



FOUNDED 1930

DOUGLAS PARKING COMPANY

PARKING CONSULTANTS, MANAGEMENT & LEASING

1721 WEBSTER STREET
OAKLAND, CALIFORNIA 94612

TELEPHONE (510) 444-7412, 444-7352; FAX (510) 452-3654

STUD 4870
LS

ENVIRONMENTAL
PROTECTION
98 OCT -9 PM 3:28
98 OCT -9 PM 3:28

October 8, 1998

ACDEH
UST Oversight Program
1131 Harbor Bay Parkway, 2nd floor
Alameda, Ca. 94502

Attn: Jennifer Eberle

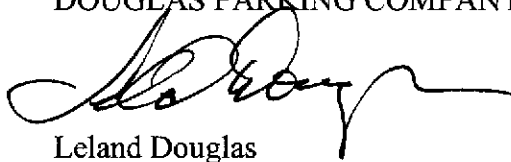
Dear Ms. Eberle,

Enclosed please find copy of Third Quarter 1998 Semi-Annual Monitoring Report for our location at 1721 Webster St., Oakland.

Thank you for teaching me to copy on both sides of the paper in order to help save our trees.

Sincerely,

DOUGLAS PARKING COMPANY



Leland Douglas

LD/lm
Encl.

C A M B R I A

ENVIRONMENTAL
PROTECTION

58 SEP 30 PM 3:31

September 28, 1998

Mr. Lee Douglas
Douglas Parking
1721 Webster Street
Oakland, California 94612



Re: **Third Quarter 1998 Semi-Annual Monitoring Report**
Douglas Parking
1721 Webster Street
Oakland, California
Cambria Project# 580-0197

Dear Mr. Douglas:

This report summarizes the third quarter 1998 semi-annual ground water monitoring results for the site referenced above (Figure 1). Described below are the third quarter 1998 activities, the anticipated future activities, and the current hydrocarbon distribution in ground water.

THIRD QUARTER 1998 ACTIVITIES

Ground Water Sampling: On August 11, 1998, Cambria collected and analyzed ground water samples from wells MW-2, MW-3, MW-4 and MW-5 for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary butyl ether (MTBE). Cambria also gauged all site wells and checked for separate-phase hydrocarbons (SPH). No SPH were detected. The ground water elevation data and analytic data are summarized in Table 1. The analytical report for ground water is included in Attachment A. The water sampling field notes are included as Attachment B.

Oxygen Releasing Compound (ORC) Update: To enhance the natural bioattenuation of dissolved hydrocarbons, Cambria installed a string of six one-foot ORC socks in well MW-2 on January 8, 1998. Well MW-2 was not purged during quarterly monitoring to maintain the effectiveness of the oxygenated well water. Dissolved oxygen (DO) concentrations were monitored in MW-2 and in the remaining wells prior to purging. DO concentrations were significantly higher in well MW-2 (5.4 mg/L) compared to other wells (0.05 - 2.8 mg/L). The ORC socks were inspected during the third quarter monitoring event, appeared to be in good condition, and are scheduled for replacement during the next sampling event.

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

ANTICIPATED FUTURE ACTIVITIES

Ground Water Sampling: The next sampling event is scheduled for the first quarter of 1999. At that time, Cambria will gauge all site wells, check for SPH, and collect and analyze ground water samples from wells MW-2, MW-3, MW-4 and MW-5 for TPHg, BTEX and MTBE. Cambria will prepare a report summarizing these activities.

Semi-Annual DO Monitoring: Cambria will continue to monitor DO concentrations in all wells on a semi-annual basis to determine the effectiveness of ORCs. Cambria will replace the ORCs when DO concentrations return to pre-ORC installation levels.



HYDROCARBON DISTRIBUTION IN GROUND WATER

Ground water elevation data indicate that ground water flows towards the north-northeast with a gradient of 0.004 ft/ft (Figure 1). Consistent with historic data, hydrocarbons were detected in wells MW-2, MW-3 and MW-4. Benzene was only detected in well MW-2, which is located immediately down gradient of the former underground storage tank (UST) area. The extent of hydrocarbons in ground water is defined to below method reporting limits in the northern cross gradient direction by well MW-1 and in the down gradient direction by well MW-5.

Most importantly, hydrocarbon concentrations continue to exhibit an overall decreasing trend in source area well MW-2 and in up gradient well MW-3. In these wells, the hydrocarbon concentrations remain at or near their historic low concentration. The dramatic decline in concentrations in well MW-2 may be attributable to the installation of ORCs in that well.

CLOSING

We appreciate this opportunity to provide environmental consulting services to Douglas Parking. Please call if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc.



John Riggi
John Riggi
Staff Geologist

Bob Clark-Riddell
Bob Clark-Riddell, PE
Principal Engineer



Attachments: A - Analytical Report for Ground Water Sampling
B - Water Sampling Field Notes

cc: Tom Peacock, ACDEH, UST Local Oversight Program, 1131 Harbor Bay Parkway,
2nd Floor, Alameda, CA 94502

H:\MISC\DOUGLAS\QMS\QM-3-98.WPD

EXPLANATION

- Ground Water Monitoring Well
- SB-A ⊕ Soil Boring Location

MW-1	Well ID
8.90	Ground Water Elevation
NS	Benzene Conc. in Ground Water

- NS Not Sampled
- ND Not Detected

— 8.8 Ground Water Elevation Contour (ft)

→ Ground Water Flow Direction and Gradient (ft/ft)

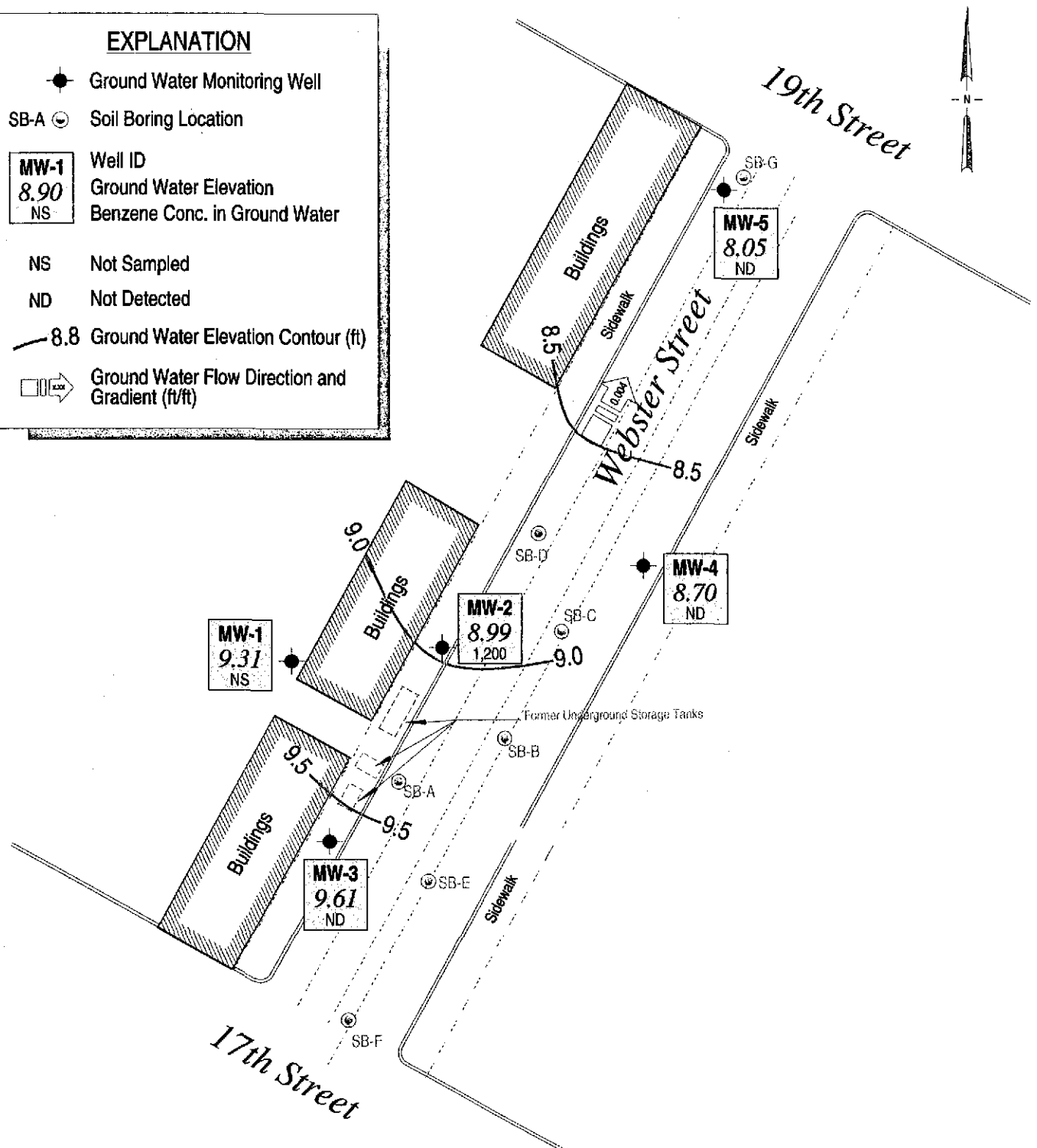


FIGURE
1

Base map from Piers Environmental Services

Douglas Parking Facility
1721 Webster Street
Oakland, California



Ground Water Elevation Contours
August 11, 1998

CAMBRIA

Table 1. Ground Water Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID	Date	Well Elev. (ft)	G W Depth (ft)	G W Elev. (ft)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO (mg/L)	Notes	
													← (Concentrations in µg/l) →
MW-1	12/02/94	29.25	19.42	9.83	nd	nd	nd	nd	nd	-	-	1	
	03/06/95	29.73	20.69	9.04	nd	nd	nd	nd	nd	-	-	1	
	07/11/95	29.81	20.65	9.16	nd	nd	nd	nd	nd	-	-		
	05/10/96	29.81	20.80	9.01	nd	nd	nd	nd	nd	-	-		
	10/02/96	29.81	21.35	8.46	-	-	-	-	-	-	-	2	
	02/28/97	29.81	20.57	9.24	-	-	-	-	-	-	-	2	
	09/16/97	29.81	21.50	8.31	-	-	-	-	-	-	-	2	
	02/05/98	29.81	20.91	8.90	-	-	-	-	-	-	1.9	2	
	08/11/98	29.81	20.50	9.31	-	-	-	-	-	-	0.06	2	
MW-2	12/02/94	27.10	19.50	7.60	61,300	3,000	3,900	160	4,500	-	-	1	
	03/06/95	27.10	18.49	8.61	98,000	8,400	16,000	2,000	2,600	-	-	1	
	07/11/95	27.40	18.45	8.95	38,000	3,100	7,500	940	3,700	-	-		
	05/10/96	27.40	18.56	8.84	63,000	7,400	16,000	1,500	6,000	-	-		
	10/02/96	27.40	19.15	8.25	21,000	2,200	3,400	430	1,600	-	-		
	02/28/97	27.40	18.43	8.97	39,000	4,700	9,600	950	4,200	nd	-		
	09/16/97	27.40	19.26	8.14	29,000	3,300	5,800	690	2,900	<620	-		
	02/05/98	27.40	18.66	8.74	10,000	1,000	2,000	170	860	<330	7.9		
		08/11/98	27.40	18.41	8.99	12,000	1,200	2,300	260	1,400	300	5.4	a
MW-3	12/02/94	29.50	22.15	7.35	394,000	1,200	nd	1,800	4,000	-	-	1	
	03/06/95	29.25	20.09	9.16	21,000	400	150	24	62	-	-	1	
	07/11/95	29.56	19.99	9.57	12,000	nd	10	16	99	-	-		
	05/10/96	29.56	20.24	9.32	8,600	nd	7.6	16	84	-	-		
	10/02/96	29.56	20.90	8.66	11,000	nd	7.4	19	92	-	-		
	02/28/97	29.56	20.12	9.44	6,000	nd	4.4	17	88	50	-		
	09/16/97	29.56	20.97	8.59	6,500	<0.5	1	1	7	<5.0	-		
	02/05/98	29.56	20.39	9.17	5,400	<0.5	6.3	15	86	<63	1.9		
		08/11/98	29.56	19.95	9.61	2,700	<0.5	3.5	3.2	12	<10	0.05	b,j
MW-4	05/10/96	25.29	16.98	8.31	14,000	nd	1,200	720	3,100	-	-		

ORC installed →
on 1-8-98

Table 1. Ground Water Elevation and Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID	Date	Well Elev. (ft)	G W Depth (ft)	G W Elev. (ft)	TPHg ←	(Concentrations in µg/l)					DO (mg/L)	Notes
						Benzene	Toluene	Ethylbenzene	Xylenes	MTBE		
	10/02/96	25.29	17.65	7.64	12,000	nd	650	580	2,200	-	-	
	02/28/97	25.29	16.80	8.49	13,000	nd	1,100	750	2,700	110	-	
	09/17/97	25.29	17.93	7.36	13,000	<2.5	820	750	2,900	<190	-	
	02/05/98	25.29	16.78	8.51	13,000	<1.0	690	690	2,900	<170	2.1	
	08/11/98	25.29	16.59	8.70	15,000	<5	360	520	1,900	280	2.8	bj
MW-5												
	05/10/96	21.97	14.60	7.37	nd	nd	nd	nd	nd	-	-	
	10/02/96	21.97	15.25	6.72	nd	nd	nd	nd	nd	-	-	
	02/28/97	21.97	14.31	7.66	nd	nd	nd	nd	nd	nd	-	
	09/17/97	21.97	15.18	6.79	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	-	
	02/05/98	21.97	13.64	8.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.8	
	08/11/98	21.97	13.92	8.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.05	

Notes and Abbreviations:

Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020.

G W = Ground water

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

MTBE = methyl tertiary butyl ether per EPA Method 8020.

Elev. = Elevation

µg/L = micrograms per liter

mg/L = milligrams per liter

1 = Data prior to 7/11/95 from Gen Tech and Piers Environmental Quarterly Groundwater Monitoring Reports dated December 2, 1994 and March 6, 1995, respectively.

2 = Per letter dated September 17, 1996 to Douglas Parking from ACDEH, sampling no longer required in well MW-1.

nd = not detected

DO = dissolved oxygen

ATTACHMENT A

Analytical Report for Ground Water Sampling



McCAMPBELL ANALYTICAL INC.

110 Second Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Environmental Technology 1144 65 th Street, Suite C Oakland, CA 94608	Client Project ID: #580-398; Douglas Parking	Date Sampled: 08/11/98
	Client Contact: John Riggi	Date Received: 08/12/98
	Client P.O:	Date Extracted: 08/12-08/13/98
		Date Analyzed: 08/12-08/13/98

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*
 EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Recovery Surrogate
93359	MW-2	W	12,000,a	300	1200	2300	260	1400	105
93360	MW-3	W	2700,b,j	ND<10	ND	3.5	3.2	12	92
93361	MW-4	W	15,000,b,j	280	ND<5	360	520	1900	95
93362	MW-5	W	ND	ND	ND	ND	ND	ND	94
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	W	50 ug/L	5.0	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

cluttered chromatogram; sample peak coelutes with surrogate peak

*The following descriptions of the TPH chromatogram are *cursorry in nature* and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are *significant*(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 08/12/98-08/13/98

Matrix: WATER

Analyte	Concentration (mg/L)			Amount Spiked	% Recovery		RPD
	Sample (#93350)	MS	MSD		MS	MSD	
TPH (gas)	0.0	90.6	93.6	100.0	90.6	93.6	3.3
Benzene	0.0	9.4	9.4	10.0	94.0	94.0	0.0
Toluene	0.0	9.6	9.6	10.0	96.0	96.0	0.0
Ethyl Benzene	0.0	9.7	9.8	10.0	97.0	98.0	1.0
Xylenes	0.0	29.1	29.8	30.0	97.0	99.3	2.4
TPH(diesel)	0.0	142	156	150	94	104	10.0
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

$$\% \text{ Rec.} = (\text{MS} - \text{Sample}) / \text{amount spiked} \times 100$$

$$\text{RPD} = (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) \times 2 \times 100$$

12001 x2.305

McCAMBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #D7
PACIFICCO, CA 94553

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HOUR 48 HOUR 5 DAY

Report To: DAN RICE Bill To: [Signature]

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

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

Project #: 580-398 Project Name: Douglas Parking

Project Location: 1721 Webster Oakland

Sampler Signature: [Signature]

Analysis Request Other Comments

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED													
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other										
MW-2		8/11/98	155	3	WA	<input checked="" type="checkbox"/>																		
MW-3			300	3		<input checked="" type="checkbox"/>																		
MW-4			400	3		<input checked="" type="checkbox"/>																		
MW-5			325	3		<input checked="" type="checkbox"/>																		

BTEX & TPH as Gas (602/8020 + 8015) MTBE	
TPH as Diesel (8015)	
Total Petroleum Oil & Grease (5520 E&F/B&F)	
Total Petroleum Hydrocarbons (418.1)	
EPA 601 / 8010	
BTEX ONLY (EPA 602 / 8020)	
EPA 608 / 8080	
EPA 608 / 8080 PCB's ONLY	
EPA 624 / 8240 / 8260	
EPA 625 / 8270	
PAH's / PNA's by EPA 625 / 8270 / 8310	
CAM-17 Metals	
LUFT 5 Metals	
Lead (7240/7421/239.2/6010)	
RCI	

93359
93360
93361
93362

IDENTIFICATION
GOOD CONDITION
HEAD SPACE ABSENT
PRESERVATION APPROPRIATE
CONTAINERS
VOLATILE METALS

Relinquished By: [Signature] Date: 8-12 Time: 9 Received By: B. Butts

Relinquished By: [Signature] Date: 8-12 Time: 10:10 Received By: Ima A. Butts

Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Remarks: MTBE by 8020

ATTACHMENT B

Water Sampling Field Notes

DAILY FIELD REPORT

Project Name: <i>Douglas Harbor</i>	Cambria Mgr: <i>RAS</i>	Field Person: <i>[Signature]</i>
Project Number: <i>580-398</i>	Date: <i>9/11/98</i>	Site Address: <i>1721 Webster Oakland CA</i>
General Tasks: <i>3 Qtr H₂O Sampling</i>		

Time	Activity/Comments	Code	Hours
<i>1200</i>	<i>MCB</i>		
<i>1235</i>	<i>Arrive at 1721 Webster + prep wells, let H₂O stabilize</i>		
	<i>Gauge wells & measure D.O.</i>		
<i>1240</i>	<i>MW-1 20.50 (OTW) 29.91 (TD) 0.06</i>		
	<i>MW-5 17.42 24.63 0.05</i>		
	<i>MW-4 16.59 24.88 2.20</i>		
	<i>MW-3 19.95 22.05 0.05</i>		
<i>1300</i>	<i>MW-2 18.41 27.08 5.4</i>		
<i>1355</i>	<i>Sample MW-2, core rock still green & in good shape. Bed not changed.</i>		
	<i>Prep'd & collected 3 VOA's from MW-3, MW-4, & MW-5.</i>		
	<i>All equipment was properly decontaminated prior to each sampling event.</i>		
<i>1410</i>	<i>Leave Site</i>		
<i>435</i>	<i>Arrive at Cambria & Dinner.</i>		

WELL SAMPLING FORM

Project Name: <i>Douglas Variation</i>	Cambria Mgr: <i>RAS</i>	Well ID: <i>MW-1</i>
Project Number: <i>500-378</i>	Date: <i>2/11/03</i>	Well Yield:
Site Address: <i>1721 Webster Oakland CA</i>	Sampling Method: <i>Disposable Bailer</i>	Well Diameter: <i>2"</i>
		Technician(s): <i>JR</i>
Initial Depth to Water: <i>20.5</i>	Total Well Depth: <i>26.91</i>	Water Column Height:
Volume/ft:	1 Casing Volume:	3 Casing Volumes:
Purging Device: <i>Sub (Whisker)</i>	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ft. *D.O = 0.06 mg/l*

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp.	pH	Cond.	Comments

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>NS</i>			<i>VOA</i>	<i>HCL</i>	<i>TPH, BTEX, MTBE</i>	<i>9015-8020</i>

WELL SAMPLING FORM

Project Name: <i>Douglas Junction</i>	Cambria Mgr: <i>RAS</i>	Well ID: <i>MW-2</i>
Project Number: <i>586-398</i>	Date: <i>8/11/98</i>	Well Yield:
Site Address: <i>1721 Webster Oakland CA</i>	Sampling Method: <i>Disposable Baiter</i>	Well Diameter: <i>2"</i>
		Technician(s): <i>JR</i>
Initial Depth to Water: <i>18.41</i>	Total Well Depth: <i>27.08</i>	Water Column Height: <input checked="" type="checkbox"/>
Volume/ft: <i>-</i>	1 Casing Volume: <i>-</i>	3 Casing Volumes:
Purging Device: <i>Sub (Whorlee)</i>	Did Well Dewater?: <i>-</i>	Total Gallons Purged: <i>-</i>
Start Purge Time: <i>-</i>	Stop Purge Time: <i>-</i>	Total Time:

1 Casing Volume = Water column height x Volume/ft.

$DO = 5.4 \text{ mg/L}$

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.63
6"	1.47

Time	Casing Volume	Temp.	pH	Cond.	Comments
	<i>No</i>	<i>1</i>			<i>no solids in well</i>

* *no solids in good shape, change next str.*

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-2</i>	<i>8/11/98</i>	<i>155</i>	<i>VOA</i>	<i>HCL</i>	<i>TPH, BTEX, MTBE</i>	<i>8015-8026</i>

WELL SAMPLING FORM

Project Name: <u>Douglas Pavilion</u>	Cambria Mgr: <u>KRS</u>	Well ID: <u>MW-3</u>
Project Number: <u>570-399</u>	Date: <u>8/11/93</u>	Well Yield: <u>✓</u>
Site Address: <u>1721 Webster Oakland CA</u>	Sampling Method: <u>Disposable Baiter</u>	Well Diameter: <u>2"</u>
		Technician(s): <u>JR</u>
Initial Depth to Water: <u>19.95</u>	Total Well Depth: <u>28.05</u>	Water Column Height: <u>8.1</u>
Volume/ft: <u>0.16</u>	1 Casing Volume: <u>1.35</u>	3 Casing Volumes: <u>3.9</u>
Purging Device: <u>Sub (Wholer)</u>	Did Well Dewater?: <u>—</u>	Total Gallons Purged: <u>3.9</u>
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp.	pH	Cond.	Comments
<u>7:40</u>	<u>1</u>	<u>37.5</u>	<u>7.5</u>	<u>430</u>	<u>Start of day</u>
<u>8:00</u>	<u>2</u>	<u>37.2</u>	<u>7.1</u>	<u>390</u>	
<u>8:33</u>	<u>3</u>	<u>25.9</u>	<u>6.8</u>	<u>313</u>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<u>MW-3</u>	<u>8/11/93</u>	<u>300</u>	<u>VOA</u>	<u>HCL</u>	<u>TPH, BTEX, MTBE</u>	<u>9015-8026</u>

WELL SAMPLING FORM

Project Name: <i>Douglas Pavilion</i>	Cambria Mgr: <i>EAS</i>	Well ID: <i>MW-4</i>
Project Number: <i>580-398</i>	Date: <i>8/11/98</i>	Well Yield: <i>—</i>
Site Address: <i>1721 Webster Oakland CA</i>	Sampling Method: <i>Disposable Baiter</i>	Well Diameter: <i>2"</i>
		Technician(s): <i>JR</i>
Initial Depth to Water: <i>16.59</i>	Total Well Depth: <i>29.88</i>	Water Column Height: <i>13.29</i>
Volume/ft: <i>0.16</i>	1 Casing Volume: <i>2.12</i>	3 Casing Volumes: <i>6.37</i>
Purging Device: <i>Sub (Whizzer)</i>	Did Well Dewater?: <i>No</i>	Total Gallons Purged: <i>6.37</i>
Start Purge Time:	Stop Purge Time:	Total Time:

1 Casing Volume = Water column height x Volume/ft.

DO. 0.05 mg/L

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp.	pH	Cond.	Comments
<i>340</i>	<i>1</i>	<i>24.9</i>	<i>7.2</i>	<i>335</i>	<i>slight</i>
<i>350</i>	<i>2</i>	<i>23.1</i>	<i>7.0</i>	<i>230</i>	<i>odor</i>
<i>355</i>	<i>3</i>	<i>22.7</i>	<i>6.9</i>	<i>150</i>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-4</i>	<i>8/11/98</i>	<i>4:00</i>	<i>VOA</i>	<i>HCL</i>	<i>TPH, BTEX, MTBE</i>	<i>9015-8020</i>

WELL SAMPLING FORM

Project Name: <i>Douglas Junction</i>	Cambria Mgr: <i>RAS</i>	Well ID: <i>MW-5</i>
Project Number: <i>580-390</i>	Date: <i>2/11/98</i>	Well Yield:
Site Address: <i>1721 Webster Oakland CA</i>	Sampling Method: <i>Disposable Baiter</i>	Well Diameter: <i>2"</i>
		Technician(s): <i>JR</i>
Initial Depth to Water: <i>12.55</i>	Total Well Depth: <i>24.63</i>	Water Column Height: <i>12.08</i>
Volume/ft: <i>0.16</i>	1 Casing Volume: <i>1.93</i>	3 Casing Volumes: <i>5.79</i>
Purging Device: <i>Sub (Wholer)</i>	Did Well Dewater?: <i>No</i>	Total Gallons Purged: <i>5.79</i>
Start Purge Time: <i>305</i>	Stop Purge Time: <i>320</i>	Total Time: <i>15 min</i>

1 Casing Volume = Water column height x Volume/ft.

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp. °C	pH	Cond.	Comments
<i>305</i>	<i>1</i>	<i>30.1</i>	<i>7.0</i>	<i>600</i>	<i>slight odor</i>
<i>310</i>	<i>2</i>	<i>22.9</i>	<i>7.1</i>	<i>590</i>	
<i>320</i>	<i>3</i>	<i>22.1</i>	<i>6.9</i>	<i>421</i>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-5</i>	<i>2/11/98</i>	<i>325</i>	<i>VOA</i>	<i>HCL</i>	<i>TPH, BTEX, MTBE</i>	<i>8015-8026</i>

WELL SAMPLING FORM

Project Name: Douglas Parking	Cambria Mgr: RAS	Well ID: MWS
Project Number: 580-0197	Date: 2/8/99	Well Yield: —
Site Address: 1721 Webster Street Oakland, California	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): JJ
Initial Depth to Water: 14.19	Total Well Depth: 24.63	Water Column Height: 10.44
Volume/ft: 0.16	1 Casing Volume: 1.67 gal	3 Casing Volumes: 5.01 gal
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 5.5 gal
Start Purge Time: 1043	Stop Purge Time: 1054	Total Time: 11 min

1 Casing Volume = Water column height x Volume/ ft.

DO = **3.0 mg/L**

Well Diam.	Volume/ft (gallons)
2"	0.16
4"	0.65
6"	1.47

Time	Casing Volume	Temp.	pH	Cond.	Comments
1043	1	6.5	9.5	99	pH meter not reading occasional 0
1046	2	6.7	9.6	104	
1052	3	6.5	9.5	101	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MWS	2/8/99	1105	4 voa's	HCL	TPHg, BTEX, MTBE	8020 8015