------------------------

Notes and Definitions

#	Note
1	Chromatogram Pattern: Gasoline C6-C12
2	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
3	Chromatogram Pattern: Unidentified Hydrocarbons 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

P. 014

TEL: 408 573 7771

BLAINE TECH SERVICES, INC

AUG. -13' 99 (FR) 08:38

BLAINE

TECH SERVICES, INC.

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

CONDUCT ANALYSIS TO DETECT

LAB Sequoia DHS # _____
ALL ANALYSIS MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA OHS AND
 EPA RWQCB REGION _____
 LIA
 OTHER

CHAIN OF 990720 R2
CLIENT Equiva - Karen Petryna
SITE 11989 Dublin Blvd.
Dublin, CA

C = COMPOSITE ALL CONTAINERS

SAMPLE I.D.	DATE	TIME	MATRD		CONTAINERS	TPH - gas, BTEX -	MTBE by 8020	MTBE by 8260	TPH - diesel	Oxygenates by 8260	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
			% SOIL	W=H ₂ O										
<u>MW-1</u>	<u>7/20</u>	<u>13:11</u>	<u>W</u>	<u>S</u>	<u>Variable</u>	<u>X</u>	<u>X</u>		<u>X</u>					
<u>MW-2</u>		<u>15:09</u>		<u>S</u>	<u>UP Amber</u>	<u>X</u>	<u>X</u>		<u>X</u>					
<u>MW-3</u>		<u>14:16</u>		<u>S</u>	<u>1</u>	<u>X</u>	<u>X</u>		<u>X</u>					

SPECIAL INSTRUCTIONS
1907992
Send invoice to Equiva
Incident # 98995328
Sent report to Blaine Tech Services, Inc.
ATTN: Ann Pember

SAMPLING COMPLETED 7/20 15:40 SAMPLING PERFORMED BY JR RESULTS NEEDED NO LATER THAN

RELEASED BY <u>[Signature]</u>	DATE <u>7-21-99</u>	TIME <u>8:23</u>	RECEIVED BY <u>[Signature]</u>	DATE <u>7/21/99</u>	TIME <u>823</u>
RELEASED BY <u>[Signature]</u>	DATE <u>7/21/99</u>	TIME	RECEIVED BY	DATE	TIME
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME

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

213

Attachment B

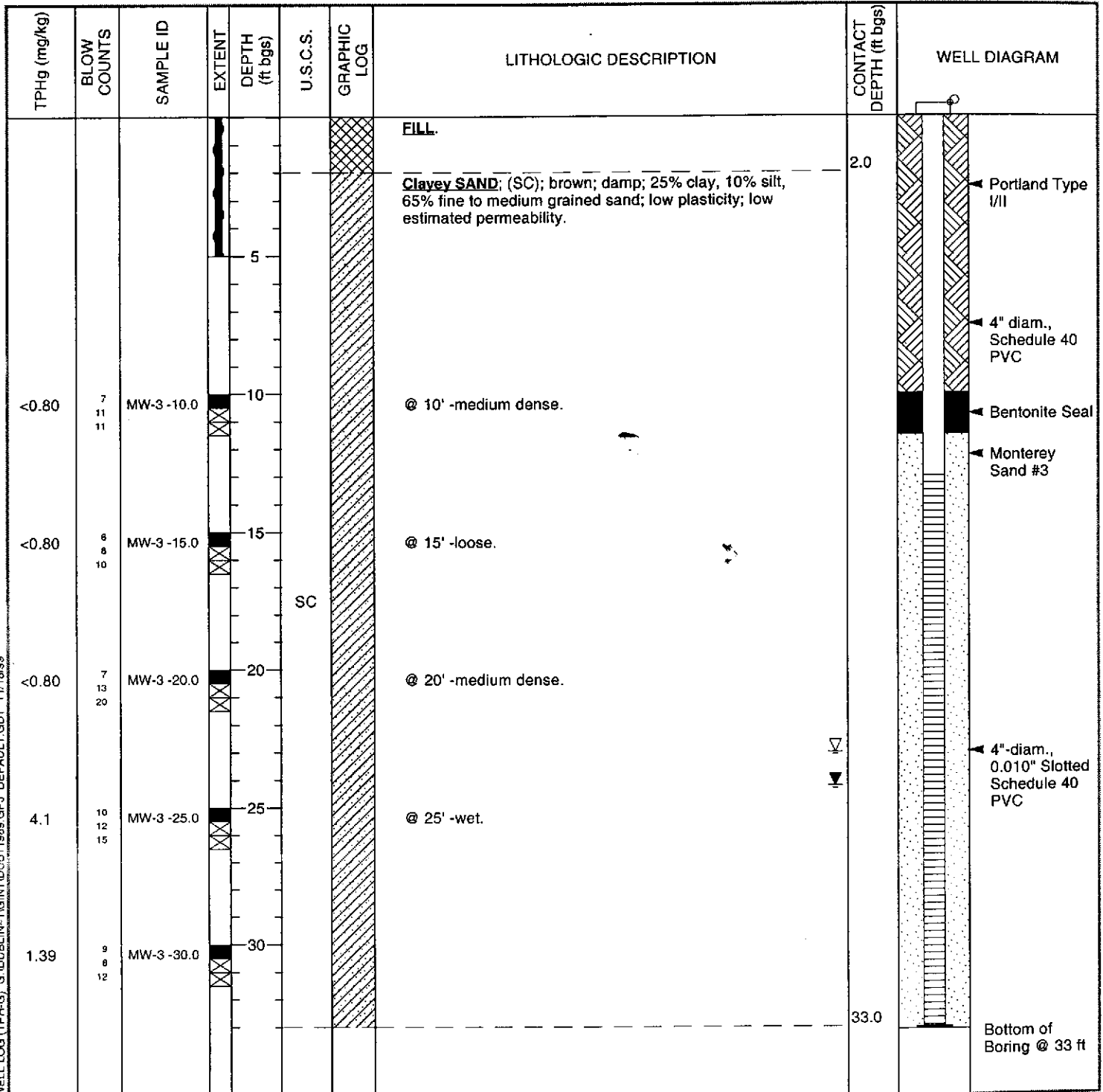
Soil Boring Logs



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

BORING/WELL LOG

CLIENT NAME	Equilon Enterprises LLC	BORING/WELL NAME	MW-3
JOB/SITE NAME	Dublin-11989	DRILLING STARTED	08-Jun-99
LOCATION	11989 Dublin Boulevard, Dublin CA	DRILLING COMPLETED	08-Jun-99
PROJECT NUMBER	240-0548	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	Not Surveyed
BORING DIAMETER	10"	SCREENED INTERVAL	13 to 33 ft bgs
LOGGED BY	J. Riggi	DEPTH TO WATER (First Encountered)	23.0 ft (08-Jun-99) ▽
REVIEWED BY	A. Le May, RG	DEPTH TO WATER (Static)	24.23ft (20-Jul-99) ▼
REMARKS	Hand augered to 5' bgs. Well is located in SE corner of station		



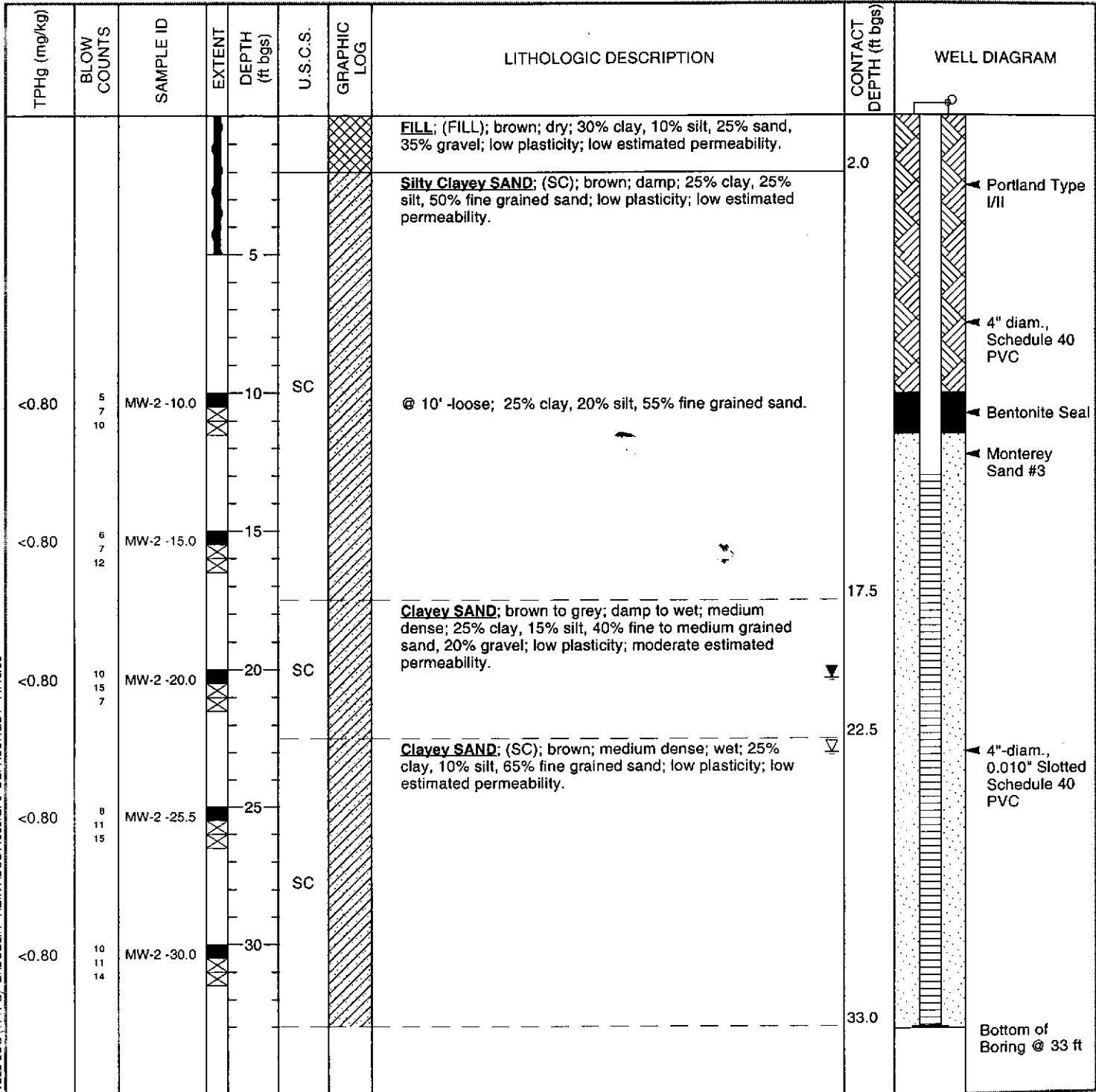
WELL LOG (TPH-G); G:\DUBLIN-1\GINT\DUB11989.GPJ DEFAULT.GDT 11/18/99



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

BORING/WELL LOG

CLIENT NAME	<u>Equilon Enterprises LLC</u>	BORING/WELL NAME	<u>MW-2</u>
JOB/SITE NAME	<u>Dublin-11989</u>	DRILLING STARTED	<u>08-Jun-99</u>
LOCATION	<u>11989 Dublin Boulevard, Dublin CA</u>	DRILLING COMPLETED	<u>08-Jun-99</u>
PROJECT NUMBER	<u>240-0548</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>10"</u>	SCREENED INTERVAL	<u>13 to 33 ft bgs</u>
LOGGED BY	<u>J. Riggi</u>	DEPTH TO WATER (First Encountered)	<u>23.0 ft (08-Jun-99)</u> ▼
REVIEWED BY	<u>A. Le May, RG</u>	DEPTH TO WATER (Static)	<u>20.31ft (20-Jul-99)</u> ▼
REMARKS	<u>Hand augered to 5' bgs., well is 35' East of existing Underground Storage Tank slab.</u>		



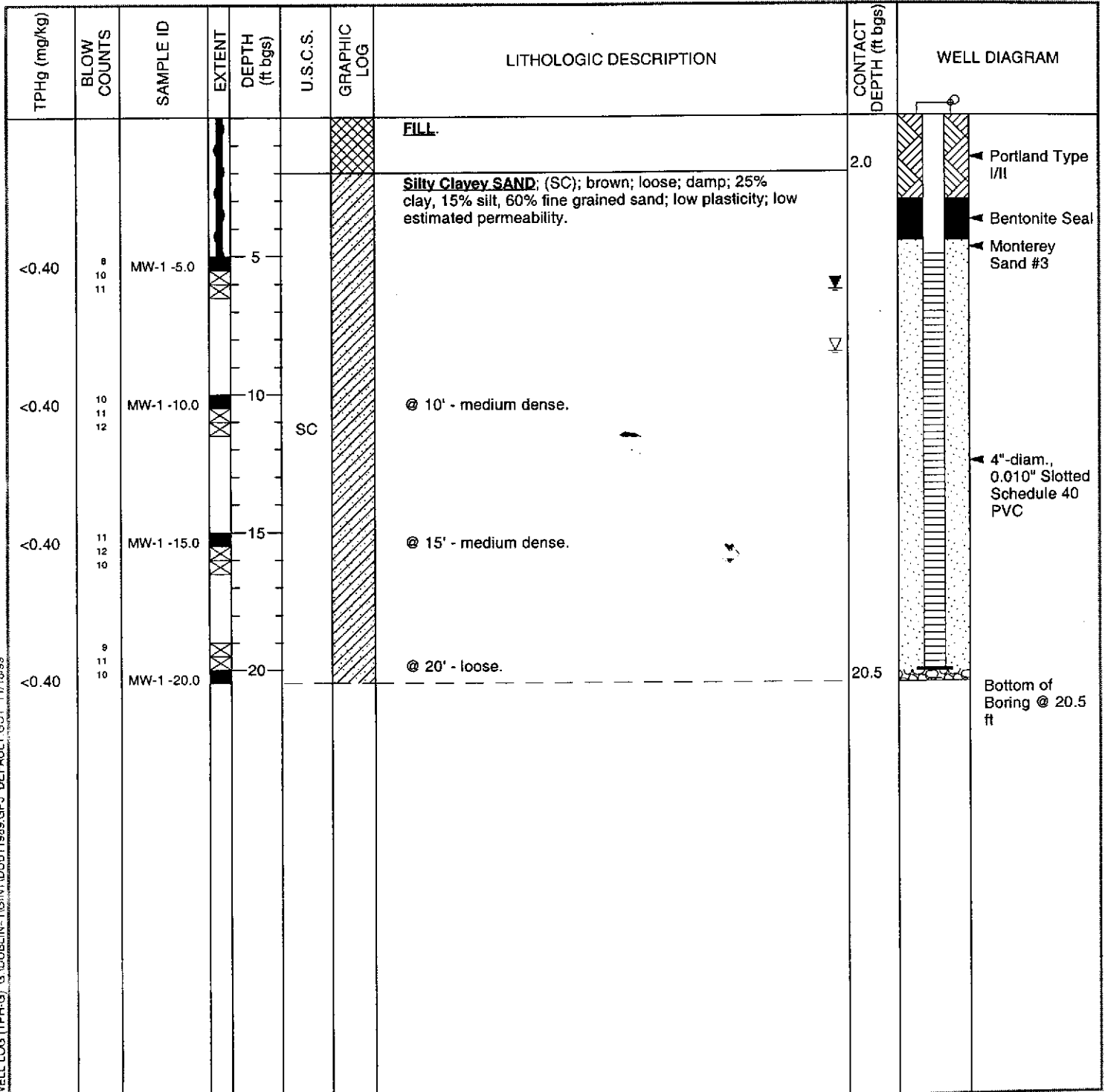
WELL LOG (TPH-G) G:\DUBLIN-11989\GPI DEFAULT.GDT 11/18/99



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

BORING/WELL LOG

CLIENT NAME	<u>Equilon Enterprises LLC</u>	BORING/WELL NAME	<u>MW-1</u>
JOB/SITE NAME	<u>Dublin-11989</u>	DRILLING STARTED	<u>09-Jun-99</u>
LOCATION	<u>11989 Dublin Boulevard, Dublin CA</u>	DRILLING COMPLETED	<u>09-Jun-99</u>
PROJECT NUMBER	<u>240-0548</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger</u>	TOP OF CASING ELEVATION	<u>Not Surveyed</u>
BORING DIAMETER	<u>10"</u>	SCREENED INTERVAL	<u>5 to 20 ft bgs</u>
LOGGED BY	<u>J. Riggi</u>	DEPTH TO WATER (First Encountered)	<u>8.5 ft (09-Jun-99)</u> ▼
REVIEWED BY	<u>A. Le May, RG</u>	DEPTH TO WATER (Static)	<u>6.24ft (20-Jul-99)</u> ▼
REMARKS	<u>Hand augered to 5' bgs., well is 12' NW of dispenser island.</u>		



WELL LOG (TPHG) G:\DUBLIN-1\GINT\DU\B11989.GPJ DEFAULT GDT 11/18/99

Attachment C

Standard Field Procedures for Monitoring Well Installation

CAMBRIA

STANDARD FIELD PROCEDURES FOR MONITORING WELLS

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

Well Construction and Surveying

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

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

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

Well Development

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

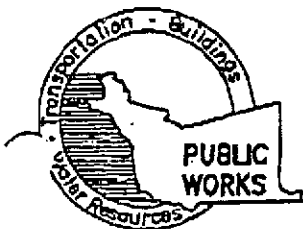
All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Attachment D

Drilling 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 11989 Dublin Blvd
Dublin Blvd

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN 941-1550-1-12

CLIENT Name EQUINA ENTERPRISES LLC
Address P.O. BOX 6249 Phone 559-645-5643
City CASAM CA Zip 90-749

APPLICANT Name CARRIA GNR - JOHN RIGGI
1144 68th ST Fax 510-420-9170
Address Phone 510-420-3340
City OAKLAND Zip 94608

TYPE OF PROJECT
 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. CS7 # 485/65 Gregg Drilling

WELL PROJECTS
Drill Hole Diameter 10 in. Maximum _____
Casing Diameter 4 in. Depth 40 ft.
Surface Seal Depth 20 ft. Number 3

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

ESTIMATED STARTING DATE 6/8/99
ESTIMATED COMPLETION DATE 6/2/99

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

APPLICANT'S SIGNATURE John Rigi DATE 5/5/99

FOR OFFICE USE

PERMIT NUMBER 99WR207
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 5-12-99

Attachment E

Well Development Field Sheets

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>990720 R-2</u>	Job # <u>98995328</u>
Sampler: <u>5m</u>	Date: <u>7-20-99</u>
Well I.D.: <u>MW-1</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>19.70</u>	Depth to Water: <u>6.24</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump

Sampling Method: Bailer Extraction Port

Other: _____

Other: _____

<u>9.0</u>	x	<u>13</u>	=	<u>117</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
13:02	70.0	6.7	1190	2200	99	Hard Bottom
13:04	69.3	6.6	1189	142.7	108	Felt /
13:06	68.9	6.7	1183	98.7	117	Clearing
						good Recharge
						Rate 2" per min

Did well dewater? Yes No Gallons actually evacuated: 117

Sampling Time: 13:11 Sampling Date: 7-20-99

Sample I.D.: MW-1 Laboratory: Sequoia BC Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>990720R-2</u>	Job # <u>98995328</u>
Sampler: <u>5m</u>	Date: <u>7-20-99</u>
Well I.D.: <u>MW-2</u>	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth: <u>32.50</u>	Depth to Water: <u>20.31</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Middleburg Electric Submersible Extraction Pump
 Other: _____

Sampling Method: Bailer Extraction Port
 Other: _____

<u>8.0</u>	x	<u>13</u>	=	<u>104</u>	Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume	

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>14:51</u>	<u>67.9</u>	<u>6.6</u>	<u>1056</u>	<u>2200</u>	<u>88</u>	<u>Agitated sub</u>
<u>14:53</u>	<u>69.2</u>	<u>6.6</u>	<u>1033</u>	<u>138.6</u>	<u>96</u>	<u>Pump in well</u>
<u>14:55</u>	<u>70.1</u>	<u>6.5</u>	<u>1027</u>	<u>98.3</u>	<u>104</u>	<u>turbid/best</u>
						<u>clearing notes</u>
						<u>Heavy Recharge</u> <u>2.5" per min.</u>

Did well dewater? Yes No Gallons actually evacuated: 104

Sampling Time: 15:09 Sampling Date: 7-20-99

Sample I.D.: MW-2 Laboratory: Sequoia BC Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

EQUIVA WELL MONITORING DATA SHEET

Project #: <u>990720 R-2</u>	Job # <u>98995328</u>
Sampler: <u>5m</u>	Date: <u>7-20-99</u>
Well I.D.: <u>MW-3</u>	Well Diameter: 2 3 <u>(4)</u> 6 8
Total Well Depth: <u>32.70</u>	Depth to Water: <u>24.23</u>
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH

Well Diameter	Multiplier	Well Diameter	Multiplier
2"	0.16	5"	1.02
3"	0.37	6"	1.47
4"	0.65	Other	radius ² * 0.163

Purge Method: Bailer Sampling Method: Bailer
Middleburg Extraction Port
Electric Submersible Other: _____
Extraction Pump
 Other: _____

_____	x	<u>13</u>	=	_____ Gals.
1 Case Volume (Gals.)		Specified Volumes		Calculated Volume

Time	Temp (°F)	pH	Cond.	Turbidity	Gals. Removed	Observations
<u>13:51</u>	<u>68.7</u>	<u>6.7</u>	<u>1590</u>	<u>115.3</u>	<u>88</u>	<u>cloudy</u>
<u>13:53</u>	<u>68.9</u>	<u>6.7</u>	<u>1566</u>	<u>99.1</u>	<u>96</u>	<u>but clearing</u>
<u>13:55</u>	<u>68.2</u>	<u>6.7</u>	<u>1542</u>	<u>89.6</u>	<u>104</u>	<u>Good Recharge</u>
						<u>1.9" per min.</u>

Did well dewater? Yes (No) Gallons actually evacuated: 104

Sampling Time: 14:10 Sampling Date: 7-20-99

Sample I.D.: MW-3 Laboratory: Sequoia BC Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL DEVELOPMENT DATA SHEET

Project #: <u>990720 R-2</u>	Client: <u>Equiva</u>
Developer: <u>5in</u>	Date Developed: <u>7-20-99</u>
Well I.D. <u>MW-1</u>	Well Diameter: (circle one) 2 3 <u>(4)</u> 6 <u> </u>
Total Well Depth: Before <u>19.70</u> After <u>19.80</u>	Depth to Water: Before <u>5.74</u> After <u>15.12</u>
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $(12 \times (d^2/4) \times \pi) / 231$ where 12 = in / foot d = diameter (in.) $\pi = 3.1416$ 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

<u>9.0</u>	<u>X</u>	<u>13</u>	<u>=</u>	<u>117</u>
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer Electric Submersible

 Middleburg Suction Pump

Type of Installed Pump _____

Other equipment used Surge Block

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
12:35	69.5	6.7	1206	7200	9	Swabbed 5 minutes
12:37	70.1	6.7	1217	7200	18	Dark silt/no sand
12:39	70.4	6.7	1193	7200	27	Heavy turbidity
12:41	70.2	6.7	1196	7200	36	Agitated sub. pump
12:43	70.9	6.7	1192	7200	45	Swabbed 5 minutes
12:48	70.3	6.7	1189	7200	54	Still heavy
12:50	69.6	6.7	1202	7200	63	Hit Bottom!
12:52	69.0	6.7	1212	7200	72	Dark
12:54	70.1	6.7	1194	7200	81	Swabbed well 5
12:59	70.2	6.7	1183	7200	90	minutes

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 117

WELL DEVELOPMENT DATA SHEET

Project #: <u>990720 R-2</u>	Client: <u>Equiva</u>
Developer: <u>Jim</u>	Date Developed: <u>7-20-99</u>
Well I.D. <u>MW-2</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>32.35</u> After	Depth to Water: Before <u>19.91</u> After
Reason not developed:	If Free Product, thickness:
Additional Notations:	

Volume Conversion Factor (VCF): $(12 \times (d^2/4) \times \pi) / 231$ where: 12 = in / foot d = diameter (in.) $\pi = 3.1416$ 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	
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------	--

<u>8.0</u>	X	<u>13</u>	=	<u>104</u>
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer Electric Submersible

 Middleburg Suction Pump

Type of Installed Pump _____

Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
14:25	68.9	6.7	1091	7200	8	Swabbed well 5
14:27	70.3	6.6	1123	7200	16	minutes
14:29	69.1	6.6	1084	7200	24	odor/turbid
14:31	68.7	6.6	1079	7200	32	Swabbed well 5
14:36	68.3	6.6	1064	7200	40	minutes
14:38	68.5	6.6	1059	148.6	48	odor/clearing
14:40	68.4	6.6	1103	122.6	56	Hit Hard Bottom
14:42	68.0	6.5	1120	112.1	64	Swabbed well 5
14:47	68.5	6.6	1104	7200	72	minutes
14:49	68.2	6.6	1098	134.6	80	cloudy/persistent odor

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 104

WELL DEVELOPMENT DATA SHEET

Project #: <u>990720 R-2</u>	Client: <u>Stall</u>
Developer: <u>Jim</u>	Date Developed: <u>7-20-99</u>
Well I.D. <u>MW-3</u>	Well Diameter: (circle one) 2 3 <u>(4)</u> 6 <u> </u>
Total Well Depth: Before <u>32.10</u> After <u> </u>	Depth to Water: Before <u>20.98</u> After <u> </u>
Reason not developed: <u> </u>	If Free Product, thickness: <u> </u>
Additional Notations: <u> </u>	

<p>Volume Conversion Factor (VCF): (12 x (d²/4) x π) / 231</p> <p>where 12 = in / foot d = diameter (in.) π = 3.1416 231 = in³/gal</p>	<table border="1" style="font-size: small;"> <tr><th>Well dia.</th><th>VCF</th></tr> <tr><td>2"</td><td>= 0.16</td></tr> <tr><td>3"</td><td>= 0.37</td></tr> <tr><td>4"</td><td>= 0.65</td></tr> <tr><td>6"</td><td>= 1.47</td></tr> <tr><td>10"</td><td>= 4.08</td></tr> <tr><td>12"</td><td>= 6.87</td></tr> </table>	Well dia.	VCF	2"	= 0.16	3"	= 0.37	4"	= 0.65	6"	= 1.47	10"	= 4.08	12"	= 6.87
Well dia.	VCF														
2"	= 0.16														
3"	= 0.37														
4"	= 0.65														
6"	= 1.47														
10"	= 4.08														
12"	= 6.87														

<u>7.2</u>	X	<u>13</u>	=	<u>93.6</u>
1 Case Volume		Specified Volumes		gallons

Purging Device: Bailer Electric Submersible
 Middleburg Suction Pump

Type of Installed Pump _____
 Other equipment used _____

TIME	TEMP (F)	pH	COND.	TURBIDITY	VOLUME REMOVED:	NOTATIONS:
13:25	68.2	6.7	1801	7200	8	Swabbed well
13:27	69.5	6.7	1823	7200	16	Turbid Grey-
13:29	68.7	6.7	1779	7200	24	Silt
13:31	68.4	6.7	1783	7200	32	Swabbed well for
13:36	67.8	6.8	1755	157.8	40	5 minutes
13:38	67.9	6.8	1763	163.0	48	clearing / no odor
13:40	67.6	6.7	1721	139.6	56	cloudy
13:42	67.1	6.7	1683	134.2	64	swabbed well 5
13:47	67.8	6.8	1651	139.8	72	minutes / still
13:49	68.5	6.7	1623	127.6	80	Silty but becoming
						lite.

Did Well Dewater? NO If yes, note above. Gallons Actually Evacuated: 104

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. 1703-22

John Riggi
Cambria Environmental
1144 65th Street, Suite C
Oakland, Ca. 94608

Subject: Monitoring Well Survey
Shell Service Station
11989 Dublin Blvd.
Dublin, Ca.

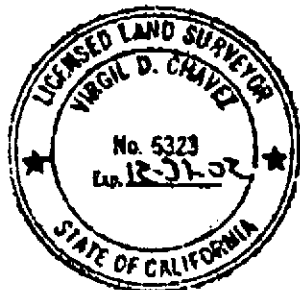
Dear Mr. Riggi:

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 a bronze disk established by the USGS, located under a manhole cover in the left turn lane in front of Mervyn's on Dublin Blvd. 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 easterly. Benchmark Elevation = 347.662 feet, MSL.

<u>Monitoring Well No.</u>	<u>Rim Elevation</u>	<u>TOC Elevation</u>
MW - 1	368.23'	367.99'
MW - 2	365.78'	365.43'
MW - 3	365.55'	364.97'

<u>Well No.</u>	<u>Station</u>	<u>Offset</u>
MW - 1	0-32.22	-71.16(Lt.)
MW - 2	1+14.98	-16.09(Lt.)
MW - 3	1+17.45	21.93(Rt.)
SW Bldg Cor.	0+00.00	0.00
NW Bldg Cor.	0+57.78	0.00

Sincerely,



Virgil D. Chavez
Virgil D. Chavez, PLS 6328

Attachment G

Disposal Confirmation Data



FORWARD
INCORPORATED

P.O. Box 6336
1145 W. Charter Way • Stockton, CA 95206
(209) 466-4482 • (800) 204-4242 • FAX (209) 466-1067

July 1, 1999

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

Attn: Darryk Ataide

Re: Approval No. 850802
Soil
11989 Dublin Blvd, Dublin, CA

Dear Mr. Ataide:

FORWARD INC. is pleased to inform you that the approximately 7 tons of Soil from the referenced site has been approved for acceptance at our Manteca, California Landfill as a Class 2 waste. This approval has been based on the information provided in the waste profile and associated materials submitted on behalf of Equilon Enterprises LLC (Generator). Acceptance of the waste is subject to regulatory requirements, and is also subject to the "Terms and Conditions" agreed to and signed by Generator in the waste profile.

Your approval number for this project will be 850802. This number should be used in all scheduling and correspondence with **FORWARD, INC.** regarding this waste profile.

This profile shall remain in effect until December 31, 1999, or until any significant changes in the waste stream occur. At that time, **FORWARD, INC.** will re-evaluate the profile, and current analytical data and requirements will be reviewed.

Please schedule all waste shipments with the Landfill (209-982-4298) at least 24 hours in advance. The landfills hours of operation are Monday through Friday 6:00 am to 4:30 pm for soil, 6:00 am to 3:00 pm for all other waste types.

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

Sincerely,

FORWARD, INC.

Brad J. Bonner
Sales Manager

BJB/xh

Attachment H

Department of Water Resources
Well Completion Reports

5 **CONFIDENTIAL**

**STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)**

REMOVED