October 15, 1996



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

Re: Second Semi-Annual 1996 Monitoring Report

Douglas Parking 1721 Webster Street Oakland, California

Dear Mr. Douglas:

This report summarizes the second semi-annual 1996 (third quarter 1996) ground water monitoring results for the site referenced above (Figure 1). Described below are the second semi-annual 1996 activities, the anticipated first semi-annual 1997 activities, and a discussion of the current hydrocarbon distribution in ground water.

SECOND SEMI-ANNUAL 1996 ACTIVITIES

Ground Water Sampling: On October 2, 1996, 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) and benzene, toluene, ethylbenzene and xylenes (BTEX). Cambria also gauged all site wells and measured any liquid-phase hydrocarbons (LPH). No LPH were detected. The analytic report for ground water is included in Attachment A.

CAMBRIA

ENVIRONMENTAL ANTICIPATED FIRST SEMI-ANNUAL 1997 ACTIVITIES

 TECHNOLOGY, INC.
 Ground Water Sampling: Cambria will collect and analyze ground water samples from wells MW-2,

 1144 65TH STREET,
 MW-3, MW-4 and MW-5 for TPHg and BTEX. Cambria will also gauge all site wells and measure any

 LPH.

 SUITE B

Oakland,

CA 94608

Рн: (510) 420-0700

Fax: (510) 420-9170

Mr. Lee Douglas October 15, 1996

CAMBRIA

HYDROCARBON DISTRIBUTION IN GROUND WATER

Ground water elevation data indicates that ground water flows towards the northeast with a gradient of 0.006 ft/ft (Figure 1). Consistent with historic data, hydrocarbon concentrations in ground water are highest in well MW-2, located immediately down gradient of the former underground storage tank area, and no benzene is detected in any other site wells. The extent of hydrocarbons is defined to non-detectable levels in the cross and down gradient directions by wells MW-1 and MW-5, respectively.

CLOSING

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

Sincerely, Cambria Environmental Technology, Inc.

John Espinoza

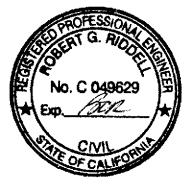
Staff Engineer

Bob Clark-Riddell, PE Principal Engineer

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Attachments: A - Analytic Report for Ground Water

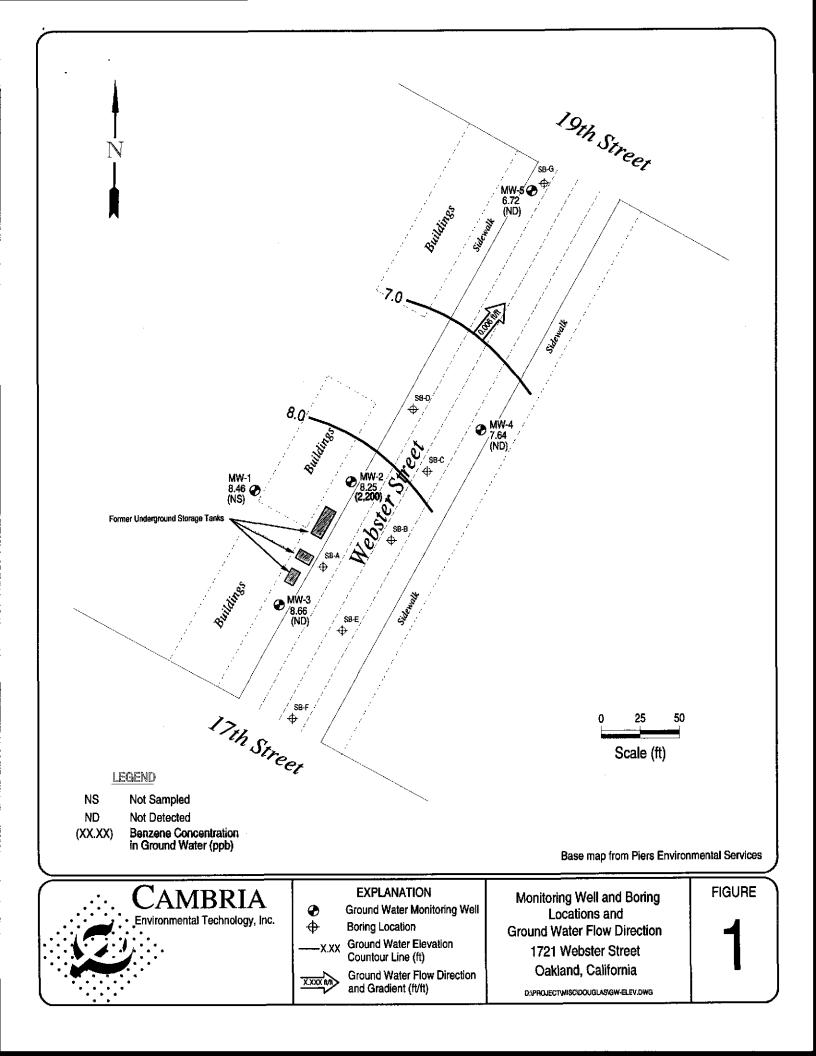
cc: Jennifer Eberle, ACDEH, UST Local Oversight Program, 1131 Harbor Bay Parkway, 2nd Floor, Alameda, CA 94502



CAMBRIA

ATTACHMENT A

Analytic Report for Ground Water



CAMBRIA

Well ID	Date	Well	GW	GW	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	Notes
		Elev. (ft)	Depth (ft)	Elev. (ft)		(Cc	oncentrations in	ug/l)		
MW-1	12/02/94	29.25	19.42	9.83	nd	nd	nd	nd	nđ	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						not sample
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	а
	05/10/96	27.40	18.56	8.84	63,000	7,400	16,000	1,500	6,000	а
	10/02/96 🌙	27.40	19.15	8.25		F 1 2200 /		430	1,600	a
	2422.2 CHE YO KOLING SEAL YOOKONLAK YE REFORMENT O						and a second	An Andrew And		1 10 10 10 10 10 10 10 10 10 10 10 10 10
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	20.0 9	9.16	21,000	400	150	24	62	1
	07/11/95	29.56	19.99	9.57	12,000	nd	10	16	99	b,c,d
	05/10/96	29.56	20.24	9.32	8,600	nd	7.6	16	84	b,d
	10/02/96	29.56	20.90	8.66	11,000 🚝	nd 🦯	7.4	19	92	b,d
MW-4	05/10/96	25.29	16.98	8.31	14,000	nd	1,200	720	3,100	b
	10/02/96	25.29	17.65	764	12,000 🚩	nd	650	580	2,200	b,d
MW-5	05/10/96	21.97	14.60	7.37	nd	nđ	nd	nd	nd	
	10/02/96	21.97	15.25	6.72	nd 🏎	nd 🦯	nd .	nd	nd a see	

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

Notes and Abbreviations

G W = Ground water

TPHg = Total petroleum hydrocarbons as gasoline per Modified EPA Method 8015.

Elev. = Elevation

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.

a - Unmodified or weakly modified gasoline is significant

b - Analytic laboratory reports that heavier gasoline range compounds are significant (possible aged gasoline)

c - Analytic laboratory reports that lighter gasoline range compounds (the most mobile fraction) are significant

d - Analytic laboratory reports that gasoline range compounds having broad chromatographic peaks are significant; possible biologically altered gasoline

CAMBRIA

ATTACHMENT A

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Analytic Report for Ground Water

10/11/96

Dear Sam:

Enclosed are:

1). the results of 4 samples from your Douglas Parking project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

a that

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

Cambria E	Invironmental T	echnolog	gy Client Pi	oject ID: I	Douglas Pa	Date Sampled: 10/02/96										
1144 65th \$	Street, Suite C					Date Received: 10/04/96										
Oakland, (CA 94608		Client C	ontact: Sar	n Rangarai:	Date Extracted: 10/05-10/08/96										
			Client P.	0:		Date Analyzed: 10/05-10/08/96										
Gasolin EPA method	ne Range (C6-C is 5030, modified 80	12) Vola 15, and 802	t ile Hydroca 10 or 602; Califo	r bons as (ornia RWQC)	Gasoline*, v B (SF Bay Rej	vith Methy	yl tert-Butyl HGCFID(5030	Ether* &	BTEX*							
Lab ID	Client ID	Matrix	TPH(g) ⁺	MTBE	Benzene	Toluene	Ethylben- zene	Xylenes	% Rec. Surrogate							
69792	MW-2	w	21,000,a		2200 -	3400	430	1600	97							
69793	MW-3	w	11,000,b,d -		ND< 1/	7.4	19	92	104							
69794	MW-4	w	12,000,b, d -		ND /	650	580	2200	101							
69795	MW-5	w	ND 🗸		ND	ND	ND	ND	99							
						-										
					 											
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Reporting	g Limit unless	w	50 ug/L	5,0	0.5	0.5	0.5	0.5								
otherwise stated; ND means not detected above the reporting limit		s	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005								

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

[#] chuttered chromatogram; sample peak coelutes with surrogate peak

⁺ The following descriptions of the TRH chromatogram are cursory 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?, c) 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.

DHS Certification No. 1644

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Edward Hamilton, Lab Director

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/05/96

Matrix: Water

 	Concent	ration	(ug/L)		* Reco	very	
Analyte	Sample (#69717) 	MS	MSD	Amount Spiked	MS	MSD	RPD
 TPH (gas) Benzene Toluene	0.0	102.9 9.1	98.1 9.5	100.0 10.0	102.9 91.0	98.1 95.0	4.8
Ethyl Benzene Xylenes 	0.0 0.0 0.0	9.1 8.9 26.8	9.4 9.3 26.4	10.0 10.0 30.0	91.0 89.0 89.3	94.0 93.0 88.0	3.2 4.4 1.5
TPH (diesel)	N/A	N/A	N/A	N/A	N/A	N/A	N/A
 TRPH (oil & grease) 	 N/A 	N/A	N/A	N/A	N/A	N/A	N/A

* Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

McCAMPBELL ANALYTICAL INC.

QC REPORT FOR HYDROCARBON ANALYSES

Date: 10/08/96

Matrix: Water

Analyte	Concent:	ration	(ug/L)	1	* Reco		
	Sample (#69801) 	MS	MSD	Amount Spiked	MS	MSD	RPD
 TPH (gas) Benzene	 0.0 0.0	108.8	103.4	100.0	108.8	103.4	5.0
Toluene Ethyl Benzene	0.0	12.0 11.3	10.3 10.3	10.0 10.0	110.0 120.0 113.0	102.0 103.0 103.0	7.5 15.2 9.3
Xylenes	0.0	36.0	30.8	30.0	120.0	102.7	15.6
TPH (diesel)	0	153	167	150	102	111	8.5
TRPH (oil & grease)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

% Rec. = (MS - Sample) / amount spiked x 100

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

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