

R0129

C A M B R I A

June 10, 2005

Mr. Don Hwang  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502

Re: **Groundwater Monitoring Report – Second Quarter 2005**

Douglas Parking Company  
1721 Webster Street  
Oakland, California  
File No. 4070  
Cambria Project No. 580-0197

RECEIVED  
JUN 10 2005  
CAMBRIA ENVIRONMENTAL TECHNOLOGY



Dear Mr. Hwang:

On behalf of Mr. Lee Douglas of Douglas Parking Company, Cambria Environmental Technology, Inc. has prepared this *Groundwater Monitoring Report – Second Quarter 2005* for the above-referenced site. This report describes the second quarter 2005 activities and results as well as the anticipated third quarter 2005 activities.

If you have any questions or comments, please call me at (510) 420-3361.

Sincerely,  
**Cambria Environmental Technology, Inc.**

Subbarao Nagulapaty  
Project Engineer

Attachment: *Groundwater Monitoring Report – Second Quarter 2005*

**Cambria  
Environmental  
Technology, Inc.**

cc: Mr. Lee Douglas, Douglas Parking Company, 1721 Webster Street, Oakland, California 94612 (2 copies)

5900 Hollis Street  
Suite A  
Emeryville, CA 94608  
Tel (510) 420-0700  
Fax (510) 420-9170

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GROUNDWATER MONITORING REPORT – SECOND QUARTER 2005

Douglas Parking Company  
1721 Webster Street  
Oakland, California  
File No. 4070  
Cambria Project No. 580-0197

June 10, 2005



*Prepared for:*

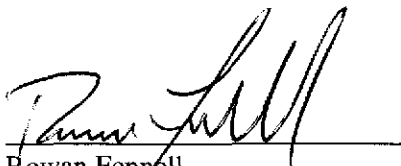
Mr. Lee Douglas  
1721 Webster Street  
Oakland, California 94612

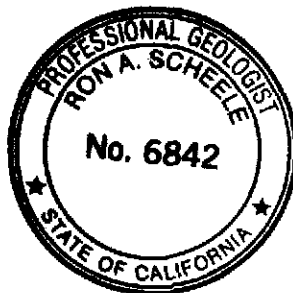
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*Prepared by:*

Cambria Environmental Technology, Inc.  
5900 Hollis Street, Suite A  
Emeryville, California 94608

*Written by:*

  
Rowan Fennell  
Senior Staff Scientist



  
Ron Scheele, P.G.  
Senior Geologist


# C A M B R I A

## GROUNDWATER MONITORING REPORT – SECOND QUARTER 2005

Douglas Parking Company  
1721 Webster Street  
Oakland, California  
File No. 4070  
Cambria Project No. 580-0197

June 10, 2005

### INTRODUCTION



On behalf of Douglas Parking Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Groundwater Monitoring Report – Second Quarter 2005* for the above-referenced site. Presented below are the second quarter 2005 activities and results, and the anticipated third quarter 2005 activities.

### SECOND QUARTER 2005 ACTIVITIES AND RESULTS

#### Monitoring Activities

**Field Activities:** On April 5, 2005, Cambria coordinated quarterly monitoring with Muskan Environmental Sampling (MES) to gauge depth-to-water groundwater levels and inspect for separate-phase hydrocarbons (SPH) in monitoring wells MW-1 through MW-7 (Figure 1). No SPH was detected and MES collected groundwater samples from monitoring wells MW-2 through MW-7.

Prior to sample collection, MES purged approximately three well-casing volumes of groundwater and recorded groundwater pH, conductivity, and temperature readings. After groundwater parameters had stabilized, groundwater samples were collected using clean, disposable bailers and decanted into the appropriate containers supplied by the analytical laboratory. Samples were labeled, stored on crushed water-based ice at or below 4 degrees Celsius and transported under chain-of-custody to the laboratory. Field data sheets are presented as Appendix A.

**Sample Analyses:** Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified United States Environmental Protection Agency (EPA) Method 8015C, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method 8021B by McCampbell Analytical, Inc. of Pacheco, California, a California-certified laboratory. A one-time analysis for fuel oxygenates and lead scavengers by EPA Method 8260B was also performed as requested by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated April 1, 2005. The laboratory analytical report is included as Appendix B. The analytical data has been submitted to the GeoTracker database (Appendix C).

## Monitoring Results

**Groundwater Flow Direction:** Based on depth-to-water measurements collected on April 5, 2005, groundwater beneath the site flows toward the northeast with a gradient of 0.006 feet per foot (Figure 1). The gradient is consistent with historical data. Depth to water and groundwater elevation data are presented in Table 1.

**Hydrocarbon and MTBE Distribution in Groundwater:** Hydrocarbons were detected in four of the six wells sampled this quarter (Figure 1 and Table 1). Maximum TPHg and benzene concentrations were detected in well MW-2 at 34,000 micrograms per liter ( $\mu\text{g/L}$ ) and 3,700  $\mu\text{g/L}$ , respectively. No hydrocarbon compounds were detected in the groundwater samples from wells MW-5 and MW-7. MTBE was not detected above laboratory reporting limits in any of the sampled wells.

Cambria has also performed a one-time analysis for fuel oxygenates and lead scavengers by EPA Method 8260 wells as requested by ACHCSA. No fuel oxygenates or lead scavengers were detected above laboratory reporting limits in any of the wells, except for 11  $\mu\text{g/L}$  of 1,2-Dichloroethane (1,2-DCA) in MW-2. The laboratory analytical report is presented in Appendix B.

## ANTICIPATED THIRD QUARTER 2005 ACTIVITIES

### Monitoring Activities

Cambria will coordinate with MES to gauge all the site wells, inspect the wells for SPH, and collect groundwater samples from wells MW-2, MW-3, MW-4, MW-5, MW-6, and MW-7. Groundwater samples will be analyzed for TPHg by modified EPA Method 8015C, and BTEX and MTBE by EPA Method 8021B. Following field activities, Cambria will tabulate the data, contour groundwater elevations, and prepare a quarterly groundwater monitoring report.

### Corrective Action Activities

Cambria will prepare and submit design plans to the City of Oakland building department to obtain appropriate permits for installing a soil vapor extraction/air sparge (SVE/AS) system to remediate the site. A copy of the design plans will also be submitted to the ACHCSA.

**ATTACHMENTS**

Figure 1 – Groundwater Elevation Contours and Hydrocarbon Concentration Map – April 5, 2005

Table 1 – Groundwater Elevation and Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – Laboratory Analytical Report

Appendix C – GeoTracker Electronic Delivery Confirmations



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**EXPLANATION**

- MW-1 Groundwater monitoring well
- SV-1/AS-1 Remediation wells
- A-1 Groundwater monitoring well (Prentiss property)
- SB-A Soil boring location
- HP-1 Hydropunch location (Prentiss property)
- G-1/SB-1 Soil boring location (Prentiss property)
- Former USTs / dispensers
- Tank piping
- |         |
|---------|
| Well ID |
| ELEV    |
| TRG     |
| BENZ    |
| MTE     |

 Well ID, Groundwater elevation, Concentrations in groundwater in micrograms per liter (µg/L)
- Groundwater elevation contour line
- Groundwater flow direction and gradient (ft./ft.)
- NS Not Sampled

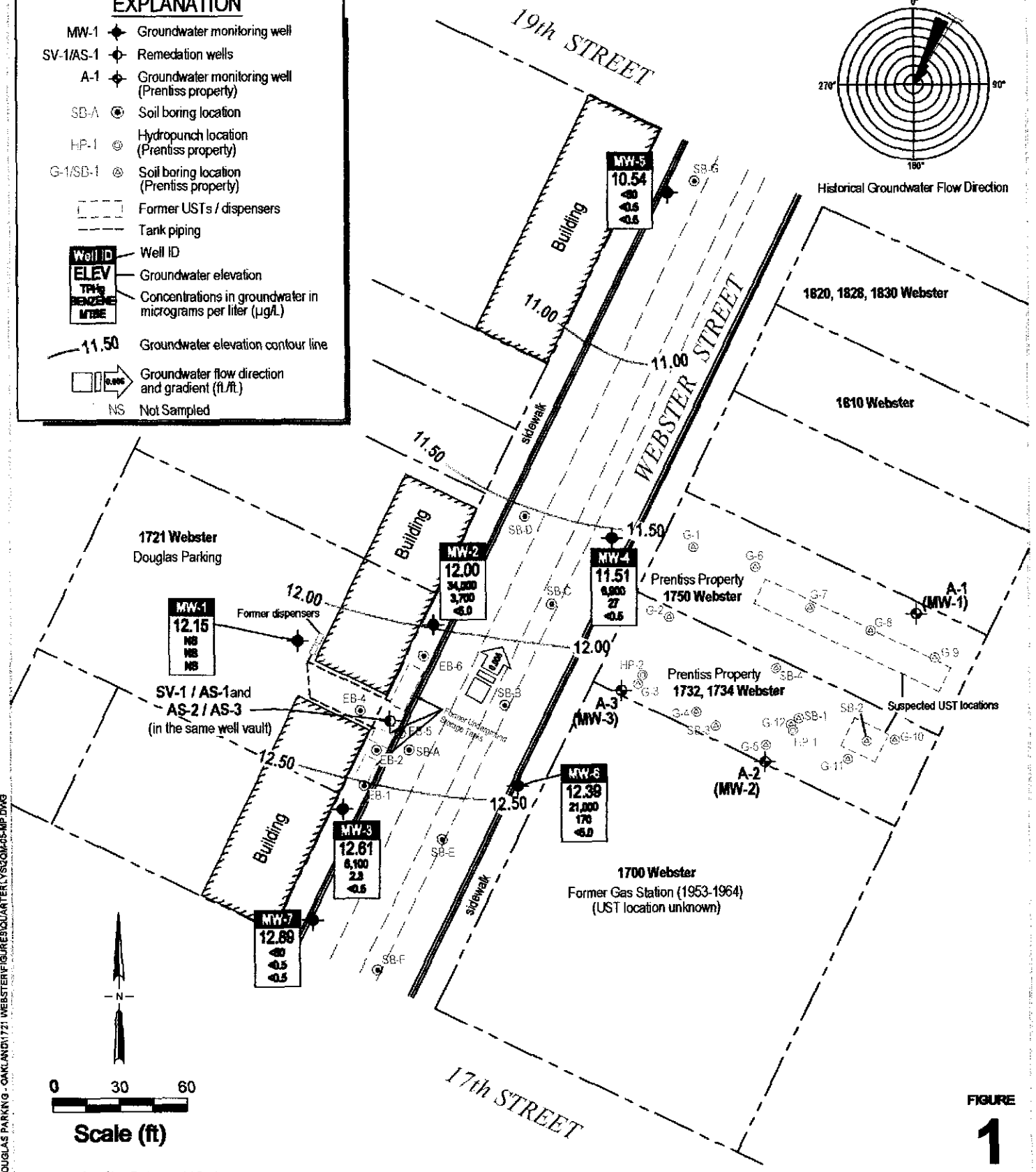
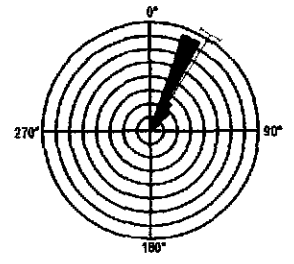


FIGURE 1

H:\DOUGLAS PARKING - OAKLAND\1721 WEBSTER\FIGURE\QUARTERLY\SYSD04-05-AP.DWG

Base map from Piers Environmental Services

**Douglas Parking Facility**  
 1721 Webster Street  
 Oakland, California



C A M B R I A

**Groundwater Elevation Contours and  
 Hydrocarbon Concentration Map**  
 April 5, 2005

# CAMBRIA

**Table 1. Groundwater Elevation and Analytical Data**  
Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
<b>Grab Groundwater Samples</b>									
SB-A	2/22/1996	~20	-	16,000	38	16	180	620	-
SB-B	2/22/1996	~20	-	20,000	100	29	320	590	-
SB-C	2/22/1996	~20	-	1,200	130	100	68	230	-
SB-D	2/22/1996	~20	-	7,400	550	110	160	89	-
SB-E	2/23/1996	~20	-	16,000	31	160	390	1,400	-
SB-F	2/23/1996	~20	-	<50	<0.5	1.4	<0.5	2.3	-
SB-G	2/23/1996	-15	-	5,200	1.3	<0.5	0.70	<0.5	-
<b>Groundwater Monitoring Well Samples</b>									
MW-1	12/2/1994	19.42	9.83	ND	ND	ND	ND	ND	-
29.25	3/6/1995	20.69	9.04	ND	ND	ND	ND	ND	-
29.73	7/11/1995	20.65	9.16	ND	ND	ND	ND	ND	-
29.81	5/10/1996	20.80	9.01	ND	ND	ND	ND	ND	-
	10/2/1996	21.35	8.46	-	-	-	-	-	-
	2/28/1997	20.57	9.24	-	-	-	-	-	-
	9/16/1997	21.50	8.31	-	-	-	-	-	-
	2/5/1998	20.91	8.90	-	-	-	-	-	-
	8/11/1998	20.50	9.31	-	-	-	-	-	-
	2/8/1999	21.42	8.39	-	-	-	-	-	-
	2/24/1999	22.99	6.82	-	-	-	-	-	-
	3/3/1999	20.84	8.97	-	-	-	-	-	-
	3/10/1999	20.89	8.92	-	-	-	-	-	-
	3/17/1999	20.84	8.97	-	-	-	-	-	-
	5/4/1999	20.80	9.01	-	-	-	-	-	-
	7/20/1999	21.25	8.56	-	-	-	-	-	-
	10/5/1999	21.37	8.44	-	-	-	-	-	-
	1/7/2000	21.65	8.16	-	-	-	-	-	-
	4/6/2000	21.05	8.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/31/2000	21.13	8.68	-	-	-	-	-	-
	10/3/2000	21.69	8.12	-	-	-	-	-	-
	1/12/2001	22.00	7.81	-	-	-	-	-	-
	4/11/2001	22.16	7.65	-	-	-	-	-	-
	7/6/2001	22.57	7.24	-	-	-	-	-	-
	10/25/2001	22.71	7.10	-	-	-	-	-	-
	3/4/2002	22.53	7.28	-	-	-	-	-	-
	4/18/2002	22.81	7.00	-	-	-	-	-	-
	7/9/2002	22.95	6.86	-	-	-	-	-	-
	10/4/2002	23.13	6.68	-	-	-	-	-	-
	1/12/2003	22.05	7.76	-	-	-	-	-	-
	4/21/2003	21.17	8.64	-	-	-	-	-	-
32.75	7/21/2003	21.39	11.36	-	-	-	-	-	-
	10/2/2003	21.64	11.11	-	-	-	-	-	-
	1/15/2004	21.10	11.65	-	-	-	-	-	-
	4/5/2004	21.20	11.55	-	-	-	-	-	-
	8/9/2004	22.97	9.78	-	-	-	-	-	-
	10/7/2004	23.55	9.20	-	-	-	-	-	-
	2/7/2005	20.90	11.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2005	20.60	12.15	-	-	-	-	-	-
MW-2	12/2/1994	19.50	7.60	61,300	3,000	3,900	160	4,500	-
27.10	3/6/1995	18.49	8.61	98,000	8,400	16,000	2,000	2,600	-
27.40	7/11/1995	18.45	8.95	38,000	3,100	7,500	940	3,700	-
	5/10/1996	18.56	8.84	63,000	7,400	16,000	1,500	6,000	-
	10/2/1996	19.15	8.25	21,000	2,200	3,400	430	1,600	-
	2/28/1997	18.43	8.97	39,000	4,700	9,600	950	4,200	ND
	9/16/1997	19.26	8.14	29,000	3,300	5,800	690	2,900	<620
	2/5/1998	18.66	8.74	10,000	1,000	2,000	170	860	<330
	8/11/1998	18.41	8.99	12,000	1,200	2,300	260	1,400	300
	2/8/1999	19.84	7.56	5,500	740	1,200	150	780	60

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**Table 1. Groundwater Elevation and Analytical Data**  
Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-2	2/17/1999	18.94	8.46	-	-	-	-	-	-
<i>(cont'd)</i>	2/24/1999	20.76	6.64	-	-	-	-	-	-
	3/3/1999	18.55	8.85	-	-	-	-	-	-
	3/10/1999	20.74	6.66	-	-	-	-	-	-
	3/17/1999	18.57	8.83	-	-	-	-	-	-
	5/4/1999	18.55	8.85	90,000	9,200	21,000	1,600	10,000	560
	7/20/1999	18.98	8.42	28,000	2,100	3,700	900	4,200	<860
	10/5/1999	19.10	8.30	11,000	870	180	30	1,400	<110
	1/7/2000	19.41	7.99	15,000	1,300	2,100	440	1,800	<14
	4/6/2000	18.80	8.60	17,000	1,800	3,100	500	2,200	<50
	7/31/2000	18.87	8.53	17,000	1,500	2,700	430	2,100	<200
	10/3/2000	19.45	7.95	27,000	2,500	4,000	660	2,900	<50
	1/12/2001	19.80	7.60	25,000	2,700	4,100	670	3,000	<200
	4/11/2001	20.03	7.37	97,000	9,500	21,000	2,200	7,900	<200
	7/6/2001	20.19	7.21	3,500	500	150	11	420	<5.0
	10/25/2001	20.35	7.05	3,800	620	230	70	400	<50
	3/4/2002	20.37	7.03	46,000	7,300	12,000	870	3,200	<500
	4/18/2002	20.15	7.25	68,000	5,100	8,900	1,100	4,000	<1,000
	7/9/2002	21.09	6.31	1,000	200	8.9	0.67	82	<10
	10/4/2002	21.28	6.12	270	100	3.4	0.53	10	<5.0
	1/12/2003	20.59	6.81	67,000	7,600	13,000	1,400	5,600	<500
	4/21/2003	19.98	7.42	78,000	7,700	12,000	1,900	6,900	<500
30.40	7/21/2003	20.08	10.32	1,800	360	16	<5.0	190	<50
	10/2/2003	20.41	9.99	4,000	790	110	60	350	<50
	1/15/2004	19.93	10.47	8,100	6.1	23	44	530	<50
	4/5/2004	18.99	11.41	14,000	1,600	2,100	550	2,500	<500
	8/9/2004	19.79	10.61	1,200	210	16	14	100	<20
	10/7/2004	20.26	10.14	1,100	2.3	9.8	2.9	36	<5.0
	2/7/2005	18.80	11.60	45,000	4,400	4,800	1,400	5,800	<200
	4/5/2005	18.40	12.00	34,000	3,700	3,600	1,200	5,300	<500 (<5.0)
MW-3	12/2/1994	22.15	7.35	394,000	1,200	ND	1,800	4,000	-
29.50	3/6/1995	20.09	9.16	21,000	400	150	24	62	-
29.25	7/11/1995	19.99	9.57	12,000	ND	10	16	99	-
29.56	5/10/1996	20.24	9.32	8,600	ND	7.6	16	84	-
	10/2/1996	20.90	8.66	11,000	ND	7.4	19	92	-
	2/28/1997	20.12	9.44	6,000	ND	4.4	17	88	50
	9/16/1997	20.97	8.59	6,500	<0.5	0.69	1.2	6.7	<5.0
	2/5/1998	20.39	9.17	5,400	<0.5	6.3	15	86	<63
	8/11/1998	19.95	9.61	2,700	<0.5	3.5	3.2	12	<10
	2/8/1999	20.58	8.98	6,100	<0.5	8.1	18	80	<140
	2/17/1999	20.53	9.03	-	-	-	-	-	-
	2/24/1999	22.53	7.03	-	-	-	-	-	-
	3/3/1999	20.28	9.28	-	-	-	-	-	-
	3/10/1999	22.45	7.11	-	-	-	-	-	-
	3/17/1999	20.26	9.30	-	-	-	-	-	-
	5/4/1999	20.24	9.32	11,000	<2	<2	9.8	140	<10
	7/20/1999	20.68	8.88	11,000	<0.5	3.1	13	88	<80
	10/5/1999	20.81	8.75	31,000	62	<0.5	21	170	<90
	1/7/2000	21.09	8.47	13,000	<0.5	<2	21	140	<80
	4/6/2000	20.48	9.08	5,300	1.5	1.4	9.8	60	<30
	7/31/2000	20.62	8.94	7,100	3.5	1.0	12	66	<5.0
	10/3/2000	21.13	8.43	8,000	<0.5	3.3	11	70	<40
	1/12/2001	21.45	8.11	11,000	4.3	6.7	11	73	<70
	4/11/2001	21.69	7.87	10,000	<0.5	<0.5	11	65	<10
	7/6/2001	21.60	7.96	13,000	5.3	1.6	11	58	<5.0
	10/25/2001	21.70	7.86	11,000	<0.5	3.0	15	70	<10
	3/4/2002	21.65	7.91	1,900	1.3	0.8	<0.5	15	<5.0
	4/18/2002	21.77	7.79	1,500	1.0	0.97	1.3	5.8	<5
	7/9/2002	22.03	7.53	13,000	6.8	5.7	13	59	<90
	10/4/2002	22.15	7.41	8,400	<10	<10	<10	42	<100



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**Table 1. Groundwater Elevation and Analytical Data**  
Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID TOC	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-3	1/12/2003	21.13	8.43	9,000	9.5	5.1	8.5	46	<90
(cont'd)	4/21/2003	20.63	8.93	10,000	<5.0	<5.0	8.5	32	<50
32.56	7/21/2003	20.68	11.88	9,600	<2.5	<2.5	7.4	39	48 (<1.0)
	10/2/2003	20.99	11.57	12,000	<5.0	<5.0	10	40	<90
	1/15/2004	20.74	11.82	13,000	37	41	78	930	<50
	4/5/2004	20.59	11.97	4,500	<1.7	<1.7	<1.7	12	<17
	8/9/2004	22.18	10.38	2,100	<1.0	3.7	<1.0	8.1	<10
	10/7/2004	22.79	9.77	2,400	6.5	26	7.5	89	<15
	2/7/2005	20.35	12.21	6,800	2.2	5.6	2.0	12	<30
	4/5/2005	19.95	12.61	6,100	2.3	2.6	1.3	8.3	<45 (<0.5)
MW-4	5/10/1996	16.98	8.31	14,000	ND	1,200	720	3,100	-
25.29	10/2/1996	17.65	7.64	12,000	ND	650	580	2,200	-
	2/28/1997	16.80	8.49	13,000	ND	1,100	750	2,700	110
	9/17/1997	17.93	7.36	13,000	<2.5	820	750	2,900	<190
	2/5/1998	16.78	8.51	13,000	<1.0	690	690	2,900	<170
	8/11/1998	16.59	8.70	15,000	<5	360	520	1,900	280
	2/8/1999	17.10	8.19	9,800	<5	680	770	2,200	300
	2/24/1999	18.95	6.34	-	-	-	-	-	-
	3/3/1999	16.80	8.49	-	-	-	-	-	-
	3/10/1999	16.86	8.43	-	-	-	-	-	-
	3/17/1999	16.82	8.47	-	-	-	-	-	-
	5/4/1999	16.86	8.43	11,000	46	600	620	1,900	<100
	7/20/1999	17.30	7.99	13,000	<0.5	470	7.0	2,000	<150
	10/5/1999	17.43	7.86	18,000	4.4	720	800	2,100	<120
	1/7/2000	17.78	7.51	18,000	<2	930	990	2,700	<30
	4/6/2000	17.17	8.12	8,000	31	390	530	1,300	<10
	7/31/2000	17.21	8.08	6,200	13	170	460	850	<10
	10/3/2000	18.00	7.29	14,000	42	820	730	2,000	<50
	1/12/2001	18.20	7.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/11/2001	18.31	6.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	18.35	6.94	470	2.3	1.6	0.81	43	<5.0
	10/25/2001	18.47	6.82	110	0.70	<0.5	<0.5	3.3	<5.0
	3/4/2002	18.43	6.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/18/2002	18.61	6.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/9/2002	19.50	5.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/4/2002	19.83	5.46	310	2.0	2.9	13	16	<0.5
	1/12/2003	19.07	6.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/21/2003	18.71	6.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0
28.29	7/21/2003	18.81	9.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	19.02	9.27	59	0.78	<0.5	1.1	0.91	<5.0
	1/15/2004	18.68	9.61	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2004	17.41	10.88	6,200	29	250	450	730	<100
	8/9/2004	19.07	9.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/7/2004	19.65	8.64	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/7/2005	17.21	11.08	8,700	48	340	550	720	<100
	4/5/2005	16.78	11.51	6,900	27	290	520	660	<170 (<0.5)
MW-5	5/10/1996	14.60	7.37	ND	ND	ND	ND	ND	-
21.97	10/2/1996	15.25	6.72	ND	ND	ND	ND	ND	-
	2/28/1997	14.31	7.66	ND	ND	ND	ND	ND	ND
	9/17/1997	15.18	6.79	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0
	2/5/1998	13.64	8.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/11/1998	13.92	8.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/8/1999	14.19	7.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/1999	16.18	5.79	-	-	-	-	-	-
	3/3/1999	14.23	7.74	-	-	-	-	-	-
	3/10/1999	14.32	7.65	-	-	-	-	-	-
	3/17/1999	14.25	7.72	-	-	-	-	-	-
	5/4/1999	14.41	7.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/20/1999	14.44	7.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0

# CAMBRIA

**Table 1. Groundwater Elevation and Analytical Data**  
Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID TOC	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-5	10/5/1999	14.79	7.18	<50	<0.5	<0.5	<0.5	<0.5	<5.0
(cont'd)	1/7/2000*	15.23	6.74	-	-	-	-	-	-
	4/6/2000	14.74	7.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/31/2000	14.52	7.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/3/2000	15.37	6.60	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/12/2001	15.70	6.27	6,400	13	290	450	1,100	<40
	4/11/2001	15.78	6.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	15.97	6.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/25/2001	16.05	5.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/4/2002	16.21	5.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/18/2002	16.59	5.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/9/2002	16.94	5.03	170	1.0	0.65	2.1	4.0	<15
	10/4/2002	17.14	4.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/12/2003	16.58	5.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/21/2003	15.90	6.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0
24.99	7/21/2003	16.03	8.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	16.33	8.66	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/15/2004	16.21	8.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2004	15.01	9.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/9/2004	16.85	8.14	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/7/2004	17.48	7.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/7/2005	16.52	8.47	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2005	14.45	10.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0 (<0.5)
MW-6	6/30/2003	19.60	11.39	68,000	950	6,000	2,400	10,000	<1,000
30.99	7/21/2003	19.67	11.32	120,000	170	1,400	1,100	10,000	<1,000
	10/2/2003	19.97	11.02	16,000	7.6	200	38	1,800	<100
	1/15/2004	19.55	11.44	14,000	48	51	94	1,100	<50
	4/5/2004	19.17	11.82	24,000	180	900	430	1,800	<500
	8/9/2004	20.98	10.01	5,300	6.4	25	5.3	69	<17 (<0.5)
	10/7/2004	21.52	9.47	5,600	11	58	18	210	<50 (<0.5)
	2/7/2005	19.00	11.99	31,000	120	620	310	1,200	<500
	4/5/2005	18.60	12.39	21,000	170	1,100	350	1,300	<500 (<5.0)
MW-7	6/30/2003	21.40	11.71	170	<0.5	2.1	2.0	8.7	<5.0
33.11	7/21/2003	21.44	11.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	21.73	11.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/15/2004	21.57	11.54	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2004	20.84	12.27	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/9/2004	22.68	10.43	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/7/2004	23.27	9.84	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/7/2005	20.60	12.51	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/5/2005	20.22	12.89	<50	<0.5	0.75	<0.5	<0.5	<5.0 (<0.5)
Trip Blank	01/12/01	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/11/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/4/2002	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/2/2003	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0

# CAMBRIA

**Table 1. Groundwater Elevation and Analytical Data**  
Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring / Well ID	Date	Depth to Sample / Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
<i>TOC</i>									

**Notes and Abbreviations:**

TOC = Top of casing elevations in feet above mean sea level

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

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B

MTBE = Methyl tertiary butyl ether by EPA Method 8021B, and by EPA Method 8260 in parenthesis

µg/L = Micrograms per liter

<n = Not detected in sample above n µg/L

ND = Not detected

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.

Sampling is no longer required in well MW-1 per September 17, 1996, ACDEH letter to Douglas Parking.

On July 31, 2003, Virgil Chavez Land Surveying of Vallejo, California surveyed monitoring wells using a benchmark in the top of the curb near the SW return of the NW corner of 34th and Broadway


See laboratory analytical report for the laboratory's TPH chromatogram description notes.

**APPENDIX A**

**Groundwater Monitoring Field Data Sheets**



## WELL GAUGING SHEET

<b>Client:</b> Cambria Environmental Technology						
<b>Site</b> <b>Address:</b> 1721 Webster Street Oakland, CA						
<b>Date:</b> 4/5/2005			<b>Signature:</b> 			
Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	6:35		20.60		26.68	
MW-2	2:45		18.40		25.93	
MW-3	2:50		19.95		26.90	
MW-4	2:35		16.78		29.46	
MW-5	2:30		14.45		24.53	
MW-6	2:55		18.60		25.82	
MW-7	2:40		20.22		28.45	




## WELL SAMPLING FORM

<b>Date:</b>		4/5/2005				
<b>Client:</b>		Cambria Environmental Technology				
<b>Site Address:</b>		1721 Webster Street Oakland, CA				
<b>Well ID:</b>		MW-2				
<b>Well Diameter:</b>		2"				
<b>Purging Device:</b>		Disposable Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		25.93	<b>Fe=</b> mg/L			
<b>Depth to Water:</b>		18.40	<b>ORP=</b> mV			
<b>Water Column Height:</b>		7.53	<b>DO=</b> mg/L			
<b>Volume/ft:</b>		0.16				
<b>1 Casing Volume (gal):</b>		1.20	<b>COMMENTS:</b>			
<b>3 Casing Volumes (gal):</b>		3.61				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>			<b>pH</b>	<b>COND. (microns)</b>
4:45	1.2	24.1			6.98	429
4:50	2.4	24.2			7.03	471
4:55	3.6	24.1	7.02	495		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-2	4/5/2005	5:00	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020
				<b>Signature:</b>		




## WELL SAMPLING FORM

<b>Date:</b>		4/5/2005				
<b>Client:</b>		Cambria Environmental Technology				
<b>Site Address:</b>		1721 Webster Street Oakland, CA				
<b>Well ID:</b>		MW-3				
<b>Well Diameter:</b>		2"				
<b>Purging Device:</b>		Disposable Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		26.90	<b>Fe=</b>	<b>mg/L</b>		
<b>Depth to Water:</b>		19.95	<b>ORP=</b>	<b>mV</b>		
<b>Water Column Height:</b>		6.95	<b>DO=</b>	<b>mg/L</b>		
<b>Volume/ft:</b>		0.16				
<b>1 Casing Volume (gal):</b>		1.11	<b>COMMENTS:</b> Turbid			
<b>3 Casing Volumes (gal):</b>		3.34				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>			<b>pH</b>	<b>COND. (microns)</b>
5:10	1.1	24.1			7.05	790
5:15	2.2	24.3	7.09	815		
5:20	3.3	24.3	7.06	833		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-3	4/5/2005	5:25	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020
				<b>Signature:</b>		



## WELL SAMPLING FORM

<b>Date:</b>		4/5/2005								
<b>Client:</b>		Cambria Environmental Technology								
<b>Site Address:</b>		1721 Webster Street Oakland, CA								
<b>Well ID:</b>		MW-4								
<b>Well Diameter:</b>		2"								
<b>Purging Device:</b>		Disposable Bailer								
<b>Sampling Method:</b>		Disposable Bailer								
<b>Total Well Depth:</b>		29.46	<b>Fe=</b>		<b>mg/L</b>					
<b>Depth to Water:</b>		16.78	<b>ORP=</b>		<b>mV</b>					
<b>Water Column Height:</b>		12.68	<b>DO=</b>		<b>mg/L</b>					
<b>Volume/ft:</b>		0.16								
<b>1 Casing Volume (gal):</b>		2.03	<b>COMMENTS:</b> Turbid							
<b>3 Casing Volumes (gal):</b>		6.09								
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>					<b>pH</b>	<b>COND. (microns)</b>		
3:55	2.0	23.9					7.04	610		
4:00	4.1	23.7					7.02	643		
4:05	6.1	23.8	7.01	639						
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>				
MW-4	4/5/2005	4:10	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020				
				<b>Signature:</b> 						





## WELL SAMPLING FORM

<b>Date:</b>		4/5/2005				
<b>Client:</b>		Cambria Environmental Technology				
<b>Site Address:</b>		1721 Webster Street Oakland, CA				
<b>Well ID:</b>		MW-5				
<b>Well Diameter:</b>		2"				
<b>Purging Device:</b>		Disposable Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		24.53	<b>Fe=</b> <b>mg/L</b>			
<b>Depth to Water:</b>		14.45	<b>ORP=</b> <b>mV</b>			
<b>Water Column Height:</b>		10.08	<b>DO=</b> <b>mg/L</b>			
<b>Volume/ft:</b>		0.16				
<b>1 Casing Volume (gal):</b>		1.61	<b>COMMENTS:</b> Turbid			
<b>3 Casing Volumes (gal):</b>		4.84				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>			<b>pH</b>	<b>COND. (microns)</b>
3:30	1.6	23.6			6.92	520
3:35	3.2	23.4	6.95	575		
3:40	4.8	23.4	6.99	561		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-5	4/5/2005	3:45	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020
				<b>Signature:</b>		




## WELL SAMPLING FORM

<b>Date:</b>		4/5/2005				
<b>Client:</b>		Cambria Environmental Technology				
<b>Site Address:</b>		1721 Webster Street Oakland, CA				
<b>Well ID:</b>		MW-6				
<b>Well Diameter:</b>		2"				
<b>Purging Device:</b>		Disposable Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		25.82	<b>Fe=</b> mg/L			
<b>Depth to Water:</b>		18.60	<b>ORP=</b> mV			
<b>Water Column Height:</b>		7.22	<b>DO=</b> mg/L			
<b>Volume/ft:</b>		0.16				
<b>1 Casing Volume (gal):</b>		1.16	<b>COMMENTS:</b>			
<b>3 Casing Volumes (gal):</b>		3.47				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>			<b>pH</b>	<b>COND. (microns)</b>
5:35	1.2	24.2			6.98	649
5:45	2.3	24.5			7.02	683
5:55	3.5	24.3	7.00	679		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-6	4/5/2005	6:00	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020
				<b>Signature:</b>		



## WELL SAMPLING FORM

<b>Date:</b>		4/5/2005				
<b>Client:</b>		Cambria Environmental Technology				
<b>Site Address:</b>		1721 Webster Street Oakland, CA				
<b>Well ID:</b>		MW-7				
<b>Well Diameter:</b>		2"				
<b>Purging Device:</b>		Disposable Bailer				
<b>Sampling Method:</b>		Disposable Bailer				
<b>Total Well Depth:</b>		28.45	<b>Fe=</b>	<b>mg/L</b>		
<b>Depth to Water:</b>		20.22	<b>ORP=</b>	<b>mV</b>		
<b>Water Column Height:</b>		8.23	<b>DO=</b>	<b>mg/L</b>		
<b>Volume/ft:</b>		0.16				
<b>1 Casing Volume (gal):</b>		1.32	<b>COMMENTS:</b> Very Turbid			
<b>3 Casing Volumes (gal):</b>		3.95				
<b>TIME:</b>	<b>CASING VOLUME (gal)</b>	<b>TEMP (Celsius)</b>			<b>pH</b>	<b>COND. (microns)</b>
4:20	1.3	23.9			6.98	650
4:25	2.6	24.2	7.01	633		
4:30	4.0	24.1	7.02	618		
<b>Sample ID:</b>	<b>Date:</b>	<b>Time</b>	<b>Container Type</b>	<b>Preservative</b>	<b>Analytes</b>	<b>Method</b>
MW-7	4/5/2005	4:35	Voa	HCl	TPHg, BTEX, MTBE	8015, 8020
				<b>Signature:</b>		

**APPENDIX B**

Laboratory Analytical Report



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197; Douglas Parking	Date Sampled: 04/05/05
		Date Received: 04/06/05
	Client Contact: Subbarao Nagulapaty	Date Reported: 04/11/05
	Client P.O.:	Date Completed: 04/11/05

**WorkOrder: 0504082**

April 11, 2005

Dear Subbarao:

Enclosed are:

- 1). the results of **6** analyzed samples from your **#580-0197; 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.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell 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,

Angela Rydelius, Lab Manager



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 Website: www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology  5900 Hollis St, Suite A  Emeryville, CA 94608	Client Project ID: #580-0197; Douglas Parking	Date Sampled: 04/05/05
	Client Contact: Subbarao Nagulapaty	Date Received: 04/06/05
	Client P.O.:	Date Extracted: 04/08/05
		Date Analyzed: 04/08/05

## Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0504082

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	W	34,000,a	ND<500	3700	3600	1200	5300	100	106
002A	MW-3	W	6100,a	ND<45	2.3	2.6	1.3	8.3	1	85
003A	MW-4	W	6900,a	ND<170	27	290	520	660	10	118
004A	MW-5	W	ND	ND	ND	ND	ND	ND	1	95
005A	MW-6	W	21,000,a,i	ND<500	170	1100	350	1300	100	107
006A	MW-7	W	ND,j	ND	ND	0.75	ND	ND	1	98

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell 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 (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

 Angela Rydelius, Lab Manager



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197; Douglas Parking	Date Sampled: 04/05/05
	Client Contact: Subbarao Nagulapaty	Date Received: 04/06/05
	Client P.O.:	Date Extracted: 04/07/05
		Date Analyzed: 04/07/05

### Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0504082

Lab ID	0504082-001B	0504082-002B	0504082-003B	0504082-004B	Reporting Limit for DF =1	
Client ID	MW-2	MW-3	MW-4	MW-5		
Matrix	W	W	W	W		
DF	10	1	1	1	S	W

Compound	Concentration				ug/kg	µg/L
tert-Amyl methyl ether (TAME)	ND<5.0	ND	ND	ND	NA	0.5
t-Butyl alcohol (TBA)	ND<50	ND	ND	ND	NA	5.0
1,2-Dibromoethane (EDB)	ND<5.0	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	11	ND	ND	ND	NA	0.5
Diisopropyl ether (DIPE)	ND<5.0	ND	ND	ND	NA	0.5
Ethanol	ND<500	ND	ND	ND	NA	50
Ethyl tert-butyl ether (ETBE)	ND<5.0	ND	ND	ND	NA	0.5
Methyl-t-butyl ether (MTBE)	ND<5.0	ND	ND	ND	NA	0.5

### Surrogate Recoveries (%)

%SSI:	97	99	96	100	
-------	----	----	----	-----	--

**Comments**

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 Website: www.mcccampbell.com E-mail: main@mcccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197; Douglas Parking	Date Sampled: 04/05/05
	Client Contact: Subbarao Nagulapaty	Date Received: 04/06/05
	Client P.O.:	Date Extracted: 04/07/05
		Date Analyzed: 04/07/05

### Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS\*

Extraction Method: SW5030B

Analytical Method: SW8260B

Work Order: 0504082

Lab ID	0504082-005B	0504082-006B	Reporting Limit for DF = 1	
Client ID	MW-6	MW-7		
Matrix	W	W		
DF	10	1		

Compound	Concentration			ug/kg	µg/L
	tert-Amyl methyl ether (TAME)	ND<5.0	ND		NA
t-Butyl alcohol (TBA)	ND<50	ND		NA	5.0
1,2-Dibromoethane (EDB)	ND<5.0	ND		NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND<5.0	ND		NA	0.5
Diisopropyl ether (DIPE)	ND<5.0	ND		NA	0.5
Ethanol	ND<500	ND		NA	50
Ethyl tert-butyl ether (ETBE)	ND<5.0	ND		NA	0.5
Methyl-t-butyl ether (MTBE)	ND<5.0	ND		NA	0.5

### Surrogate Recoveries (%)

%SS1:	102	107		
Comments	j,i	i		

\* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.





QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0504082

EPA Method: SW8021B/8015Cm		Extraction: SW5030B			BatchID: 15758			Spiked Sample ID: 0504057-002A		
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	93.5	92.9	0.615	95.4	96	0.634	70 - 130	70 - 130
MTBE	ND	10	104	101	3.27	102	101	1.18	70 - 130	70 - 130
Benzene	ND	10	110	111	1.40	104	108	4.05	70 - 130	70 - 130
Toluene	ND	10	105	108	3.02	96.9	103	5.75	70 - 130	70 - 130
Ethylbenzene	ND	10	108	109	0.492	106	106	0	70 - 130	70 - 130
Xylenes	ND	30	95.3	96	0.697	95	95.3	0.350	70 - 130	70 - 130
%SS:	113	10	114	115	1.16	109	110	1.24	70 - 130	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 15758 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504082-001A	4/05/05 5:00 PM	4/08/05	4/08/05 12:12 AM	0504082-002A	4/05/05 5:25 PM	4/08/05	4/08/05 7:34 AM
0504082-003A	4/05/05 4:10 PM	4/08/05	4/08/05 12:45 AM	0504082-004A	4/05/05 3:45 PM	4/08/05	4/08/05 8:07 AM
0504082-005A	4/05/05 6:00 PM	4/08/05	4/08/05 1:18 AM	0504082-006A	4/05/05 4:35 PM	4/08/05	4/08/05 10:16 AM

MS = Matrix Spike, MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0504082

EPA Method: SW8260B		Extraction: SW5030B				BatchID: 15759			Spiked Sample ID: 0504064-001A		
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
tert-Amyl methyl ether (TAME)	ND	10	88.9	89.1	0.210	110	93.7	15.8	70 - 130	70 - 130	
t-Butyl alcohol (TBA)	ND	50	85.8	85	0.938	84.5	81	4.24	70 - 130	70 - 130	
1,2-Dibromoethane (EDB)	ND	10	85	87.3	2.72	98.2	87.5	11.5	70 - 130	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND	10	107	104	2.91	118	109	8.56	70 - 130	70 - 130	
Diisopropyl ether (DIPE)	ND	10	95.2	96.3	1.19	117	107	8.50	70 - 130	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND	10	86.4	88.8	2.82	114	98.1	15.3	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	86.9	89	2.45	112	92.2	19.0	70 - 130	70 - 130	
%SSI:	102	10	97	98	0.829	108	101	6.26	70 - 130	70 - 130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

BATCH 15759 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504082-001B	4/05/05 5:00 PM	4/07/05	4/07/05 4:07 PM	0504082-002B	4/05/05 5:25 PM	4/07/05	4/07/05 5:32 PM
0504082-003B	4/05/05 4:10 PM	4/07/05	4/07/05 6:15 PM	0504082-004B	4/05/05 3:45 PM	4/07/05	4/07/05 6:58 PM
0504082-005B	4/05/05 6:00 PM	4/07/05	4/07/05 4:49 PM	0504082-006B	4/05/05 4:35 PM	4/07/05	4/07/05 7:41 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.  
 % Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).  
 MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.  
 N/A = not enough sample to perform matrix spike and matrix spike duplicate.  
 NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.  
 Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

**McC Campbell Analytical, Inc.**



110 Second Avenue South, #D7  
 Pacheco, CA 94553-5560  
 (925) 798-1620

**CHAIN-OF-CUSTODY RECORD**

WorkOrder: 0504082

ClientID: CETE

**Report to:**

Subbarao Nagulapaty  
 Cambria Env. Technology  
 5900 Hollis St, Suite A  
 Emeryville, CA 94608

TEL: (510) 420-0700  
 FAX: (510) 420-9170  
 ProjectNo: #580-0197; Douglas Parking  
 PO:

**Bill to:**

Accounts Payable  
 Cambria Env. Technology  
 5900 Hollis St, Ste. A  
 Emeryville, CA 94608

Requested TAT:

5 days

*Date Received:* 04/06/2005

*Date Printed:* 04/06/2005

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0504082-001	MW-2	Water	4/5/05 5:00:00 PM	<input type="checkbox"/>	B	A	A												
0504082-002	MW-3	Water	4/5/05 5:25:00 PM	<input type="checkbox"/>	B	A													
0504082-003	MW-4	Water	4/5/05 4:10:00 PM	<input type="checkbox"/>	B	A													
0504082-004	MW-5	Water	4/5/05 3:45:00 PM	<input type="checkbox"/>	B	A													
0504082-005	MW-6	Water	4/5/05 6:00:00 PM	<input type="checkbox"/>	B	A													
0504082-006	MW-7	Water	4/5/05 4:35:00 PM	<input type="checkbox"/>	B	A													

**Test Legend:**

1	9-OXYS_W	2	G-MBTX_W	3	PREF REPORT	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

**Comments:**

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

celte

0504082

### McCAMPBELL ANALYTICAL, INC.

110 2<sup>nd</sup> AVENUE SOUTH, #D7  
PACHECO, CA 94553-5560

Website: [www.mccampbell.com](http://www.mccampbell.com) Email: [main@mccampbell.com](mailto:main@mccampbell.com)  
Telephone: (925) 798-1620 Fax: (925) 798-1622

### CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH  24 HR  48 HR  72 HR  5 DAY

EDF Required?  Yes

Report To: Subbarao Nagulapaty Bill To: Cambria Environmental Tech. Analysis Request Other Comment

Company: Cambria Environmental Tech.

5900 Hollis St. Ste. A

Oakland, CA 94608 E-Mail: [snagulapaty@cambria-env.com](mailto:snagulapaty@cambria-env.com)

Tele: (510) 420-3361 Fax: (510) 420-9170

Project #: 580-0197 Project Name: Douglas Parking

Project Location: 1721 Webster Street Oakland, CA

Sampler Signature: Muskan Environmental Sampling *[Signature]*

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				MTBE / BTEX & TPH as Gas (602 / 8021 + 8016)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel (8015) with silica gel clean up	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HYOCs)	EPA 505 / 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic CI Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	Oxygenates (MTBE, ETBE, TAME, DIPE, FBA, 1,2 - DCA, 1,2 - EDB, Ethanol) by 8260B	TPHg / BTEX by 8015 / 8021	BT(802)	Filter Samples for Metal analysis: Yes / No
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO <sub>3</sub>	Other															

+ MW-2		4/5/05	5:00 am	3	voa	X					X	X		X																					
+ MW-3		4/5/05	5:25 am	3	voa	X					X	X		X																					
+ MW-4		4/5/05	4:10 am	3	voa	X					X	X		X																					
+ MW-5		4/5/05	3:45 am	3	voa	X					X	X		X																					
+10 MW-6		4/5/05	6:00 am	3	voas	X					X	X		X																					
+10 MW-7		4/5/05	4:35 am	3	voas	X					X	X		X																					
✓ TB		4/5/05		2	voas	X					X	X		X																					HOLD

Relinquished By: Sanjiv Gill	Date: 4/5/05	Time: 10:00 am	Received By: Secure location	COMMENTS: ICE? <input checked="" type="checkbox"/> GOOD CONDITION <input checked="" type="checkbox"/> HEAD SPACE ABSENT <input checked="" type="checkbox"/> DECHLORINATED IN LAB <input checked="" type="checkbox"/> APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> PRESERVED IN LAB <input checked="" type="checkbox"/>
Relinquished By: <i>[Signature]</i>	Date: 4/6/05	Time: 4pm	Received By: <i>[Signature]</i>	
Relinquished By:	Date:	Time:	Received By:	

VOAS | O&G | METALS | OTHER  
PRESERVATION | pH<2

## **APPENDIX C**

### **GeoTracker Electronic Delivery Confirmations**

## Electronic Submittal Information

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### UPLOADING A GEO\_WELL FILE

Processing is complete. No errors were found!  
Your file has been successfully submitted!

**Submittal Title:** 2nd Qtr 2005 GW Depth Data for 1721 Webster St,  
Oakland

**Submittal Date/Time:** 5/3/2005 11:03:40 AM

**Confirmation  
Number:** 3521839737

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## Electronic Submittal Information

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Your EDF file has been successfully uploaded!

**Confirmation Number:** 2347773015  
**Date/Time of Submittal:** 5/3/2005 4:42:14 PM  
**Facility Global ID:** T0600100140  
**Facility Name:** DOUGLAS PARKING COMPANY  
**Submittal Title:** 2nd Qtr 2005 GW analytical data  
**Submittal Type:** GW Monitoring Report

[Click here to view the detections report for this upload.](#)

<b>DOUGLAS PARKING COMPANY</b> 1721 WEBSTER ST OAKLAND, CA 94612	<b>Regional Board - Case #: 01-0151</b> SAN FRANCISCO BAY RWQCB (REGION 2) - (BG) <b>Local Agency (lead agency) - Case #: 4070</b> ALAMEDA COUNTY LOP - (AG)
--	---

CONF #	TITLE	QUARTER
2347773015	2nd Qtr 2005 GW analytical data	Q2 2005
<b>SUBMITTED BY</b> Matt Meyers	<b>SUBMIT DATE</b> 5/3/2005	<b>STATUS</b> PENDING REVIEW

**SAMPLE DETECTIONS REPORT**

# FIELD POINTS SAMPLED	6
# FIELD POINTS WITH DETECTIONS	5
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	4
SAMPLE MATRIX TYPES	WATER

**METHOD QA/QC REPORT**

METHODS USED	SW8021F,SW8260B
TESTED FOR REQUIRED ANALYTES?	Y
LAB NOTE DATA QUALIFIERS	N

**QA/QC FOR 8021/8260 SERIES SAMPLES**

TECHNICAL HOLDING TIME VIOLATIONS	0
METHOD HOLDING TIME VIOLATIONS	0
LAB BLANK DETECTIONS ABOVE REPORTING DETECTION LIMIT	0
LAB BLANK DETECTIONS	0
DO ALL BATCHES WITH THE 8021/8260 SERIES INCLUDE THE FOLLOWING?	
- LAB METHOD BLANK	Y
- MATRIX SPIKE	Y
- MATRIX SPIKE DUPLICATE	Y
- BLANK SPIKE	Y
- SURROGATE SPIKE - NON-STANDARD SURROGATE USED	Y

**WATER SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	Y
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	Y
SURROGATE SPIKES % RECOVERY BETWEEN 85-115%	N
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	Y

**SOIL SAMPLES FOR 8021/8260 SERIES**

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a

BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%		n/a
<b>FIELD QC SAMPLES</b>		
<u>SAMPLE</u>	<u>COLLECTED</u>	<u>DETECTIONS &gt; REPD</u>
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

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