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Alameda County
Environmental Health



September 25, 2007

VIA ALAMEDA COUNTY FTP SITE

Mr. Donna Drogos
Alameda County Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

Re: **Groundwater Monitoring Report – Third Quarter 2007**

Douglas Parking Company
1721 Webster Street
Oakland, California
ACEH File No. 129

Dear Ms. Drogos:

On behalf of the Douglas Parking Company, Pangea Environmental Services, Inc. has prepared this *Groundwater Monitoring Report – Third Quarter 2007* for the above-referenced site. The report describes groundwater monitoring, sampling, and other site activities.

If you have any questions, please call me at (510) 435-8664.

Sincerely,

Pangea Environmental Services, Inc.

A handwritten signature in blue ink that reads "Bob Clark-Riddell". The signature is written in a cursive, flowing style.

Bob Clark-Riddell, P.E.
Principal Engineer

Attachment: *Groundwater Monitoring Report – Third Quarter 2007*

cc: Mr. Lee Douglas, Douglas Parking Company, 1721 Webster Street, Oakland, California 94612 (2 copies)
SWRCB Geotracker Database (electronic copy)

PANGEA Environmental Services, Inc.



GROUNDWATER MONITORING REPORT – THIRD QUARTER 2007

**Douglas Parking Company
1721 Webster Street
Oakland, California
File No. 4070**

September 25, 2007

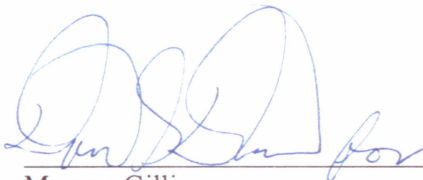
Prepared for:

Mr. Lee Douglas
1721 Webster Street
Oakland, California 94612

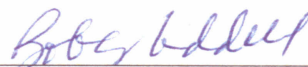
Prepared by:

Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200
Oakland, California 94612

Written by:



Morgan Gillies
Project Manager


Bob Clark-Riddell, P.E.
Principal Engineer

PANGEA Environmental Services, Inc.

INTRODUCTION

On behalf of the Douglas Parking Company, Pangea Environmental Services, Inc. (Pangea), performed groundwater monitoring and sampling during this quarter at the subject site (Figure 1). The purpose of the monitoring and sampling is to evaluate dissolved contaminant concentrations and the site groundwater flow direction. Current groundwater analytical results and elevation data are shown on Figure 2. Current and historical data are summarized on Table 1.

SITE BACKGROUND

The site is currently being utilized as a parking garage, and is located at 1721 Webster Street between 17th and 19th Streets in downtown Oakland, California, approximately five miles east of San Francisco Bay and half a mile west of Lake Merritt (Figure 1). The site is relatively flat with an elevation of approximately 30 feet (ft) above mean sea level.

Several former UST sites are located close to the site, including: Prentiss Properties to the northeast at 1750 Webster Street; a former gas station to the east at 1700 Webster, and a former Chevron service station approximately 400 feet to the southwest, on the corner of 17th Street and Harrison Street.

On August 3 and 6, 1992, Parker Environmental Services removed one 1,000-gallon and two 500-gallon gasoline underground storage tanks (USTs) from the site. Up to 1,500 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and up to 12 mg/kg benzene were detected in the soil samples collected from the UST excavation.

Several investigations have been completed at the site. On July 8 and September 8, 1994, Gen Tech/Piers Environmental, Inc. (Gen Tech) of San Jose, California drilled six exploratory borings and installed three groundwater monitoring wells (MW-1 through MW-3). In February and May 1996, Cambria Environmental Technology (Cambria) of Emeryville, California advanced seven geoprobe soil borings and installed two groundwater monitoring wells (MW-4 and MW-5). On June 27, 2003 Cambria installed two additional offsite monitoring wells (MW-6 and MW-7).

Limited site remediation has been conducted at the site. In January 1998, Cambria installed ORC socks in well MW-2 to enhance the natural attenuation of dissolved-phase hydrocarbons. Dissolved oxygen (DO) concentrations *temporarily* increased in well MW-2 following the ORC sock installation. In February and March 1999, a total of 120 gallons of 7.5% hydrogen peroxide solution was added into monitoring wells MW-2 and MW-3 to oxidize hydrocarbons and also increase DO levels to enhance biodegradation of

dissolved-phase hydrocarbons. The hydrogen peroxide *temporarily* increased groundwater DO levels, but hydrocarbon concentrations remained at elevated levels.

On March 4, 2003, Cambria installed a co-axial air sparging/soil vapor extraction well (SV-1/AS-1) and two angled air sparging wells (AS-2 and AS-3) to approximately 30 ft bgs (Figure 3). The wells were installed to facilitate feasibility testing and future site remediation.

GROUNDWATER MONITORING AND SAMPLING

On July 6, 2007, Pangea conducted groundwater monitoring and sampling at the site. Site monitoring wells were gauged for depth to water. Groundwater samples were collected from monitoring wells MW-2 through MW-7. Monitoring well MW-1 is sampled annually during the first quarter of the year.

Before well purging, the dissolved oxygen (DO) concentration was measured in each well. DO was measured by lowering a downwell sensor to the approximate middle of the water column, and allowing the reading to stabilize during gentle height adjustment. Prior to sample collection approximately three casing volumes of water were purged using disposable bailers, an electric submersible pump or new polyethylene tubing with a check valve. During well purging field technicians measured pH, temperature and conductivity. A groundwater sample was collected from each well with a disposable bailer and decanted into the appropriate containers supplied by the analytical laboratory. Groundwater samples were labeled, placed in protective plastic bags, and stored on crushed ice at or below 4° C. All samples were transported under chain-of-custody to the State-certified analytical laboratory. Purge water was stored onsite in DOT-approved 55-gallon drums. Field data sheets are presented as Appendix A.

MONITORING RESULTS

Groundwater elevation and analytical data are described below and summarized on Table 1 and Figure 2. Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified Environmental Protection Agency (EPA) Method SW8015C; benzene, toluene, ethylbenzene, xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) using EPA Method SW8021B by McCampbell Analytical, Inc. of Pittsburg, California, a State-certified laboratory. The laboratory analytical report is included as Appendix B. Dissolved oxygen concentrations in groundwater monitoring wells ranged from 0.19 mg/L (MW-5) to 0.66 mg/L (MW-3).

Groundwater Flow Direction

Based on depth-to-water measurements collected on July 6, 2007, groundwater beneath the site flowed towards the northeast (Figure 2). The groundwater depth measurements and inferred flow direction this quarter are consistent with historical site conditions. Groundwater depths at the site have historically ranged from approximately 13 to 23 ft bgs, equivalent to a groundwater elevation range from 5 to 13 feet above mean sea level over nine years of monitoring (Table 1). The historical inferred flow direction has consistently been northeastwards.

Hydrocarbon and MTBE Distribution in Groundwater

The maximum TPHg (30,000 µg/L) and benzene (3,200 µg/L) concentrations this quarter were detected in well MW-2. The distribution of TPHg and benzene in groundwater at the site is shown on Figure 2. No hydrocarbons were detected in perimeter wells MW-5 and MW-7. All detected hydrocarbon concentrations in site wells this quarter were within historical ranges. In general, TPHg and BTEX concentrations in site monitoring wells exhibit a stable long-term trend.

MTBE was not detected above reporting limits in any of the sampled wells and is not a compound of concern at this site.

OTHER SITE ACTIVITIES

Groundwater Monitoring

Pangea will continue quarterly groundwater monitoring and sampling at the site in accordance with the approved sampling frequency. Well MW-1 will be sampled annually during the first quarter of each year to help control costs. All other site monitoring wells will be gauged for depth to water and groundwater samples will be analyzed for TPHg, BTEX and MTBE by EPA Method 8015Cm/8021B.

Interim Remedial Action

Pangea is currently coordinating final electrical connections and inspections to the approved soil vapor and air sparging system installed during this quarter. Pangea anticipates performing a startup test within October. A *Startup Test Report* will be submitted to the Bay Area Air Quality Management District (BAAQMD) upon completion of the test.

ELECTRONIC REPORTING

This report will be submitted to the Alameda County Environmental Health via upload to the County's ftp site. Applicable data, maps, and reports for groundwater monitoring and other activities will be uploaded to the State Water Resource Control Board's Geotracker database. As requested, report hard copies will no longer be provided to local agencies.

ATTACHMENTS

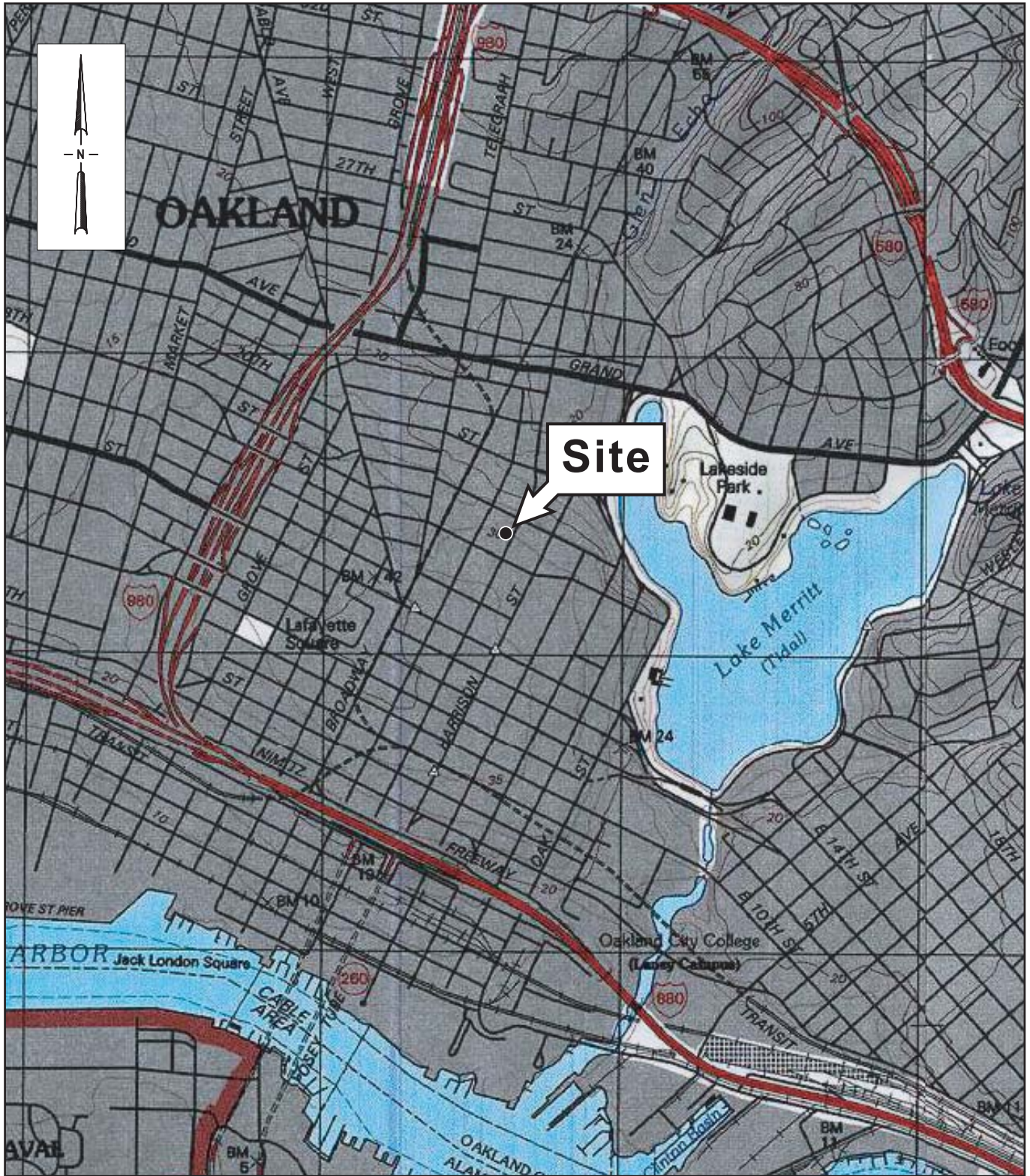
Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevations and Hydrocarbon Concentration Map

Table 1 – Groundwater Elevation and Analytical Data

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – Laboratory Analytical Report.



SOURCE: TOPOI MAPS



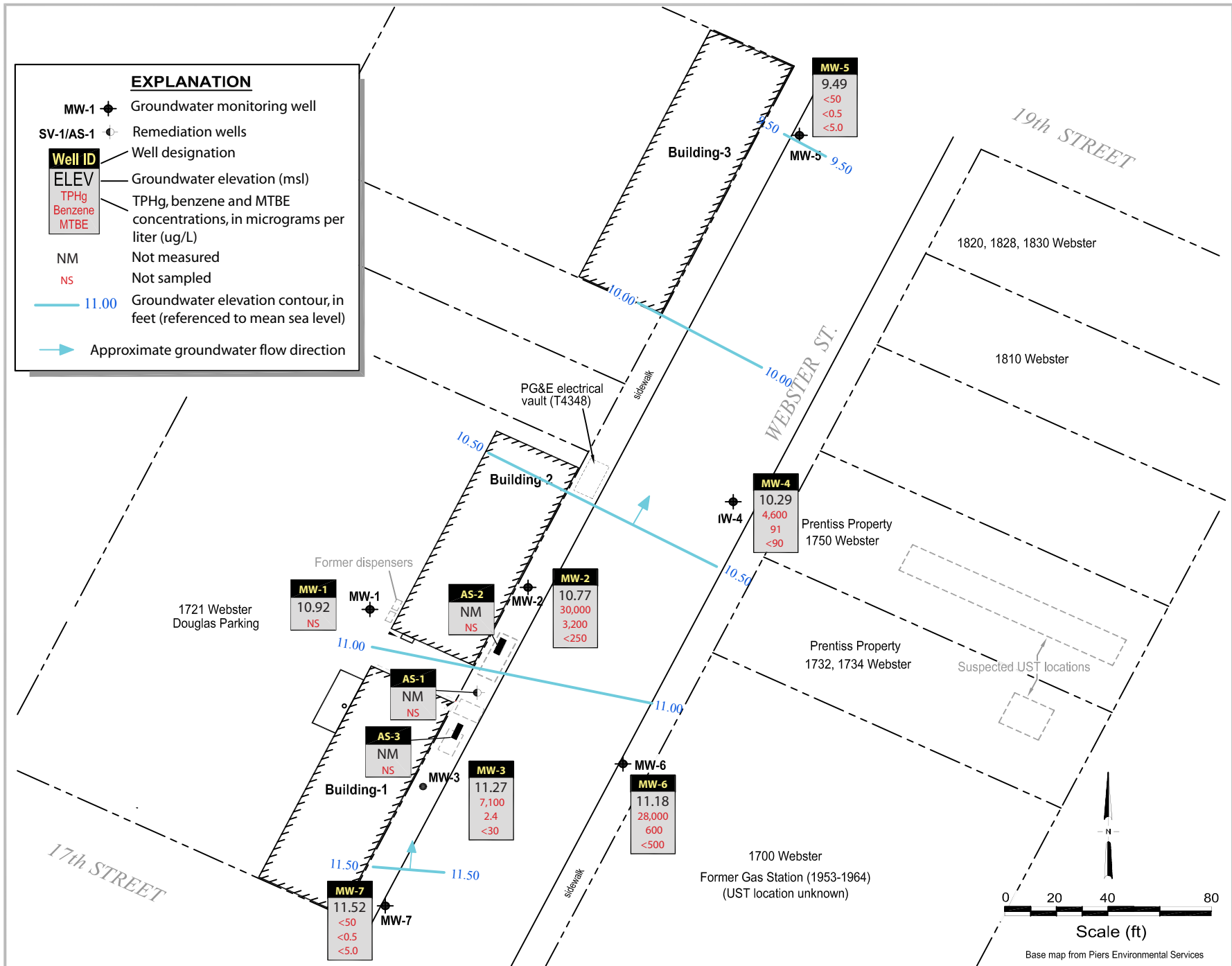
SCALE : 1" = 1/4 MILE

Figure 1

Douglas Parking Facility
 1721 Webster Street
 Oakland, California



Vicinity Map



Douglas Parking
1721 Webster Street
Oakland, California



**Groundwater Elevations and
Hydrocarbon Concentration Map**

July 6, 2007

FIGURE

PANGEA

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

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	←----- (µg/L) -----→					
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
Groundwater Monitoring Well Samples									
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	-	-	-	-	-	-
	7/6/2005	20.66	12.09	-	-	-	-	-	-
	10/10/2005	21.16	11.59	-	-	-	-	-	-
	1/26/2006	20.73	12.02	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/10/2006	20.05	12.70	-	-	-	-	-	-
	7/6/2006	20.90	11.85	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/26/2006	21.80	10.95	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/19/2007	22.02	10.73	--	--	--	--	--	--
	4/17/2007	22.13	10.62	--	--	--	--	--	--
	7/6/2007	21.83	10.92	--	--	--	--	--	--
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	-

PANGEA

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

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	<div style="display: flex; align-items: center; justify-content: center;"> ← → </div>					
				TPHg	Benzene	Toluene	Ethylbenzene (µg/L)	Xylenes	MTBE
MW-2	2/28/1997	18.43	8.97	39,000	4,700	9,600	950	4,200	ND
(cont'd)	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
	2/17/1999	18.94	8.46	-	-	-	-	-	-
	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)
	7/6/2005	18.48	11.92	24,000	1,600	1,700	570	2,800	<500
	10/10/2005	19.00	11.40	25,000	1,700	2,100	710	3,200	<500
	1/26/2006	18.58	11.82	60,000	4,600	7,200	1,600	6,900	<1,000
	4/10/2006	17.84	12.56	56,000	4,900	7,500	1,200	7,400	<500
	7/6/2006	18.76	11.64	28,000	1,900	1,700	720	2,900	<500
	10/26/2006	19.60	10.80	43,000	2,800	2,500	1,700	7,600	<500
	1/19/2007	19.84	10.56	31,000	2,700	2,400	1,400	5,800	<150
	4/17/2007	19.90	10.50	37,000	3,200	2,900	1,600	6,400	<400
	7/6/2007	19.63	10.77	30,000	3,200	2,000	1,500	5,200	<250
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	-	-	-	-	-	-

PANGEA

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

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	Groundwater Analytical Data (µg/L)					
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-3 (cont'd)	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
	1/12/2003	21.13	8.43	9,000	9.5	5.1	8.5	46	<90
	4/21/2003	20.63	8.93	10,000	<5.0	<5.0	8.5	32	<50
	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)	
7/6/2005	19.93	12.63	4,500	<1.0	1.5	1.0	8.3	<10	
10/10/2005	20.45	12.11	3,800	0.73	<0.5	0.98	5.7	<15	
1/26/2006	20.05	12.51	5,100	<0.5	1.1	<0.5	6.6	<15	
4/10/2006	19.39	13.17	1,900	0.55	1.6	0.51	4.1	<10	
7/6/2006	20.25	12.31	5,600	<1.0	2.3	<1.0	6.4	<20	
10/26/2006	21.07	11.49	8,000	2.5	1.0	2.3	12	<35	
1/19/2007	21.38	11.18	77,000	19	40	9.5	130	<300	
4/17/2007	21.45	11.11	7,400	2.7	6.6	1.1	12	<40	
	7/6/2007	21.29	11.27	7,100	2.4	5.6	0.85	10	<30
MW-4 25.29	5/10/1996	16.98	8.31	14,000	ND	1,200	720	3,100	-
	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

PANGEA

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

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-4	10/3/2000	18.00	7.29	14,000	42	820	730	2,000	<50
(cont'd)	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)
	7/6/2005	16.98	11.31	5,600	<5.0	130	470	480	<50
	10/10/2005	17.59	10.70	6,300	23	78	530	430	<50
	1/26/2006	17.08	11.21	5,600	41	68	400	290	<120
	4/10/2006	16.27	12.02	2,900	39	32	200	140	<60
	7/6/2006	17.20	11.09	5,400	65	59	340	150	<120
	10/26/2006	18.06	10.23	7,200	72	46	460	200	<150
	1/19/2007	18.29	10.00	7,100	140	35	520	150	<200
	4/17/2007	18.30	9.99	4,900	90	32	290	89	<110
	7/6/2007	18.00	10.29	4,600	91	30	210	55	<90
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
	10/5/1999	14.79	7.18	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	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

PANGEA

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

Boring / Well ID TOC	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)	←----- (µg/L) -----→					
				TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
AS-1	7/6/2006	19.53	--	18,000	2,700	570	700	1,900	<500
	10/26/2006	20.33	--	15,000	1,900	340	360	1,400	<250
	1/19/2007	20.64	--	5,700	1,100	110	88	630	<50
	1/19/2007	20.64	--	5,700	1,100	110	88	630	<50
	4/17/2007	20.71	--	--	--	--	--	--	--
	7/16/2007	--	--	--	--	--	--	--	--
AS-2	7/6/2006	22.26	--	2,100	6.1	<0.5	33	200	<20
	10/26/2006	23.25	--	280	1.1	<0.5	<0.5	6.0	<15
	1/19/2007	23.61	--	2,100	2.3	<0.5	96	310	<35
	4/17/2007	23.70	--	--	--	--	--	--	--
	7/16/2007	--	--	--	--	--	--	--	--
AS-3	7/6/2006	21.77	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/26/2006	22.66	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/19/2007	22.97	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/17/2007	23.06	--	--	--	--	--	--	--
	7/16/2007	--	--	--	--	--	--	--	--
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

Notes and Abbreviations:

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

ft amsl = Measured in feet above mean sea level

µg/L = Micrograms per liter

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

BTEX = 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

<0.5 = Concentration not detected above specific laboratory reporting limit

-- = Not analyzed, not sampled, or not applicable

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.

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.

APPENDIX A

Groundwater Monitoring Field Data Sheets

Well Gauging Data Sheet

Project Task #: 1135.001 211			Project Name: Douglas Parking				
Address: 1721 Broadway, Oakland, CA						Date: 7/06/07	
Name: Sanjiv Gill			Signature: 				
Well ID	Well Size (in.)	Time	Depth to Immiscible Liquid (ft)	Thickness of Immiscible Liquid (ft)	Depth to Water (ft)	Total Depth (ft)	Measuring Point
MW-1	2"	6:15			21.83	26.65	TOC
MW-2		2:57			19.63	25.95	
MW-3		3:00 3:00			21.29	26.90	
MW-4		2:50			18.00	29.42	
MW-5		2:45			15.50	24.50	
MW-6		2:54			19.81	25.79	
MW-7	X	2:40			21.59	28.46	X

Comments:

MONITORING FIELD DATA SHEET

Well ID: MW-2

Project.Task #: 1135.001 211 Project Name: Douglas Parking

Address: 1721 Webster Street, Oakland, CA

Date: 7/06/07 Weather: Clear

Well Diameter: 2" Volume/ft.

1" = 0.04	3" = 0.37	6" = 1.47
2" = 0.16	4" = 0.65	radius ² = 0.163

Total Depth (TD): 25.95 Depth to Product:

Depth to Water (DTW): 19.63 Product Thickness:

Water Column Height: 6.32 1 Casing Volume: 1.01 gallons

Reference Point: TOC 3 Casing Volumes: 3.03 gallons


Purging Device: Disposable Bailer, 3" PVC Bailer, Check Valve Tubing

Sampling Device: Disposable Bailer

Time	Temp (°C)	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
<u>5:05</u>	<u>16.9</u>	<u>7.10</u>	<u>518</u>				<u>1</u>	
<u>5:08</u>	<u>17.1</u>	<u>7.14</u>	<u>538</u>				<u>2</u>	
<u>5:10</u>	<u>17.1</u>	<u>7.11</u>	<u>552</u>				<u>3</u>	

Comments: Oakton DO meter pre purge DO = 0.25 mg/l
post purge DO = mg/l

turbid, odor


Sample ID: <u>MW-2</u>	Sample Time: <u>5:05</u>
Laboratory: McCampbell Analytical, INC.	Sample Date: 7/06/07
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8026	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-3

Project Task #: 1135.001 211		Project Name: Douglas Parking						
Address: 1721 Webster Street, Oakland, CA								
Date: 7/06/07		Weather: Clear						
Well Diameter: 2"		Volume/ft. 1" = 0.04 3" = 0.37 6" = 1.47 2" = 0.16 4" = 0.65 radius = 0.163						
Total Depth (TD): 26.90		Depth to Product:						
Depth to Water (DTW): 21.29		Product Thickness:						
Water Column Height: 5.61		1 Casing Volume: 0.89 gallons						
Reference Point: TOC		3 Casing Volumes: 2.69 gallons						
Purging Device: Disposable Bailer, 3" PVC Bailer, Check Valve Tubing								
Sampling Device: Disposable Bailer								
Time	Temp (°C)	pH	Cond (µs)	NTU	DO (mg/L)	ORP (mV)	Vol (gal)	DTW
5:25	16.9	7.14	690				1.5	
5:27	16.7	7.20	710				2	
5:30	16.5	7.26	714				2.5	

Comments: Oakton DO meter pre purge DO = 0.66 mg/l
post purge DO = mg/l

Sample ID: MW-3	Sample Time: 5:35
Laboratory: McCampbell Analytical, INC.	Sample Date: 7/06/07
Containers/Preservative: Voa/HCl	
Analyzed for: 8015, 8026	
Sampler Name: Sanjiv Gill	Signature: 


MONITORING FIELD DATA SHEET

Well ID: MW-4

Project Task #: 1135.001 211		Project Name: Douglas Parking							
Address: 1721 Webster Street, Oakland, CA									
Date: 7/06/07		Weather: <u>Clear</u>							
Well Diameter: <u>2"</u>		Volume/ft. <table border="1"> <tr> <td>1" = 0.04</td> <td>3" = 0.37</td> <td>6" = 1.47</td> </tr> <tr> <td>2" = 0.16</td> <td>4" = 0.65</td> <td>radius² = 0.163</td> </tr> </table>		1" = 0.04	3" = 0.37	6" = 1.47	2" = 0.16	4" = 0.65	radius ² = 0.163
1" = 0.04	3" = 0.37	6" = 1.47							
2" = 0.16	4" = 0.65	radius ² = 0.163							
Total Depth (TD): <u>29.42</u>		Depth to Product:							
Depth to Water (DTW): <u>18.00</u>		Product Thickness:							
Water Column Height: <u>11.42</u>		1 Casing Volume: <u>1.82</u> gallons							
Reference Point: TOC		3 Casing Volumes: <u>5.48</u> gallons							
Purging Device: <u>Disposable Bailer</u> , 3" PVC Bailer, Check Valve Tubing									
Sampling Device: Disposable Bailer									
Time	Temp @	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW	
<u>4:20</u>	<u>17.9</u>	<u>7.05</u>	<u>479</u>				<u>2</u>		
<u>4:25</u>	<u>17.6</u>	<u>6.99</u>	<u>455</u>				<u>4</u>		
<u>4:30</u>	<u>17.5</u>	<u>7.13</u>	<u>462</u>				<u>5.5</u>		

Comments: Oakton DO meter pre purge DO = 0.59 mg/l
 post purge DO = mg/l

odor

Sample ID: <u>MW-4</u>	Sample Time: <u>4:35</u>
Laboratory: <u>McCampbell Analytical, INC.</u>	Sample Date: <u>7/06/07</u>
Containers/Preservative: <u>Voal/HCl</u>	
Analyzed for: <u>8015, 8026</u>	
Sampler Name: <u>Sanjiv Gill</u>	Signature: 



MONITORING FIELD DATA SHEET

Well ID: MW-5

Project.Task #: 1135.001 211 Project Name: Douglas Parking

Address: 1721 Webster Street, Oakland, CA

Date: 7/06/07

Weather: Clear

Well Diameter: 2"

Volume/ft.	1" = 0.04	3" = 0.37	6" = 1.47
	2" = 0.16	4" = 0.65	radius = 0.163

Total Depth (TD): 24.50

Depth to Product:

Depth to Water (DTW): 15.50

Product Thickness:

Water Column Height: 9.00

1 Casing Volume: 1.44 gallons

Reference Point: TOC

3 Casing Volumes: 4.32 gallons

Purging Device: Disposable Bailer, 3" PVC Bailer, Check Valve Tubing

Sampling Device: Disposable Bailer

Time	Temp (°)	pH	Cond (µs)	NTU	DO (mg/L)	ORP (mV)	Vol (gal)	DTW
<u>3:50</u>	<u>17.6</u>	<u>7.15</u>	<u>671</u>				<u>1.5</u>	
<u>3:55</u>	<u>17.6</u>	<u>7.12</u>	<u>705</u>				<u>3</u>	
<u>4:00</u>	<u>17.6</u>	<u>7.17</u>	<u>720</u>				<u>4</u>	

Comments: Oakton DO meter pre purge DO = 0.19 mg/l
post purge DO = mg/l
very turbid, silty


Sample ID: <u>MW-5</u>	Sample Time: <u>4:05</u>
Laboratory: <u>McCampbell Analytical, INC.</u>	Sample Date: <u>7/06/07</u>
Containers/Preservative: <u>VOA/HCl</u>	
Analyzed for: <u>8015, 8026</u>	
Sampler Name: <u>Sanjiv Gill</u>	Signature:

MONITORING FIELD DATA SHEET

Well ID: MW-6

Project Task #: 1135.001 211		Project Name: Douglas Parking						
Address: 1721 Webster Street, Oakland, CA								
Date: 7/06/07		Weather: <u>Clear</u>						
Well Diameter: <u>2"</u>	Volume/ft.	1" = 0.04 2" = 0.16	3" = 0.37 4" = 0.65 radius = 0.163					
Total Depth (TD): <u>25.79</u>	Depth to Product:							
Depth to Water (DTW): <u>19.81</u>	Product Thickness:							
Water Column Height: <u>5.98</u>	1 Casing Volume: <u>0.95</u>		gallons					
Reference Point: TOC	3 Casing Volumes: <u>2.87</u>		gallons					
Purging Device: <u>Disposable Bailer</u> , 3" PVC Bailer, Check Valve Tubing								
Sampling Device: Disposable Bailer								
Time	Temp (°C)	pH	Cond (µs)	NTU	DO (mg/L)	ORP (mV)	Vol (gal)	DTW
4:40	16.8	6.93	658				1	
4:43	17.3	6.99	642				2	
4:45	17.4	6.97	647				3	

Comments: Oakton DO meter pre purge DO = 0.32 mg/l
 post purge DO = mg/l
very turbid, silty, odor


Sample ID: <u>MW-6</u>	Sample Time: <u>4:50</u>
Laboratory: McCampbell Analytical, INC.	Sample Date: 7/06/07
Containers/Preservative: <u>Voal/HCl</u>	
Analyzed for: 8015, 8026	
Sampler Name: Sanjiv Gill	Signature: 

MONITORING FIELD DATA SHEET

Well ID: MW-7

Project.Task #: 1135.001 211		Project Name: Douglas Parking						
Address: 1721 Webster Street, Oakland, CA								
Date: 7/06/07		Weather: <u>Clear</u>						
Well Diameter: <u>2"</u>		Volume/ft. <u>1" = 0.04</u> <u>3" = 0.37</u> <u>6" = 1.47</u> <u>2" = 0.16</u> <u>4" = 0.65</u> <u>radius² * 0.163</u>						
Total Depth (TD): <u>28.46</u>		Depth to Product:						
Depth to Water (DTW): <u>21.59</u>		Product Thickness:						
Water Column Height: <u>6.87</u>		1 Casing Volume: <u>1.09</u> gallons						
Reference Point: TOC		3 Casing Volumes: <u>3.27</u> gallons						
Purging Device: <u>Disposable Bailer, 8" PVC Bailer, Check Valve Tubing</u>								
Sampling Device: <u>Disposable Bailer</u>								
Time	Temp (°C)	pH	Cond (µs)	NTU	DO(mg/L)	ORP (mV)	Vol(gal)	DTW
<u>3:20</u>	<u>17.5</u>	<u>7.03</u>	<u>561</u>				<u>1</u>	
<u>3:25</u>	<u>17.7</u>	<u>7.07</u>	<u>540</u>				<u>2</u>	
<u>3:30</u>	<u>17.5</u>	<u>7.12</u>	<u>548</u>				<u>3</u>	

Comments: Oakton DO meter pre purge DO = 0.31 mg/l
 post purge DO = mg/l
very turbid, silty

Sample ID: <u>MW-7</u>	Sample Time: <u>3:35</u>
Laboratory: <u>McC Campbell Analytical, INC.</u>	Sample Date: <u>7/06/07</u>
Containers/Preservative: <u>Voal/HCl</u>	
Analyzed for: <u>8015, 8026</u>	
Sampler Name: <u>Sanjiv Gill</u>	Signature: 

APPENDIX B

Laboratory Analytical Report



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1135.001; Douglas Parking	Date Sampled: 07/06/07
		Date Received: 07/06/07
	Client Contact: Bob Clark-Riddell	Date Reported: 07/11/07
	Client P.O.:	Date Completed: 07/11/07

WorkOrder: 0707095

July 11, 2007

Dear Bob:

Enclosed are:

- 1). the results of **6** analyzed samples from your **#1135.001; 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.

Best regards,

Angela Rydelius, Lab Manager

0707095

McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Website: www.mccampbell.com Email: 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 No

Report To: Bob Clark-Riddel Bill To: Pangea Environmental
Company: Pangea Environmental Services Inc.
1710 Franklin Street Suite 200
Oakland, CA 94612 E-Mail: bcr@pangeaenv.com
Tele: 510-836-3702 Fax: 510-836-3709
Project #: 1135.001 Project Name: *1721 Webster St. Oakland, CA (Dangle's Building)*
Project Location: *1721 Webster Street, Oakland, CA*
Sampler Signature: Muskan Environmental Sampling

Analysis Request										Other	Comments		
MTBE / BTEX & TPH as Gas (802 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	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)	Fuel Additives (MTBE, ETBE, TAME, DIFE, TBA, 1,2 - DCA, 1,2 - EDB, ethanol) by 8260B If MTBE is detected by 8021 confirm by 8260B		Filter Samples for Metals analysis: Yes / No

+
+
+
+
+2
+

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
MW-2	*	7-6-07	5:15	3	NOG	X						X	X	X				
MW-3			5:35															
MW-4			4:35															
MW-5			4:05															
MW-6			4:50															
MW-7		X	3:35	X	X	X						X	X	X				

Relinquished By: *[Signature]* Date: 7-6-07 Time: 8:17
Received By: *[Signature]*

ICE/# *13.4*
GOOD CONDITION APPROPRIATE CONTAINERS
HEAD SPACE ABSENT PRESERVED IN LAB
DECHLORINATED IN LAB
VOAS O&G METALS OTHER
PRESERVATION

McC Campbell Analytical, Inc.



1534 Willow Pass Rd
 Pittsburg, CA 94565-1701
 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0707095

ClientID: PEO

EDF Excel Fax Email HardCopy ThirdParty

Report to:		Bill to:	Requested TAT: 5 days
Bob Clark-Riddell	Email: bcr@pangeaenv.com	Bob Clark-Riddell	
Pangea Environmental Svcs., Inc.	TEL: (510) 836-370 FAX: (510) 836-370	Pangea Environmental Svcs., Inc.	Date Received 07/06/2007
1710 Franklin Street, Ste. 200	ProjectNo: #1135.001; Douglas Parking	1710 Franklin Street, Ste. 200	Date Printed: 07/06/2007
Oakland, CA 94612	PO:	Oakland, CA 94612	

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0707095-001	MW-2	Water	07/06/07 5:15:00	<input type="checkbox"/>	A	A											
0707095-002	MW-3	Water	07/06/07 5:35:00	<input type="checkbox"/>	A												
0707095-003	MW-4	Water	07/06/07 4:35:00	<input type="checkbox"/>	A												
0707095-004	MW-5	Water	07/06/07 4:05:00	<input type="checkbox"/>	A												
0707095-005	MW-6	Water	07/06/07 4:50:00	<input type="checkbox"/>	A												
0707095-006	MW-7	Water	07/06/07 3:35:00	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTX W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12							

Prepared by: Maria Venegas

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.



Sample Receipt Checklist

Client Name: **Pangea Environmental Svcs., Inc.**

Date and Time Received: **07/06/07 8:39:02 AM**

Project Name: **#1135.001; Douglas Parking**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **0707095** Matrix Water

Carrier: Client Drop-In

Chain of Custody (COC) Information

- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Sample IDs noted by Client on COC? Yes No
- Date and Time of collection noted by Client on COC? Yes No
- Sampler's name noted on COC? Yes No

Sample Receipt Information

- Custody seals intact on shipping container/cooler? Yes No NA
- Shipping container/cooler in good condition? Yes No
- Samples in proper containers/bottles? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No

Sample Preservation and Hold Time (HT) Information

- All samples received within holding time? Yes No
- Container/Temp Blank temperature Cooler Temp: 13.4°C NA
- Water - VOA vials have zero headspace / no bubbles? Yes No No VOA vials submitted
- Sample labels checked for correct preservation? Yes No
- TTLC Metal - pH acceptable upon receipt (pH<2)? Yes No NA

Client contacted:

Date contacted:

Contacted by:

Comments:



McC Campbell Analytical, Inc.

"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mcccampbell.com E-mail: main@mcccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1135.001; Douglas Parking	Date Sampled: 07/06/07
		Date Received: 07/06/07
	Client Contact: Bob Clark-Riddell	Date Extracted: 07/07/07-07/10/07
	Client P.O.:	Date Analyzed 07/07/07-07/10/07

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

Extraction method SW5030B

Analytical methods SW8021B/8015Cm

Work Order: 0707095

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-2	W	30,000,a	ND<250	3200	2000	1500	5200	50	99
002A	MW-3	W	7100,a,m	ND<30	2.4	5.6	0.85	10	1	113
003A	MW-4	W	4600,a	ND<90	91	30	210	55	10	115
004A	MW-5	W	ND	ND	ND	ND	ND	ND	1	94
005A	MW-6	W	28,000,a,h,i	ND<500	600	3000	900	2700	10	119
006A	MW-7	W	ND	ND	ND	ND	ND	ND	1	107

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; p) see attached narrative.



QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder 0707095

Analyte	EPA Method SW8021B/8015Cm		Extraction SW5030B			BatchID: 29132			Spiked Sample ID: 0707079-001A			
	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex) [£]	ND	60	101	100	1.03	98.9	91.4	7.90	70 - 130	30	70 - 130	30
MTBE	ND	10	107	116	8.29	101	104	3.05	70 - 130	30	70 - 130	30
Benzene	ND	10	102	103	1.37	97	97	0	70 - 130	30	70 - 130	30
Toluene	ND	10	94.3	94.8	0.471	92.3	93.8	1.66	70 - 130	30	70 - 130	30
Ethylbenzene	ND	10	106	105	1.01	101	101	0	70 - 130	30	70 - 130	30
Xylenes	ND	30	103	100	3.28	96.7	96.7	0	70 - 130	30	70 - 130	30
%SS:	95	10	94	99	4.48	94	94	0	70 - 130	30	70 - 130	30

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

BATCH 29132 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0707095-001A	07/06/07 5:15 AM	07/07/07	07/07/07 4:09 AM	0707095-002A	07/06/07 5:35 AM	07/07/07	07/07/07 4:41 AM
0707095-003A	07/06/07 4:35 AM	07/07/07	07/07/07 5:14 AM	0707095-004A	07/06/07 4:05 AM	07/07/07	07/07/07 5:46 AM
0707095-005A	07/06/07 4:50 AM	07/07/07	07/07/07 2:04 AM	0707095-006A	07/06/07 3:35 AM	07/10/07	07/10/07 12:44 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.