

C A M B R I A

October 29, 2002

Mr. Scott Seery
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Alameda County
NOV 07 2002
Environmental Health

Re: **Third Quarter 2002 Monitoring Report**
Connell Automobile Dealership
3093 Broadway
Oakland, California
StID #469



Dear Mr. Seery:

On behalf of Messrs. George Hill and Gordon Linden, and as required by the Alameda County Health Care Services Agency (ACHCSA), Cambria Environmental Technology, Inc. (Cambria) has prepared this quarterly monitoring report for the above-referenced site. This report satisfies the quarterly reporting requirements prescribed by Title 23 of the California Code of Regulations Article 3 Section 2652(d). The site background, third quarter 2002 activities and results, and anticipated fourth quarter 2002 activities are presented below.

SITE BACKGROUND

Three underground storage tanks (USTs) which previously contained gasoline, diesel, and waste oil were removed from the subject site in December 1989. Soil and groundwater investigation has been ongoing since 1990. Between October 1996 and March 1998, operation of a soil vapor extraction (SVE) remediation system removed approximately 1,421 pounds of hydrocarbons. Manual removal of separate phase hydrocarbons (SPH) from site monitoring wells has been conducted since 1991.

THIRD QUARTER 2002 ACTIVITIES AND RESULTS

Groundwater Monitoring: Cambria monitored site groundwater following the sampling protocol described in Cambria's May 8, 2000 *Workplan Addendum* (Attachment A). On August 4, 2002 Cambria gauged monitoring wells MW-1, MW-4, MW-6, MW-7, MW-8, MW-9, MW-13, MW-14, and MW-15, and inspected the wells for SPH. Groundwater samples were collected from wells MW-4, MW-7, MW-8, MW-9, and MW-13. The samples were analyzed by a

Oakland, CA
San Ramon, CA
Sonoma, CA

**Cambria
Environmental
Technology, Inc.**

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
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California Department of Health Services certified analytical laboratory for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tertiary butyl ether (MTBE), TPH as diesel (TPHd), TPH as motor oil (TPHmo), and EPA List 8010 halogenated volatile organic compounds (HVOCs). The groundwater elevation, petroleum hydrocarbon, and HVOC data are presented in Tables 1 and 2. Historic dissolved metals and semi-volatile organic compounds (SVOCS) data is presented in Table 3. SPH thickness and quantities removed are presented in Table 4. The analytical laboratory report is included as Attachment B. Field data sheets are included as Attachment C.

Groundwater Flow Direction: Based on the August 4, 2002 depth-to-water measurements, groundwater flowed east-northeastward with a calculated gradient of 0.036, which is consistent with historical trends. The groundwater elevations, groundwater flow direction, and gradient are shown on Figure 1.

Contaminant Distribution in Groundwater: In general, monitoring results were consistent with past results for this site. SPH were detected in wells MW-1, MW-6, MW-14 and MW-15 (sheen) (Figure 1). The primary contaminants of concern in site groundwater are benzene, 1,2 dichloroethane (1,2-DCA), naphthalene, lead and nickel; these are typically associated with releases from USTs containing gasoline, diesel, and/or motor oil. The maximum concentrations detected were benzene at 9,200 micrograms per liter ($\mu\text{g/L}$) in well MW-4, 1,2-DCA at 360 $\mu\text{g/L}$ in well MW-9, TPHd at 92,000 $\mu\text{g/L}$ in well MW-4, and TPHmo at 310 $\mu\text{g/L}$ in well MW-13 (Tables 1 and 2). The contaminant plume is adequately defined crossgradient (south) and downgradient (east) of the former UST complex location by wells MW-7 and MW-13, respectively.

Separate-Phase Hydrocarbon Removal: Cambria conduct SPH removal activities on June 14 and August 4, 2002. During these site visits Cambria removed a total of 0.041 gallons (0.25 pounds) of SPH from wells MW-1, MW-6 and MW-14. As of August 4, 2002, a total of approximately 152.05 gallons (927.48 pounds) of SPH since liquid-phase hydrocarbon removal began in December 1991. Table 4 presents the SPH thickness measurements, the amount of SPH removed from the wells during each site visit, and the cumulative mass of SPH removed from each well.

ANTICIPATED FOURTH QUARTER 2002 ACTIVITIES



Groundwater Monitoring and Reporting: In accordance with the approved well sampling protocol, Cambria will gauge site wells MW-1, MW-4, MW-6, MW-7, MW-8, MW-9, MW-13, MW-14, and MW-15, and collect groundwater samples from wells MW-4, MW-7, MW-8, MW-9, and MW-13. Cambria will analyze groundwater samples for TPHd, TPHmo, TPHg, BTEX, MTBE, and EPA List 8010 HVOCs. For first quarter monitoring events, Cambria will also collect groundwater samples from source area wells MW-1, MW-6, MW-14 and MW-16 (if SPH is not present), and samples from *all* sampled site wells will be analyzed for SVOCs and LUFT metals in addition to the other routine analytes. Cambria also measures dissolved oxygen in all sampled wells. Cambria will prepare a quarterly monitoring report that will include tabulated groundwater elevation and analytical data and a potentiometric surface map.

Separate-Phase Hydrocarbon Removal: Cambria will conduct monthly SPH recovery events. Proper functioning of the recovery devices in MW-1, MW-6 and MW-14 will be verified. Collected SPH will be transferred to labeled, DOT-approved steel drums pending disposal or recycling.

Feasibility Testing and Corrective Action Plan (CAP) Preparation: The *Feasibility Test Report* dated March 16, 2001 concluded that remediation would be feasible at the site. Although CAP preparation has been approved by the ACHCSA and the Fund, Cambria has requested that the ACHCSA confirm that CAP preparation is appropriate. Cambria has also requested an opportunity to meet with the ACHCSA to discuss required elements of a CAP for moving this site towards closure by the ACHCSA and the Regional Water Quality Control Board.

Interim Remediation: As requested by the ACHCSA letter dated September 23, 2002, Cambria will prepare a workplan for interim free product removal. Upon receipt of Fund cost pre-approval, Cambria began workplan preparation.

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Third Quarter 2002 Groundwater Monitoring Report
Connell Automobile Dealership
Oakland, California
October 29, 2002

CLOSING

We trust that this report meets your requirements. If you have any questions or comments concerning this report, please call Mary Holland-Ford at (510) 450-1982.

Sincerely,
Cambria Environmental Technology, Inc.



Mary Holland-Ford
Project Geologist

Bob Clark-Riddell
Bob Clark-Riddell, P.E.
Principal Engineer



- Figures: 1 - Groundwater Elevation Contour Map
- Tables: 1 - Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
2 - Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs
3 - LUFT Metals in Groundwater
4 - Liquid Phase Hydrocarbon Removal
- Attachments: A - Well Sampling Protocol
B - Analytical Laboratory Report
C - Field Data Sheets

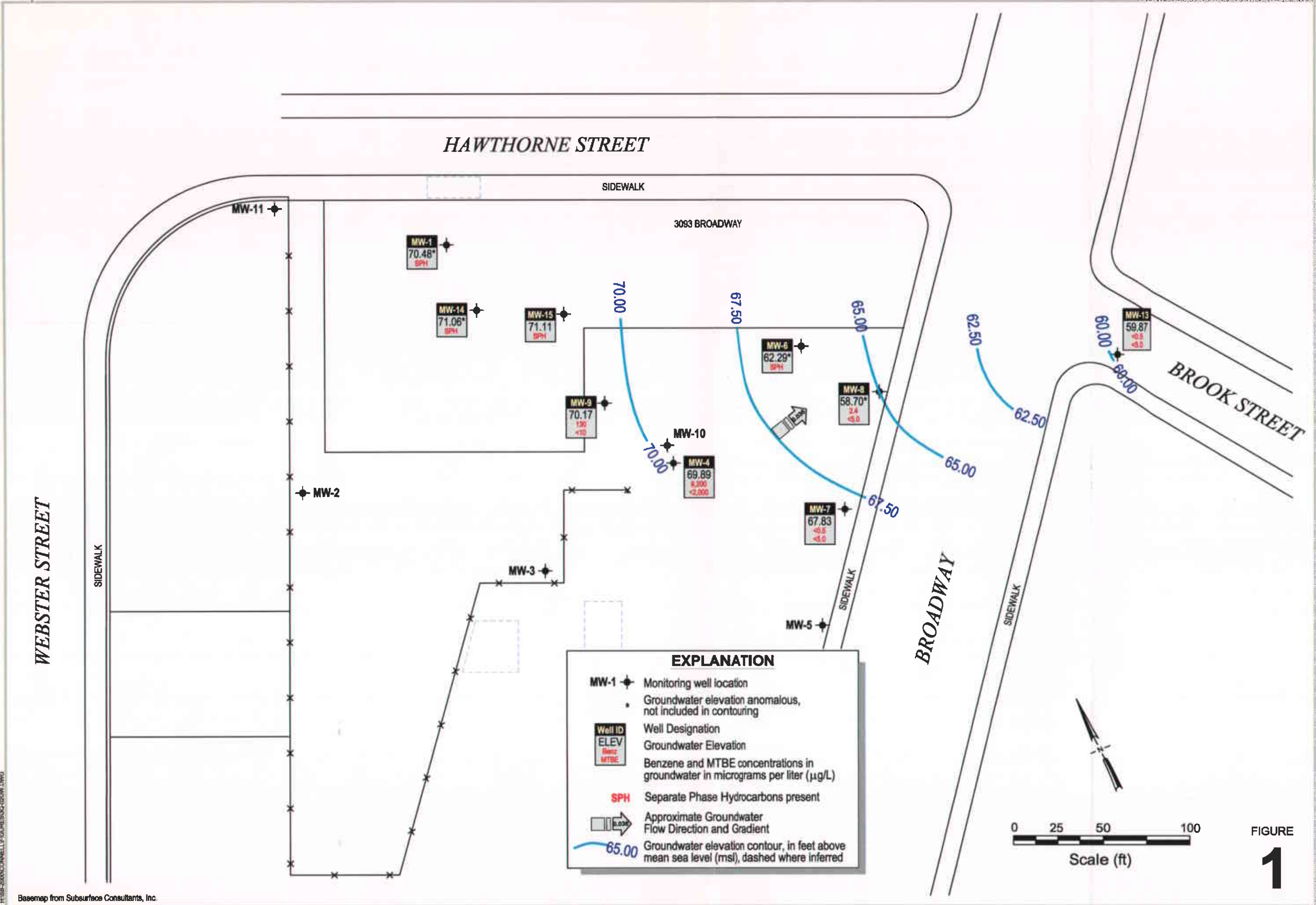
cc: Mr. George Hill, 305 Sheridan Avenue, Piedmont, California 94611
Mr. Gordon Linden, 150 La Salle Avenue, Piedmont, California 94611
Mr. Paul Kibel, Fitzgerald, Abbott & Beardsley, LLP, 1221 Broadway, 21st Floor, Oakland, California 94612
Mr. Leroy Griffin, Hazardous Materials Manager, Fire Department - OES, 1605 MLK Jr. Way, Oakland, California 94612

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FIGURES



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Basemap from Subsurface Consultants, Inc.



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TABLES

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
 Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Ethyl- benzene μg/l								
				TVH ←	TPHg	Benzene	Toluene	Xylenes	MTBE	1,2-DCA	Other HVOCs →	
MW-1	10/5/1990	26.40	68.08	620,000	--	33,000	50,000	7,900	41,000	--	2,900	ND
94.48	3/1/1991	27.46	67.02	SPH	--	--	--	--	--	**	--	--
	10/12/1992	26.44	68.04	490,000	--	51,000	59,000	5,000	27,000	--	1,300	--
	11/24/1992	26.63	67.85	320,000	--	35,000	43,000	4,200	22,000	--	1,600	ND
	4/5/1993	23.77	70.71	270,000	--	50,000	58,000	4,600	25,000	--	1,800	ND
	7/21/1993	24.51	69.97	SPH	--	--	--	--	--	--	--	--
	11/9/1993	26.06	68.42	SPH	--	--	--	--	--	--	--	--
	8/30/1995	21.73	72.75	SPH	--	--	--	--	--	--	--	--
	12/4/1995	21.94	72.54	SPH	--	--	--	--	--	<200	--	--
	5/2/1996	20.65	73.83	340,000	--	57,000	73,000	7,200	38,000	--	1,200	--
	11/5/1996	24.29	70.19	270,000	--	43,000	56,000	4,500	34,000	--	--	--
	5/9/1997	22.79	71.69	240,000	--	36,000	45,000	3,300	17,900	--	930	--
	11/5/1997	25.06	69.42	240,000	--	42,000	48,000	3,600	18,800	<1,000	1,200	--
	2/9/1998	22.64	71.84	220,000	--	47,000	60,000	5,200	29,800	<1,000	1,500	ND
	5/1/1998	19.95	74.53	160,000	--	35,000	42,000	2,800	16,000	<1,000	1,100	ND
	11/3/1998	23.29	71.19	200,000	--	39,000	49,000	4,400	26,000	<500	1,200	ND
	3/24/1999	22.30	72.18	SPH	--	--	--	--	--	--	--	--
	7/1/1999	22.70	71.78	SPH	--	--	--	--	--	--	--	--
	9/21/1999	23.81	70.67	SPH	--	--	--	--	--	--	--	--
	2/9/2000	23.95	70.59	SPH	--	--	--	--	--	--	--	--
	5/31/2000	22.05	72.43	--	SPH	--	--	--	--	--	--	--
	8/8/2000	22.49	71.99	--	SPH	--	--	--	--	--	--	--
	11/14/2000	24.65	69.83	--	SPH	--	--	--	--	--	--	--
	3/1/2001	24.22	70.28	--	SPH	--	--	--	--	--	--	--
	5/7/2001	23.85	70.67	--	SPH (0.05)	--	--	--	--	--	--	--
	8/1/2001	23.91	70.64	--	SPH (0.09)	--	--	--	--	--	--	--
	11/5/2001	23.95	70.67	--	SPH (0.18)	--	--	--	--	--	--	--
	2/13/2002	23.15	71.39	--	SPH(0.07)	--	--	--	--	--	--	--
	5/2/2002	23.91	70.60	--	SPH (0.04)	--	--	--	--	--	--	--
	8/4/2002	24.02	70.48	--	SPH (0.03)	--	--	--	--	--	--	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	←----- μg/l -----→								
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
MW-2 94.81	3/1/1991	27.86	66.95	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/24/1992	27.91	66.90	<50	--	<0.5	1.1	<0.5	1.5	--	<1.0	ND
	4/5/1993	25.95	68.86	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	25.59	69.22	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/10/1993	26.72	68.09	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	25.75	69.06	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/1996	23.28	71.53	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/1997	24.58	70.23	<50	--	<0.5	0.7	<0.5	<0.5	--	<1.0	--
	4/29/1998	22.18	72.63	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
MW-3 90.08	3/1/1991	23.17	66.91	<50	--	<50	0.6	<0.5	<0.5	--	<1.0	ND
	11/25/1992	23.01	67.07	50	--	<0.5	0.9	<0.5	2	--	<1.0	ND
	4/5/1993	22.11	67.97	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	23.93	66.15	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/10/1993	23.14	66.94	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	20.61	69.47	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/1996	18.43	71.65	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/1997	19.77	70.31	<50	--	<0.5	0.7	<0.5	<0.5	--	<1.0	--
	4/29/1998	17.92	72.16	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
MW-4 88.84	3/1/1991	23.79	65.05	150,000	--	20,000	38,000	2,800	14,000	**	610	ND
	10/12/1992	22.48	66.36	230,000	--	15,000	32,000	2,500	14,000	--	430	--
	11/24/1992	22.60	66.24	210,000	--	14,000	31,000	2,500	14,000	--	500	ND
	4/2/1993	20.11	68.73	SPH	--	--	--	--	--	--	--	--
	7/21/1993	20.48	68.36	SPH	--	--	--	--	--	--	--	--
	11/9/1993	21.71	67.13	SPH	--	--	--	--	--	--	--	--
	8/30/1995	19.90	68.94	SPH	--	--	--	--	--	--	--	--
	12/1/1995	19.40	69.44	SPH	--	--	--	--	--	--	--	--
	5/2/1996	17.50	71.34	140,000	--	24,000	50,000	3,000	15,100	--	420	ND
	11/4/1996	20.13	68.71	160,000	--	16,000	38,000	2,700	14,000	--	380	ND
	5/8/1997	18.63	70.21	170,000	--	16,000	37,000	2,400	15,900	--	290	--
	11/5/1997	20.19	68.65	190,000	--	15,000	31,000	2,200	14,600	<400	290	--
2/9/1998	18.28	70.56	110,000	--	19,000	42,000	2,500	18,300	<500	300	--	

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	←----- μg/l -----→								
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
MW-4	5/1/1998	16.11	72.73	130,000	--	15,000	31,000	2,000	13,400	<1,000	260	ND
88.84	8/4/1998	17.54	71.30	130,000	--	16,000	34,000	2,400	15,700	<400	240	ND
(cont'd)	11/2/1998	19.21	69.63	140,000	--	16,000	32,000	2,300	15,500	<400	230	ND
	3/26/1999	17.51	71.33	110,000	--	15,000	30,000	1,600	15,000	450 ⁴	210	5
	7/1/1999	18.80	70.04	110,000	--	13,000	23,000	1,600	12,000	<83	170	5
	9/21/1999	19.85	68.99	140,000	--	16,000	31,000	2,400	14,800	ND	<1000	5
	2/9/2000	19.76	69.08	--	140,000	16,000	28,000	2,100	14,000	<400	100	DCB: 5.9, MCB: 5.9
	5/31/2000	17.90	70.94	--	15,000	17,000	28,000	2,400	14,000	<0.5 ⁶	<0.5	ND
	8/8/2000	18.62	70.22	--	140,000	15,000	25,000	2,100	13,000	<300	110	ND
	11/14/2000	19.63	69.21	--	150,000	19,000	36,000	2,900	17,000	<200	120	ND
	3/1/2001	19.68	69.16	--	120,000	10,000	15,000	1,300	10,000	<2000	110	ND
	5/7/2001	18.60	70.24	--	210,000	12,000	19,000	1,900	12,000	<200	100	ND
	8/1/2001	18.73	70.11	--	160,000	13,000	21,000	2,200	13,000	<200	84	ND
	11/5/2001	18.97	69.87	--	220,000	15,000	26,000	3,100	16,000	<200	72	ND
	2/13/2002	18.59	70.25	--	180,000	6,100	11,000	1,400	13,000	<200	55	2-MNE: 620, NE: 1000
	5/2/2002	18.77	70.07	--	110,000	13,000	20,000	2,000	10,000	<1,200	87	ND
	8/4/2002	18.95	69.89	--	92,000	9,200	15,000	1,800	10,000	<2,000	44	ND
MW-5	3/15/1991	26.31	58.53	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
84.84	11/10/1992	26.83	58.01	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	4/2/1993	26.62	58.22	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	26.60	58.24	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/1993	27.24	57.60	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	27.46	57.38	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/1996	26.02	58.82	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/1997	26.76	58.08	<50	--	<0.5	0.5	<0.5	<0.5	--	<1.0	--
	4/29/1998	26.55	58.29	<50	--	<0.5	0.5	<0.5	<0.5	<2	<1.0	ND
MW-6	3/15/1991	25.82	59.80	80,000	--	12,000	13,000	1,100	5,400	--	1,400	DBCM: 160
85.62	10/12/1992	25.02	60.60	19,000	--	3,200	1,400	200	560	--	840	--
	12/1/1992	28.87	56.75	SPH	--	--	--	--	--	--	--	--
	4/2/1993	26.96	58.66	SPH	--	--	--	--	--	--	--	--
	7/21/1993	26.17	59.45	SPH	--	--	--	--	--	--	--	--

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH ←	TPHg	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs →
MW-6	11/9/1993	27.51	58.11	SPH	--	--	--	--	--	--	--	--
(cont'd)	8/30/1995	28.00	57.62	SPH	--	--	--	--	--	--	--	--
	12/1/1995	27.58	58.04	SPH	--	--	--	--	--	<8,000,000	71	--
86.94	5/3/1996	28.15	58.79	130,000	--	37,000	50,000	3,200	14,200	--	2,400	ND
	5/9/1997	26.54	60.40	1,700,000	--	14,000	27,000	4,000	28,200	--	1,200	--
	11/5/1997	26.16	60.78	160,000	--	13,000	19,000	1,900	14,300	<200	790	--
85.82	5/1/1998	22.96	62.86	130,000	--	15,000	23,000	1,700	13,200	<500	1,100	ND
	11/3/1998	24.35	61.47	110,000	--	17,000	21,000	1,800	10,700	<200	990	ND
	3/26/1999	23.82	62.00	SPH	--	--	--	--	--	--	--	--
	7/1/1999	24.45	61.37	SPH	--	--	--	--	--	--	--	--
	9/21/1999	24.58	61.24	SPH	--	--	--	--	--	--	--	--
	2/9/2000	24.93	61.24	SPH	--	--	--	--	--	--	--	--
	5/31/2000	23.47	62.41	--	SPH	--	--	--	--	--	--	--
	8/8/2000	23.85	61.97	--	SPH	--	--	--	--	--	--	--
	11/14/2000	24.61	61.21	--	SPH	--	--	--	--	--	--	--
	3/1/2001	23.97	61.85	--	SPH	--	--	--	--	--	--	--
	5/7/2001	23.17	62.71	--	SPH	--	--	--	--	--	--	--
	8/1/2001	obstruction in well	--	--	--	--	--	--	--	--	--	--
	11/5/2001	obstruction in well	--	--	--	--	--	--	--	--	--	--
	2/13/2002	obstruction in well	--	--	--	--	--	--	--	--	--	--
	5/2/2002	23.25	62.41	--	SPH (0.05)	--	--	--	--	--	--	--
	8/4/2002	23.55	62.29	--	SPH (0.03)	--	--	--	--	--	--	--
MW-7	3/15/1991	21.63	63.78	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
85.41	11/24/1992	21.52	63.89	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	4/2/1993	20.08	65.33	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	19.59	65.82	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/1993	20.65	64.76	<50	--	<0.5	1	<0.5	1.7	--	<1.0	ND
	8/30/1995	18.78	66.63	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	12/1/1995	19.47	65.94	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH	TPHg	Benzene	Toluene	Ethyl-benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
TOC Elev. (ft)				←				μg/l				→
MW-7	5/2/1996	17.15	68.26	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
85.41	8/8/1996	18.48	66.93	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
(cont'd)	11/4/1996	18.69	66.72	<50	--	<1	<1	<1	<1	--	<1.0	ND
	2/6/1997	17.44	67.97	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	5/8/1997	17.72	67.69	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	8/7/1997	18.49	66.92	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	11/5/1997	18.86	66.55	<50	--	<0.5	<0.5	<0.5	<0.5	<2	1	--
	2/9/1998	17.56	67.85	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	--
	4/29/1998	16.23	69.18	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	8/4/1998	17.24	68.17	<50	--	<0.5	<0.5	<0.5	<0.5	<2	1.1	ND
	11/2/1998	17.91	67.50	<50	--	<0.5	<0.5	<0.5	<0.5	<2	1.2	ND
	3/26/1999	16.42	68.99	<50	--	<0.5	<0.5	<0.5	<0.5	<2	ND	ND
	7/1/1999	17.90	67.51	85	--	<0.5	1.1	0.55	2.5	<0.5	1.0	5
	9/21/1999	18.91	66.50	<50	--	0.7	1.8	<0.5	1.5	<5.0	<5.0	ND
	2/9/2000	16.74	68.67	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
	5/31/2000	16.21	69.20	--	<50	3	6	1	9	<0.5	<0.5	ND
	8/8/2000	16.92	68.49	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.52	ND
	11/14/2000	17.00	68.41	--	<50	<0.5	0.63	<0.5	<0.5	<5.0	<0.5	ND
	3/1/2001	17.09	68.32	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/7/2001	17.19	68.22	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	8/1/2001	17.25	68.16	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	11/5/2001	17.35	68.06	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	2/13/2002	17.50	67.91	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/2/2002	17.30	68.11	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	8/4/2002	17.58	67.83	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
MW-8	10/12/1992	27.70	57.80	70	--	20	1	1	3	--	210	--
85.50	11/25/1992	27.62	57.88	<50	--	<0.5	<0.5	<0.5	<0.5	--	200	ND
	4/8/1993	26.64	58.86	490	--	15	45	5.1	73	--	210	ND
	7/21/1993	26.60	58.90	180	--	2.5	3	<0.5	1.9	--	350	ND
	11/11/1993	27.18	58.32	310	--	23	<0.5	<0.5	<0.5	--	240	ND

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	←----- μg/l -----→								
				TVH	TPHg	Benzene	Toluene	Ethyl- benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
MW-8	8/30/1995	26.35	59.15	660	--	360	6.8	13	2.8	--	130	--
85.50	12/4/1995	26.72	58.78	250	--	46	0.9	4.9	<0.5	--	94	ND
(cont'd)	5/3/1996	25.47	60.03	69	--	110	<0.5	<0.5	1.5	--	100	ND
	8/8/1996	26.41	59.09	120	--	11	<0.5	<0.5	<0.5	<2	93	ND
	11/5/1996	26.77	58.73	110	--	20	<1	1	<1	--	98	ND
	2/6/1997	25.84	59.66	67 ^{1,2}	--	51	<0.5	0.56	<0.5	<2	81	ND
	5/9/1997	26.39	59.11	110 ^{1,2}	--	59	<0.5	<0.5	<0.5	--	76	--
	8/7/1997	26.72	58.78	<50	--	12 ³	<0.5	<0.5	<0.5	<2	79	ND
	11/5/1997	26.82	58.68	<50	--	9.4	<0.5	<0.5	<0.5	<2	84	--
	2/9/1998	25.57	59.93	<50	--	6	<0.5	<0.5	<0.5	<2	85	--
	5/1/1998	25.64	59.86	430	--	490	7.1	27	26	<10	85	ND
	8/5/1998	25.96	59.54	140	--	19	<0.5	5.2	5.3	<2	69	ND
	11/3/1998	26.27	59.23	150	--	110	1.1	4.3	4.5	<2	67	ND
	3/31/1999	20.93	64.57	54	--	170	1.5	4.1	1.9	4.4 ⁴	5.9	1,1 DCA: 0.7 ⁵
	7/1/1999	26.59	58.91	140	--	58	0.9	3	2.3	<0.5	55	
	9/21/1999	26.89	58.61	670	--	170	2.6	11	7.9	<5	41	ND
	2/9/2000	26.60	58.90	--	300	60	1.2	4.8	1.2	<5.0	40	<0.5
	8/8/2000	26.43	59.07	--	270	56	1.2	4.1	1.0	<5.0	39	ND
	11/14/2000	26.60	58.90	--	330	64	1.3	3.5	0.60	<5.0	47	ND
	3/1/2001	26.41	59.09	--	400	140	<0.5	<0.5	0.55	<5.0	16	ND
	5/7/2001	26.55	58.95	--	240	37	0.71	2.5	0.77	<5.0	48	ND
	8/1/2001	26.71	58.79	--	130	5.2	<0.5	<0.5	<0.5	<5.0	39	ND
	11/5/2001	26.67	58.83	--	140	3.3	<0.5	<0.5	<0.5	<5.0	44	ND
	2/13/2002	26.15	59.35	--	1,100	440	0.087	0.66	2.0	<5.0	47	ND
	5/2/2002	26.63	58.87	--	90	3.9	<0.5	<0.5	<0.5	<5.0	47	ND
	8/4/2002	26.80	58.70	--	120	2.4	0.77	<0.5	<0.5	<5.0	44	ND

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH ←	TPHg	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs →
MW-9	11/24/1992	23.51	66.86	19,000	--	180	590	23	2000	--	340	TCM: 15
90.37	4/5/1993	21.14	69.23	2,300	--	48	4	0.6	13	--	600	TCM: 2
	7/21/1993	21.54	68.83	2,300	--	170	8.1	15	<0.5	--	1100	ND
	11/10/1993	27.53	62.84	4,400	--	69	7.3	21	9.7	--	900	ND
	8/30/1995	19.59	70.78	3,200	--	3,900	49	80	22.8	--	960	--
	12/4/1995	20.65	69.72	--	--	--	--	--	--	<2	--	--
	5/2/1996	18.63	71.74	<1300	--	2,600	<13	200	<13	--	550	ND
	11/5/1996	20.69	69.68	1,800	--	280	<5	65	<5	--	770	ND
	5/9/1997	19.96	70.41	1,100	--	160	<0.5	42	<0.5	--	690	--
	8/8/1997	20.84	69.53	570 ^{1,2}	--	<0.5	<0.5	<0.5	0.78 ³	<2	680	ND
	11/5/1997	21.55	68.82	490 ¹	--	<0.5	<0.5	6	<0.5	<2	500	--
	2/9/1998	20.21	70.16	270 ¹	--	48	17	5.8	<0.5	<2	520	--
	5/1/1998	19.27	71.10	550	--	70	<0.5	22	2.2	<2	390	ND
	8/5/1998	19.35	71.02	550 ¹	--	88	<0.5	13	1.9 ³	<2	420	ND
	11/2/1998	20.43	69.94	580	--	<0.5	<0.5	7.5 ³	1.6 ³	<2	430	ND
	3/25/1999	18.46	71.91	1,100	--	160	<0.5	21	2.1 ³	5.7 ⁴	550	ND
	7/1/1999	19.95	70.42	540	--	100	7.4	26	16.9	<1.3	400	⁵
	9/21/1999	21.15	69.22	2,700	--	320	98	88	47	<20	540	ND
	2/9/2000	21.08	69.29	--	1,600	81	3.6	19	18	<5.0	360	<0.5
	5/31/2000	19.11	71.26	--	1,500	170	13	25	<1.0	<0.5	300	ND
	8/8/2000	19.86	70.51	--	1,300	140	2.1	19	<0.5	<5.0	330	ND
	11/14/2000	20.90	69.47	--	1,700	250	2.6	44	2.1	<5.0	610	ND
	3/1/2001	20.45	69.92	--	1,800	170	5.6	30	2.5	<20	620	ND
	5/7/2001	19.83	70.54	--	1,500	120	2.6	24	<0.5	<5.0	400	ND
	8/1/2001	20.02	70.35	--	2,600	280	4.8	50	<0.5	<5.0	450	ND
	11/5/2001	19.85	70.52	--	2,200	170	4.5	100	0.54	<5.0	260	ND
	2/13/2002	19.80	70.57	--	1,800	98	3	58	1.5	<5.0	340	ND
	5/2/2002	19.93	70.44	--	1,100	82	1.4	20	<0.5	<10	330	ND
	8/4/2002	20.20	70.17	--	1,200	130	2.5	50	0.58	<10	360	ND

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH ←	TPHg	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs →
MW-10	10/12/1992	21.55	67.05	28,000	--	2,700	3,800	210	1,300	--	150	--
88.60	11/24/1992	21.86	66.74	130,000	--	9,700	19,000	1,400	8,400	--	370	ND
	4/5/1993	19.14	69.46	63,000	--	6,300	14,000	1,100	7,500	--	70	ND
	7/21/1993	19.79	68.81	140,000	--	16,000	31,000	2,200	13,000	--	700	ND
	8/30/1995	17.99	70.61	92,000	--	13,000	24,000	1,800	9,100	--	300	--
	5/3/1996	17.04	71.56	81,000	--	17,000	29,000	2,100	8,500	--	320	ND
	5/9/1997	18.36	70.24	63,000	--	7,400	13,000	940	4,100	--	150	--
	5/1/1998	15.84	72.76	60,000	--	7,100	14,000	1100	5,300	<250	120	ND
MW-11	11/24/1992	33.65	68.41	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
102.06	12/8/92***	33.37	68.69	<50	--	<0.1	<0.1	<0.1	<0.1	--	--	--
	12/8/1992	33.37	68.69	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--
	4/5/1993	31.03	71.03	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/1993	31.90	70.16	160	--	<0.5	1.8	<0.5	<0.5	--	<1.0	ND
	11/9/1993	32.60	69.46	80	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	28.92	73.14	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/1996	28.00	74.06	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/1997	29.93	72.13	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	4/29/1998	27.22	74.84	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
MW-13	11/24/1992	26.05	58.01	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
84.06	12/8/92***	25.08	58.98	<50	--	<0.1	<0.1	<0.1	<0.1	--	--	--
	12/8/1992	25.08	58.98	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--
	4/5/1993	24.64	59.42	<50	--	<0.5	0.9	<0.5	<0.5	--	<1.0	ND
	7/21/1993	24.29	59.77	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/1993	24.23	59.83	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/1995	23.30	60.76	<50	--	49	<0.5	<0.5	<0.5	--	3.6	--
	12/1/1995	23.80	60.26	<50	--	<0.5	<0.5	<0.5	<0.5	--	4.1	ND
	5/3/1996	23.19	60.87	<50	--	<0.5	<0.5	<0.5	<0.5	--	4	ND

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs
 Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH ←	TPHg	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs →
MW-13	8/8/1996	23.44	60.62	<50	--	32	<0.5	<0.5	<0.5	<2	6.4	ND
84.06	11/5/1996	24.04	60.02	<50	--	<1	<1	<1	<1	--	5.7	ND
(cont'd)	2/6/1997	23.24	60.82	<50	--	<0.5	<0.5	<0.5	<0.5	<2	3.5	ND
	5/8/1997	23.46	60.60	<50	--	81	<0.5	<0.5	<0.5	--	5.5	--
	8/8/1997	23.92	60.14	<50	--	<0.5	<0.5	<0.5	<0.5	<2	6.8	ND
	11/5/1997	24.27	59.79	<50	--	<0.5	<0.5	<0.5	<0.5	<2	5.5	--
	2/9/1998	22.89	61.17	<50	--	<0.5	<0.5	<0.5	<0.5	<2	2.9	--
	4/29/1998	22.27	61.79	<50	--	24	<0.5	<0.5	<0.5	<2	5.7	ND
	8/4/1998	22.75	61.31	120	--	200	<1	<1	<1	<4	6.2	ND
	11/3/1998	23.90	60.16	59 ¹	--	33	<0.5	<0.5	<0.5	<2	6.1	ND
	3/31/1999	23.11	60.95	130	--	0.56	<0.5	<0.5	<0.5	<2	1.4	ND
	7/1/1999	23.40	60.66	160	--	370	19	1.2	3.5	<1	4.2	⁵
	9/21/1999	21.91	62.15	370	--	150	1.0	0.8	0.8	<5.0	<5.0	ND
	2/9/2000	23.84	60.22	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	<0.5
	8/8/2000	23.31	60.75	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	3.6	ND
	11/14/2000	24.00	60.06	--	<50	<0.5	0.52	<0.5	<0.5	<5.0	3.3	ND
	3/1/2001	23.93	60.13	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/7/2001	23.93	60.13	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	1.3	ND
	8/1/2001	24.10	59.96	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	11/5/2001	24.02	60.04	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	2/13/2002	23.70	60.36	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND
	5/2/2002	23.97	60.09	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	0.54	ND
	8/4/2002	24.19	59.87	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	ND

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Table 1. Groundwater Elevation and Analytical Data: Volatile Hydrocarbons and HVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	Volatile Hydrocarbons and HVOCs								
				TVH ←	TPHg	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs →
MW-14	5/26/1998	21.67	72.99	41,000	--	7,100	11,000	720	3,900	<1000	440	ND
94.66	7/1/1999	22.95	71.71	SPH	--	--	--	--	--	--	--	--
	9/21/1999	24.26	70.40	SPH	--	--	--	--	--	--	--	--
	2/9/2000	24.13	70.53	--	92,000	12,000	17,000	1,300	8,700	<140	450	<0.5
	5/31/2000	22.09	72.57	--	SPH	--	--	--	--	--	--	--
	8/8/2000	22.88	71.78	--	SPH	--	--	--	--	--	--	--
	11/14/2000	23.90	70.76	--	SPH	--	--	--	--	--	--	--
	3/1/2001	23.97	70.69	--	SPH	--	--	--	--	--	--	--
	5/7/2001	23.45	71.23	--	SPH (sheen)	--	--	--	--	--	--	--
	8/1/2001	23.57	71.12	--	SPH (0.06)	--	--	--	--	--	--	--
	11/5/2001	23.50	71.18	--	SPH (0.03)	--	--	--	--	--	--	--
	2/13/2002	22.99	71.70	--	SPH (0.04)	--	--	--	--	--	--	--
	5/2/2002	23.51	71.17	--	SPH (0.02)	--	--	--	--	--	--	--
	8/4/2002	23.61	71.06	--	SPH (0.01)	--	--	--	--	--	--	--
MW-15	5/26/1998	21.87	72.89	130,000	--	30,000	38,000	2,500	12,600	<1000	1,200	ND
94.76	7/1/1999	22.25	72.51	SPH	--	--	--	--	--	--	--	--
	9/21/1999	24.12	70.64	SPH	--	--	--	--	--	--	--	--
	2/9/2000	24.42	70.34	--	180,000	32,000	37,000	2,800	14,000	<200	1,100	<0.5
	5/31/2000	22.40	72.36	--	SPH	--	--	--	--	--	--	--
	8/8/2000	23.17	71.59	--	SPH	--	--	--	--	--	--	--
	11/14/2000	24.15	70.61	--	SPH	--	--	--	--	--	--	--
	3/1/2001	23.99	70.77	--	SPH	--	--	--	--	--	--	--
	5/7/2001	23.50	71.26	--	SPH (sheen)	--	--	--	--	--	--	--
	8/1/2001	23.62	71.14	--	SPH (sheen)	--	--	--	--	--	--	--
	11/5/2001	23.65	71.11	--	SPH (sheen)	--	--	--	--	--	--	--
	2/13/2002	23.09	71.67	--	68,000	9,300	8,500	760	2,600	<200	560	ND
	5/2/2002	23.59	71.17	--	SPH (sheen)	--	--	--	--	--	--	--
	8/4/2002	23.65	71.11	--	SPH (sheen)	--	--	--	--	--	--	--

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Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH	TPHg	Benzene	Toluene	Ethyl- benzene μg/l	Xylenes	MTBE	1,2-DCA	Other HVOCs
Trip Blank	8/1/2001	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
	11/5/2001	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--
	2/13/2002	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	--	--

Abbreviations and Notes:

TOC Elev. (ft) = Top of casing elevation in feet above mean sea level

μg/l = micrograms per liter = parts per billion = ppb

TVH = Total Volatile Hydrocarbons

TPHg = Total petroleum hydrocarbons as gasoline

MTBE = Methyl tert-butyl ether

1,2-DCA = 1,2 Dichloroethane

HVOCs = Halogenated volatile organic compounds by EPA Method 8010

DCB = 1, 3 Dichlorobenzene

MCB = Chlorobenzene

DBCM = Dibromochloromethane

TCM = Chloroform = trichloromethane

ND = None detected above laboratory reporting limit, see laboratory report for individual reporting limits.

-- = Sample not analyzed

SPH = Free product encountered in well

<n = Chemical not present at a concentration in excess of detection limit shown

MW-1 was initially referred to as Sample 5.

* = Suspect laboratory contamination contributing to test result.

** = Fuel fingerprint analysis indicates MTBE is not present in the free product sample collected from this well.

*** = Duplicate sample sent to a different chemical laboratory.

1 = Sample exhibits fuel pattern which does not resemble standard

2 = Lighter hydrocarbons than indicated standard

3 = Presence of this compound confirmed by second column, however, the confirmation concentration differed from the reported result by more than a factor of two

4 = Detection may potentially be a false positive, to be checked during the next event.

5 = One or more of the following substances found: Acetone, 1,2-Dibromoethane, 1,3,5-Trimethylbenzene, 2-Chlorotoluene, 1,2,4-Trimethylbenzene, n-Butylbenzene, and Naphthalene. See laboratory results for details.

6 = Confirmed by GC/MS.

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene	Other SVOCs
TOC Elev. (ft)				←			μg/l		→
MW-1	10/5/1990	26.40	68.08	<500	--	--	--	--	--
94.48	3/1/1991	27.46	67.02	SPH	--	--	--	--	--
	10/12/1992	26.44	68.04	--	--	--	--	--	--
	11/24/1992	26.63	67.85	4,600	--	--	--	--	--
	4/5/1993	23.77	70.71	25,000	--	--	--	--	--
	7/21/1993	24.51	69.97	SPH	--	--	--	--	--
	11/9/1993	26.06	68.42	SPH	--	--	--	--	--
	8/30/1995	21.73	72.75	SPH	--	--	630	1,200	ND
	12/4/1995	21.94	72.54	SPH	--	--	--	--	--
	5/2/1996	20.65	73.83	32,000	--	--	250	640	ND
	11/5/1996	24.29	70.19	--	--	--	--	--	--
	5/9/1997	22.79	71.69	28,000	--	--	280	650	ND
	11/5/1997	25.06	69.42	28,000	--	--	720	1,500	ND
	2/9/1998	22.64	71.84	27,000	--	--	160	570	ND
	5/1/1998	19.95	74.53	29,000	--	--	--	--	--
	5/27/1998	--	--	--	--	--	120	630	ND
	11/3/1998	23.29	71.19	37,000	--	--	500	1,100	ND
	3/24/1999	22.30	72.18	SPH	--	--	--	--	--
	7/1/1999	22.70	71.78	SPH	--	--	--	--	--
	9/21/1999	23.81	70.67	SPH	--	--	--	--	--
	2/9/2000	23.95	70.59	--	SPH	--	--	--	--
	5/31/2000	22.05	72.43	--	SPH	--	--	--	--
	11/14/2000	24.65	69.83	--	SPH	--	--	--	--
	3/1/2001	24.22	70.28	--	SPH	--	--	--	--
	5/7/2001	23.85	70.67	--	SPH	--	--	--	--
	8/1/2001	23.91	70.64	--	SPH	--	--	--	--
	11/5/2001	23.95	70.67	--	SPH	--	--	--	--
	2/13/2002	23.15	71.39	--	SPH(0.07)	--	--	--	--
	5/2/2002	23.91	70.60	--	SPH (0.04)	--	--	--	--
8/4/2002	24.02	70.48	--	SPH(0.03)	--	--	--	--	

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling	Depth to	Groundwater	TEH	TPHd	TPHmo	2-Methyl	Naphthalene	Other SVOCs
TOC Elev.	Date	water	Elevation				naphthalene	Naphthalene	
(ft)		(ft)	(ft)	←				μg/l	→
MW-2	3/1/1991	27.86	66.95	<50	--	--	--	--	--
94.81	11/24/1992	27.91	66.90	<50	--	--	--	--	--
	4/5/1993	25.95	68.86	870	--	--	--	--	--
	7/21/1993	25.59	69.22	<50	--	--	--	--	--
	11/10/1993	26.72	68.09	240	--	--	--	--	--
	8/30/1995	25.75	69.06	150	--	--	--	--	--
	5/3/1996	23.28	71.53	<50	--	--	--	--	--
	5/8/1997	24.58	70.23	<50	--	--	--	--	--
	4/29/1998	22.18	72.63	<47	--	--	--	--	--
MW-3	3/1/1991	23.17	66.91	<50	--	--	--	--	--
90.08	11/25/1992	23.01	67.07	160	--	--	--	--	--
	4/5/1993	22.11	67.97	<50	--	--	--	--	--
	7/21/1993	23.93	66.15	<50	--	--	--	--	--
	11/10/1993	23.14	66.94	<50	--	--	--	--	--
	8/30/1995	20.61	69.47	<50	--	--	--	--	--
	5/3/1996	18.43	71.65	<50	--	--	--	--	--
	5/8/1997	19.77	70.31	<50	--	--	--	--	--
	4/29/1998	17.92	72.16	<47	--	--	--	--	--
MW-4	3/1/1991	23.79	65.05	<500	--	--	--	--	--
88.84	10/12/1992	22.48	66.36	--	--	--	--	--	--
	11/24/1992	22.60	66.24	1,600	--	--	--	--	--
	4/2/1993	20.11	68.73	SPH	--	--	--	--	--
	7/21/1993	20.48	68.36	SPH	--	--	--	--	--
	11/9/1993	21.71	67.13	SPH	--	--	--	--	--
	8/30/1995	19.90	68.94	SPH	--	--	--	--	--
	12/1/1995	19.40	69.44	SPH	--	--	--	--	--
	5/2/1996	17.50	71.34	9,200	--	--	--	--	--
	11/4/1996	20.13	68.71	4,700	--	--	--	--	--
	5/8/1997	18.63	70.21	5,100	--	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene $\mu\text{g/l}$	Other SVOCs
MW-4	11/5/1997	20.19	68.65	3,700	--	--	--	--	--
88.84	2/9/1998	18.28	70.56	4,800	--	--	--	--	--
(cont'd)	5/1/1998	16.11	72.73	5,000	--	--	--	--	--
	8/4/1998	17.54	71.30	3,500	--	--	--	--	--
	11/2/1998	19.21	69.63	7,200	--	--	--	--	--
	3/26/1999	17.51	71.33	14,000	--	--	--	--	--
	7/1/1999	18.80	70.04	17,000	--	--	370	860	ND
	9/21/1999	19.85	68.99	14,000	--	--	360	820	ND
	2/9/2000	19.76	69.08	--	12,000	1,000	290	700	ND
	5/31/2000	17.90	70.94	--	14,000 **	<500	--	--	--
	11/14/2000	19.63	69.21	--	8,000	290	--	--	--
	3/1/2001	19.68	69.16	--	57,000	2,800	210	510	ND
	5/7/2001	18.60	-18.60	--	56,000	3,600	--	--	--
	8/1/2001	18.73	70.11	--	42,000	6,700	--	--	--
	11/5/2001	18.97	69.87	--	49,000	14,000	--	--	--
	2/13/2002	18.59	70.25	--	140,000	11,000	620	1000	--
	5/2/2002	18.77	70.07	--	68,000	<25,000	--	--	--
	8/4/2002	18.95	69.89	--	58,000	<25,000	--	--	--
MW-5	3/15/1991	26.31	58.53	<50	--	--	--	--	--
84.84	11/10/1992	26.83	58.01	50	--	--	--	--	--
	4/2/1993	26.62	58.22	<50	--	--	--	--	--
	7/21/1993	26.60	58.24	190	--	--	--	--	--
	11/9/1993	27.24	57.60	170	--	--	--	--	--
	8/30/1995	27.46	57.38	180	--	--	--	--	--
	5/3/1996	26.02	58.82	<50	--	--	--	--	--
	5/8/1997	26.76	58.08	<50	--	--	--	--	--
	4/29/1998	26.55	58.29	<47	--	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene μg/l	Other SVOCs →
MW-6	3/15/1991	25.82	59.80	<50	--	--	--	--	--
85.62	10/12/1992	25.02	60.60	--	--	--	--	--	--
	12/1/1992	28.87	56.75	SPH	--	--	--	--	--
	4/2/1993	26.96	58.66	SPH	--	--	--	--	--
	7/21/1993	26.17	59.45	SPH	--	--	--	--	--
	11/9/1993	27.51	58.11	SPH	--	--	--	--	--
	8/30/1995	28.00	57.62	SPH	--	--	--	--	--
	12/1/1995	27.58	58.04	SPH	--	--	--	--	--
	5/3/1996	26.83	58.79	9,000	--	--	--	--	--
86.94	5/9/1997	26.54	60.40	53,000	--	--	--	--	--
	11/5/1997	26.16	60.78	65,000	--	--	--	--	--
85.82	5/1/1998	22.96	62.86	25,000	--	--	--	--	--
	11/3/1998	24.35	61.47	30,000	--	--	--	--	--
MW-6	3/26/1999	23.82	62.00	SPH	--	--	--	--	--
85.82	7/1/1999	24.45	61.37	SPH	--	--	--	--	--
(cont'd)	9/21/1999	24.58	61.24	SPH	--	--	--	--	--
	2/9/2000	24.93	61.24	--	SPH	--	--	--	--
	5/31/2000	23.47	62.41	--	SPH	--	--	--	--
	11/14/2000	24.61	61.21	--	SPH	--	--	--	--
	3/1/2001	23.97	61.85	--	SPH	--	--	--	--
	5/7/2001	23.17	62.71	--	SPH	--	--	--	--
	8/1/2001	obstruction in well		--	--	--	--	--	--
	11/5/2001	obstruction in well		--	--	--	--	--	--
	2/13/2002	obstruction in well		--	--	--	--	--	--
	5/2/2002	23.25	62.41	--	SPH (0.05)	--	--	--	--
	8/4/2002	23.55	62.29	--	SPH (0.03)	--	--	--	--
	MW-7	3/15/1991	21.63	63.78	<50	--	--	--	--
	85.41	11/24/1992	21.52	63.89	<50	--	--	--	--
4/2/1993		20.08	65.33	<50	--	--	--	--	
7/21/1993		19.59	65.82	150	--	--	--	--	
11/9/1993		20.65	64.76	200	--	--	--	--	
8/30/1995		18.78	66.63	170	--	--	--	--	
12/1/1995		19.47	65.94	<50	--	--	--	--	

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	←-----→					
				TEH	TPHd	TPHmo	2-Methyl naphthalene	Naphthalenc µg/l	Other SVOCs
MW-7	5/2/1996	17.15	68.26	<50	--	--	--	--	--
85.41	8/8/1996	18.48	66.93	<50	--	--	--	--	--
(cont'd)	11/4/1996	18.69	66.72	<50	--	--	--	--	--
	2/6/1997	17.44	67.97	<50	--	--	--	--	--
	5/8/1997	17.72	67.69	<50	--	--	--	--	--
	8/7/1997	18.49	66.92	<50	--	--	--	--	--
	11/5/1997	18.86	66.55	<50	--	--	--	--	--
	2/9/1998	17.56	67.85	<50	--	--	--	--	--
	4/29/1998	16.23	69.18	<47	--	--	--	--	--
	8/4/1998	17.24	68.17	<50	--	--	--	--	--
	11/2/1998	17.91	67.50	<50	--	--	--	--	--
	3/26/1999	16.42	68.99	<50	--	--	--	--	--
	7/1/1999	17.90	67.51	<50	--	--	<10	<10	ND
	9/21/1999	18.91	66.50	<48	--	--	<9.5	<9.5	ND
	2/9/2000	16.74	68.67	--	<50	<250	<10	<10	ND
	5/31/2000	16.21	69.20	--	<50	<500	--	--	--
	11/14/2000	17.00	68.41	--	<50	<250	--	--	--
	3/1/2001	17.09	68.32	--	<50	<250	<10	<10	ND
	5/7/2001	17.19	68.22	--	<50	<250	--	--	--
	8/1/2001	17.25	68.16	--	<50	<250	--	--	--
	11/5/2001	17.35	68.06	--	<50	<250	--	--	--
	2/13/2002	17.50	67.91	--	<50	<250	--	--	--
	5/2/2002	17.30	68.11	--	<50	<250	--	--	--
	8/4/2002	17.58	67.83	--	<50	<250	--	--	--
MW-8	10/12/1992	27.70	57.80	--	--	--	--	--	--
85.50	11/25/1992	27.62	57.88	170	--	--	--	--	--
	4/8/1993	26.64	58.86	100	--	--	--	--	--
	7/21/1993	26.60	58.90	90	--	--	--	--	--
	11/11/1993	27.18	58.32	170	--	--	--	--	--
	8/30/1995	26.35	59.15	240	--	--	--	--	--
	12/4/1995	26.72	58.78	<50	--	--	--	--	--
	5/3/1996	25.47	60.03	94	--	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	Other SVOCs →
MW-8	8/8/1996	26.41	59.09	250	--	--	--	--	--
85.50	11/5/1996	26.77	58.73	<50	--	--	--	--	--
(cont'd)	2/6/1997	25.84	59.66	130	--	--	--	--	--
	5/9/1997	26.39	59.11	120	--	--	--	--	--
	8/7/1997	26.72	58.78	150	--	--	--	--	--
	11/5/1997	26.82	58.68	110	--	--	--	--	--
	2/9/1998	25.57	59.93	75	--	--	--	--	--
	5/1/1998	25.64	59.86	210	--	--	--	--	--
	8/5/1998	25.96	59.54	260	--	--	--	--	--
	11/3/1998	26.27	59.23	190	--	--	--	--	--
	3/31/1999	20.93	64.57	200	--	--	--	--	--
	7/1/1999	26.59	58.91	170	--	--	<9.6	<9.6	ND
	9/21/1999	26.89	58.61	420	--	--	<9.4	<9.4	ND
	2/9/2000	26.60	58.90	--	120	280	<10	<10	ND
	5/31/2000	26.16	59.34	--	160 **	<500	--	--	--
	11/14/2000	26.60	58.90	--	150	<250	--	--	--
	3/1/2001	26.41	59.09	--	54	<250	<10	<10	Phenol: 25
	5/7/2001	26.55	58.95	--	<50	<250	--	--	--
	8/1/2001	26.71	58.79	--	58	<250	--	--	--
	11/5/2001	26.67	58.83	--	84	<250	--	--	--
	2/13/2002	26.15	59.35	--	83	<250	--	--	--
	5/2/2002	26.63	58.87	--	<50	<250	--	--	--
	8/4/2002	26.80	58.70	--	260	<250	--	--	--
MW-9	11/24/1992	23.51	66.86	320	--	--	--	--	--
90.37	4/5/1993	21.14	69.23	920	--	--	--	--	--
	7/21/1993	21.54	68.83	450	--	--	--	--	--
	11/10/1993	27.53	62.84	450	--	--	--	--	--
	8/30/1995	19.59	70.78	680	--	--	--	--	--
	12/4/1995	20.65	69.72	--	--	--	--	--	--
	5/2/1996	18.63	71.74	710	--	--	--	--	--
	11/5/1996	20.69	69.68	420	--	--	--	--	--
	5/9/1997	19.96	70.41	490	--	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene µg/l	Other SVOCs →
MW-9	8/8/1997	20.84	69.53	480	--	--	--	--	--
90.37	11/5/1997	21.55	68.82	370	--	--	--	--	--
(cont'd)	2/9/1998	20.21	70.16	410	--	--	--	--	--
	5/1/1998	19.27	71.10	450	--	--	--	--	--
	8/5/1998	19.35	71.02	630	--	--	--	--	--
	11/2/1998	20.43	69.94	500	--	--	--	--	--
	3/25/1999	18.46	71.91	630	--	--	--	--	--
	7/1/1999	19.95	70.42	570	--	--	<9.5	<9.5	ND
	9/21/1999	21.15	69.22	770	--	--	<9.4	<9.4	ND
	2/9/2000	21.08	69.29	--	320	<250	<10	<10	ND
	5/31/2000	19.11	71.26	--	390 **	<500	--	--	--
	11/14/2000	20.90	69.47	--	160	<250	--	--	--
	3/1/2001	20.45	69.92	--	220	<250	<10	<10	ND
	5/7/2001	19.83	-19.83	--	290	<250	--	--	--
	8/1/2001	20.02	70.35	--	460	<250	--	--	--
	11/5/2001	19.85	70.52	--	230	<250	--	--	--
	2/13/2002	19.80	70.57	--	210	<250	--	--	--
	5/2/2002	19.93	70.44	--	250	<250	--	--	--
	8/4/2002	20.20	70.17	--	300	<250	--	--	--
MW-10	10/12/1992	21.55	67.05	--	--	--	--	--	--
88.60	11/24/1992	21.86	66.74	1,300	--	--	--	--	--
	4/5/1993	19.14	69.46	5,000	--	--	--	--	--
	7/21/1993	19.79	68.81	20,000	--	--	--	--	--
	8/30/1995	17.99	70.61	5,900	--	--	--	--	--
	5/3/1996	17.04	71.56	5,600	--	--	--	--	--
	5/9/1997	18.36	70.24	2,500	--	--	--	--	--
	5/1/1998	15.84	72.76	2,000	--	--	--	--	--
MW-11	11/24/1992	33.65	68.41	220	--	--	--	--	--
102.06	12/8/92*	33.37	68.69	140	--	--	--	--	--
	12/8/1992	33.37	68.69	120	--	--	--	--	--
	4/5/1993	31.03	71.03	<50	--	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs
 Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene μg/l	Other SVOCs →
MW-11	7/21/1993	31.90	70.16	150	--	--	--	--	--
102.06	11/9/1993	32.60	69.46	60	--	--	--	--	--
(cont'd)	8/30/1995	28.92	73.14	240	--	--	--	--	--
	5/3/1996	28.00	74.06	<50	--	--	--	--	--
	5/8/1997	29.93	72.13	<50	--	--	--	--	--
	4/29/1998	27.22	74.84	<47	--	--	--	--	--
MW-13	11/24/1992	26.05	58.01	3,600	--	--	--	--	--
84.06	12/8/92*	25.08	58.98	210	--	--	--	--	--
	12/8/1992	25.08	58.98	100	--	--	--	--	--
	4/5/1993	24.64	59.42	<50	--	--	--	--	--
	7/21/1993	24.29	59.77	<50	--	--	--	--	--
	11/9/1993	24.23	59.83	160	--	--	--	--	--
	8/30/1995	23.30	60.76	<50	--	--	--	--	--
	12/1/1995	23.80	60.26	<50	--	--	--	--	--
	5/3/1996	23.19	60.87	<50	--	--	--	--	--
	8/8/1996	23.44	60.62	<50	--	--	--	--	--
	11/5/1996	24.04	60.02	<50	--	--	--	--	--
	2/6/1997	23.24	60.82	<50	--	--	--	--	--
	5/8/1997	23.46	60.60	<50	--	--	--	--	--
	8/8/1997	23.92	60.14	<50	--	--	--	--	--
	11/5/1997	24.27	59.79	<50	--	--	--	--	--
	2/9/1998	22.89	61.17	<50	--	--	--	--	--
	4/29/1998	22.27	61.79	<47	--	--	--	--	--
	8/4/1998	22.75	61.31	78	--	--	--	--	--
	11/3/1998	23.90	60.16	<50	--	--	--	--	--
	3/31/1999	23.11	60.95	<48	--	--	--	--	--
	7/1/1999	23.40	60.66	100	--	--	<9.6	<9.6	ND
	9/21/1999	21.91	62.15	<48	--	--	<9.4	<9.4	ND
	2/9/2000	23.84	60.22	--	<50	<250	<10	<10	ND

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene μg/l	Other SVOCs →
MW-13	5/31/2000	22.97	61.09	--	<50	<500	--	--	--
84.06	11/14/2000	24.00	60.06	--	65	< 250	--	--	--
(cont'd)	3/1/2001	23.93	60.13	--	<50	<250	<10	<10	ND
	5/7/2001	23.93	60.13	--	<50	<250	--	--	--
	8/1/2001	24.10	59.96	--	<50	<250	--	--	--
	11/5/2001	24.02	60.04	--	350	610	--	--	--
	2/13/2002	23.70	60.36	--	<50	<250	--	--	--
	5/2/2002	23.97	60.09	--	<50	<250	--	--	--
	8/4/2002	24.19	59.87	--	810	310	--	--	--
MW-14	5/26/1998	21.67	72.99	7,700	--	--	--	--	--
94.66	7/1/1999	22.95	71.71	SPH	--	--	--	--	--
	9/21/1999	24.26	70.40	SPH	--	--	--	--	--
	2/9/2000	24.13	70.53	--	14,000	1,500	290	600	ND
	5/31/2000	22.09	72.57	--	SPH	--	--	--	--
	11/14/2000	23.90	70.76	--	SPH	--	--	--	--
	3/1/2001	23.97	70.69	--	SPH	--	--	--	--
	5/7/2001	23.45	71.23	--	SPH	--	--	--	--
	8/1/2001	23.57	71.12	--	SPH	--	--	--	--
	11/5/2001	23.50	71.18	--	SPH	--	--	--	--
	2/13/2002	22.99	71.70	--	SPH (0.04)	--	--	--	--
	5/2/2002	23.51	71.17	--	SPH (0.02)	--	--	--	--
	8/4/2002	23.61	71.06	--	SPH (0.01)	--	--	--	--

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Table 2. Groundwater Elevation and Analytical Data: Extractable Hydrocarbons and SVOCs

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Sampling Date	Depth to water <i>(ft)</i>	Groundwater Elevation <i>(ft)</i>	TEH ←	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene <i>µg/l</i>	Other SVOCs →
MW-15	5/26/1998	21.87	72.89	1,700	--	--	--	--	--
94.76	7/1/1999	22.25	72.51	SPH	--	--	--	--	--
	9/21/1999	24.12	70.64	SPH	--	--	--	--	--
	2/9/2000	24.42	70.34	--	4,000	1,200	50	270	ND
	5/31/2000	22.40	72.36	--	SPH	--	--	--	--
	11/14/2000	24.15	70.61	--	SPH	--	--	--	--
	3/1/2001	23.99	70.77	--	SPH	--	--	--	--
	5/7/2001	23.50	71.26	--	SPH	--	--	--	--
	8/1/2001	23.62	71.14	--	SPH	--	--	--	--
	11/5/2001	23.65	71.11	--	SPH (sheen)	--	--	--	--
	2/13/2002	23.09	71.67	--	3,100	<250	17	68	Benzoic Acid: 74; m &/or p-Creosol: 68
	5/2/2002	23.59	71.17	--	SPH (sheen)	--	--	--	--
	8/4/2002	23.65	71.11	--	SPH (sheen)	--	--	--	--

Abbreviations and Notes:

TOC Elev. (ft) = Top of casing elevation, surveyed to an arbitrary datum

TEH = Total extractable hydrocarbons

TPHd = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

SVOCs = Semi-volatile organic compounds

Other SVOC's = All other compounds analyzed by EPA Method 8270

µg/l = micrograms per liter = parts per billion = ppb

ND = None detected above laboratory reporting limit, see laboratory report for individual reporting limits

< n = Not detected above n ug/l

-- = Not analyzed/not available

* = Duplicate sample sent to a different chemical laboratory

** = Does not match diesel pattern

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Table 3. LUFT Metals in Groundwater

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling Date	Cadmium	Chromium	Lead	Nickel	Zinc
		-----ug/l-----				
MW-4	7/1/1999	<5	<10	59	<20	<20
	9/21/1999	<5	<10	66	<20	33
	2/9/2000	<5	17	68	<50	<50
MW-7	7/1/1999	<5	<10	<3	<20	<20
	9/21/1999	<5	<10	<3	<20	<20
	2/9/2000	<5	14	8.6	59	<50
MW-8	7/1/1999	<5	<10	<3	<20	<20
	9/21/1999	<5	<10	<3	<20	<20
	2/9/2000	<5	<5	<5	<50	<50
MW-9	7/1/1999	<5	<10	<3	34	<20
	9/21/1999	<5	<10	<3	25	37
	2/9/2000	<5	82	29	160	130
	3/1/2001	<5	47	<5	72	<50
	5/7/2001	<5	49	<5	<50	<50
	8/1/2001	<5	<20	<5	<50	<50
	2/13/2002	<5	--	<5	<50	<50
MW-13	7/1/1999	<5	<10	<3	<20	<20
	9/21/1999	<5	<10	<3	<20	<20
	2/9/2000	<5	12	15	<50	<50
MW-14	2/9/2000	<5	210	24	2,500	280
MW-15	2/9/2000	<5	140	1,800	220	150
	2/13/2002	<5	--	<5	<50	<50

Abbreviations and Notes:

LUFT metals analyzed by EPA Method 6010

ug/l = micrograms per liter

-- = Not analyzed/not available

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Table 4. Liquid-Phase Hydrocarbon Removal
Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Sampling Date	Depth to Water <i>(ft)</i>	LPH Thickness <i>(ft)</i>	Hydrocarbons Removed <i>(gallons)</i>	Hydrocarbons Removed <i>(lbs)</i>	Cumulative Hydrocarbons Removed <i>(lbs)</i>	Notes
MW-1	12/23/1991	26.86	1.15	2.00	12.20	12.20	1
94.48	12/26/1991	26.08	0.22	0.50	3.05	15.25	1
	1/13/1992	26.53	0.66	1.00	6.10	21.35	1
	2/28/1992	27.75	0.42	2.00	12.20	33.55	1
	11/9/1993	26.06	1.17	0.50	3.05	36.60	1
	11/3/1995	23.10	0.76	0.75	4.58	41.18	1
	11/30/1995	23.38	0.70	0.25	1.53	42.70	1
	1/3/1996	23.30	0.78	0.53	3.23	45.93	1
	2/2/1996	22.96	0.84	0.75	4.58	50.51	1
	3/1/1996	21.69	0.14	0.10	0.61	51.12	1
	4/4/1996	21.11	0.00	0.00	0.00	51.12	1
	5/2/1996	20.96	0.00	0.00	0.00	51.12	1
	6/5/1996	20.98	0.04	0.10	0.61	51.73	1
	7/9/1996	21.64	0.20	0.10	0.61	52.34	1
	8/8/1996	22.43	0.33	0.05	0.31	52.64	1
	9/10/1996	23.25	0.60	0.10	0.61	53.25	1
	10/1/1996	23.58	0.60	0.25	1.53	54.78	1
	11/4/1996	24.29	0.78	0.13	0.79	55.57	1
	12/2/1996	24.63	0.88	0.26	1.59	57.16	1
	1/3/1997	24.08	0.81	0.39	2.38	59.54	1
	2/6/1997	22.46	0.30	0.01	0.06	59.60	1
	3/5/1997	23.00	0.00	0.00	0.00	59.60	1
	4/1/1997	22.29	0.20	0.01	0.06	59.66	1
	5/8/1997	22.79	0.33	0.02	0.12	59.78	1
	6/6/1997	24.33	1.69	0.26	1.59	61.37	1
	7/8/1997	24.00	0.96	0.20	1.22	62.59	1
	8/7/1997	24.58	1.29	1.00	6.10	68.69	1
	9/10/1997	24.93	1.21	1.50	9.15	77.84	1
	10/1/1997	24.89	0.86	0.26	1.59	79.42	1
	11/4/1997	25.06	0.77	0.26	1.59	81.01	1
	12/4/1997	24.76	0.54	0.19	1.16	82.17	1
	1/8/1998	23.66	0.00	0.00	0.00	82.17	1
	2/5/1998	22.64	0.00	0.00	0.00	82.17	1
	3/6/1998	20.80	0.00	0.00	0.00	82.17	1
	4/2/1998	20.31	0.00	0.00	0.00	82.17	1
	4/29/1998	19.95	0.00	0.00	0.00	82.17	1
	6/3/1998	20.41	0.00	0.00	0.00	82.17	1
	7/9/1998	20.97	0.07	0.00	0.00	82.17	1
	8/4/1998	21.40	trace	trace	0.00	82.17	1
	8/26/1998	21.85	0.10	trace	0.00	82.17	1
	11/2/1998	22.92	0.39	trace	0.00	82.17	1
	12/4/1998	23.29	0.29	0.01	0.06	82.23	1

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Table 4. Liquid-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-1	1/5/1999	23.51	0.42	0.03	0.18	82.41	1
(cont'd)	2/8/1999	23.08	0.05	0.25	1.53	83.94	1
	3/24/1999	21.90	0.01	0.01	0.06	84.00	1
	4/30/1999	21.52	0.00	0.00	0.00	84.00	1
	7/1/1999	22.70	0.03	0.01	0.06	84.06	1
	9/21/1999	23.81	0.08	0.20	1.22	85.28	1
	10/20/1999	23.90	0.10	0.01	0.06	85.34	1
	12/13/1999	24.24	trace	0.00	0.00	85.34	1
	2/9/2000	23.95	0.07	0.05	0.31	85.64	1
	2/15/2000	--	0.00	0.00	0.00	85.64	2
	2/25/2000	23.69	0.00	0.06	0.38	86.03	2
	3/3/2000	23.27	0.00	0.05	0.31	86.33	2
	3/28/2000	22.39	0.00	0.13	0.79	87.12	2
	5/2/2000	22.29	0.00	0.05	0.29	87.41	2
	5/31/2000	22.05	0.00	0.00	0.00	87.41	2
	7/3/2000	22.10	trace	0.02	0.12	87.53	2
	8/4/2000	22.40	0.00	0.01	0.06	87.59	2
	10/6/2000	23.47	0.46	0.01	0.06	87.65	1
	11/3/2000	24.14	0.78	0.00	0.00	87.65	
	12/1/2000	25.40	0.83	1.75	10.50	98.15	1,2
	1/4/2001	25.13	0.09	0.25	1.53	99.68	2
	2/2/2001	25.12	0.03	0.13	0.79	100.47	2
	4/3/2001	23.19	0.24	0.10	0.61	101.08	
	5/4/2001	23.31	0.47	0.00	0.00	101.08	
	5/7/2001	23.85	0.05	0.03	0.16	101.24	2
	6/11/2001	23.77	0.67	0.00	0.00	101.24	2
	5/2/2002	23.41	0.46	0.01	0.04	101.28	
	6/14/2002	23.95	0.03	0.01	0.04	101.32	2
	8/4/2002	24.02	0.03	0.01	0.06	101.39	2
MW-4	12/23/1991	22.63	0.98	2.50	15.25	15.25	1
88.84	12/26/1991	22.52	0.96	6.00	36.60	51.85	1
	1/10/1992	22.74	0.99	5.00	30.50	82.35	1
	2/28/1992	22.00	0.67	4.00	24.40	106.75	1
	3/11/1992	21.71	0.55	3.50	21.35	128.10	1
	3/13/1992	21.56	0.49	3.50	21.35	149.45	1
	3/17/1992	25.46	0.44	2.25	13.73	163.18	1
	3/18/1992	21.38	0.44	2.50	15.25	178.43	1
	3/19/1992	21.33	0.48	1.50	9.15	187.58	1
	3/23/1992	21.29	0.42	4.00	24.40	211.98	1
	3/24/1992	21.31	0.38	1.50	9.15	221.13	1
	3/25/1992	21.17	0.36	1.00	6.10	227.23	1

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Table 4. Liquid-Phase Hydrocarbon Removal
Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-4	3/26/1992	21.08	0.35	1.00	6.10	233.33	1
(cont'd)	3/27/1992	20.92	0.26	0.50	3.05	236.38	1
	3/31/1992	21.15	0.44	0.50	3.05	239.43	1
	4/1/1992	20.90	0.24	0.25	1.53	240.95	1
	4/2/1992	20.90	0.17	0.13	0.79	241.74	1
	4/6/1992	--	--	0.13	0.79	242.54	1
	4/10/1992	20.91	0.33	0.25	1.53	244.06	1
	4/13/1992	21.04	0.42	0.25	1.53	245.59	1
	4/20/1992	20.74	0.19	0.13	0.79	246.38	1
	5/4/1992	20.83	0.33	0.13	0.79	247.17	1
	5/18/1992	21.33	0.23	0.13	0.79	247.97	1
	5/26/1992	20.83	0.17	0.13	0.79	248.76	1
	6/1/1992	20.85	0.19	0.06	0.37	249.12	1
	6/29/1992	21.38	0.53	0.25	1.53	250.65	1
	7/29/1992	21.69	0.56	1.11	6.77	257.42	1
	8/28/1992	21.35	0.63	1.68	10.25	267.67	1
	4/3/1993	20.11	0.51	0.13	0.79	268.46	1
	11/9/1993	20.48	0.52	0.03	0.18	268.64	1
	8/30/1995	21.71	0.63	1.75	10.68	279.32	1
	10/2/1995	19.90	2.20	0.50	3.05	282.37	1
	11/3/1995	18.76	0.57	0.25	1.53	283.89	1
	11/30/1995	19.17	0.65	0.25	1.53	285.42	1
	1/3/1996	19.45	0.44	0.05	0.31	285.72	1
	2/2/1996	19.50	0.32	0.10	0.61	286.33	1
	3/1/1996	19.31	0.20	0.20	1.22	287.55	1
	4/4/1996	17.53	0.18	0.20	1.22	288.77	1
	5/2/1996	17.50	0.25	0.20	1.22	289.99	1
	6/5/1996	17.67	0.39	0.15	0.92	290.91	1
	7/9/1996	18.29	0.50	0.16	0.98	291.89	1
	8/8/1996	18.84	0.00	0.00	0.00	291.89	1
	9/10/1996	19.31	0.34	0.05	0.31	292.19	1
	10/1/1996	19.51	0.29	0.05	0.31	292.50	1
	11/4/1996	20.13	0.35	0.02	0.12	292.62	1
	12/2/1996	20.23	0.33	0.02	0.12	292.74	1
	1/3/1997	19.33	0.10	0.02	0.12	292.86	1
	2/6/1997	18.13	0.01	0.01	0.06	292.92	1
	4/30/1999	17.28	trace	0.00	0.00	292.92	1
	2/9/2000	19.76	0.00	0.00	0.00	292.92	1
	2/15/2000	--	0.00	0.00	0.00	292.92	2
	2/25/2000	19.30	0.00	0.00	0.00	292.92	2

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Table 4. Liquid-Phase Hydrocarbon Removal
Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID <i>TOC Elev.</i> <i>(ft)</i>	Sampling Date	Depth to Water <i>(ft)</i>	LPH Thickness <i>(ft)</i>	Hydrocarbons Removed <i>(gallons)</i>	Hydrocarbons Removed <i>(lbs)</i>	Cumulative Hydrocarbons Removed <i>(lbs)</i>	Notes
MW-6	12/23/1991	28.40	3.21	7.50	45.75	45.75	1
85.62	12/26/1991	27.25	1.67	2.00	12.20	57.95	1
	1/10/1992	27.23	0.90	1.00	6.10	64.05	1
	2/4/1992	27.71	2.04	2.00	12.20	76.25	1
	2/28/1992	27.92	3.00	3.00	18.30	94.55	1
	3/10/1992	27.16	2.06	2.75	16.78	111.33	1
	3/12/1992	25.96	0.52	2.00	12.20	123.53	1
	3/23/1992	26.34	1.09	1.00	6.10	129.63	1
	3/30/1992	25.73	0.35	0.50	3.05	132.68	1
	4/10/1992	25.29	0.05	0.25	1.53	134.20	1
	4/13/1992	25.52	0.21	0.13	0.79	134.99	1
	4/20/1992	25.38	0.10	0.13	0.79	135.79	1
	5/4/1992	25.40	--	0.13	0.79	136.58	1
	5/8/1992	25.50	0.17	0.06	0.37	136.95	1
	5/26/1992	25.46	0.13	0.13	0.79	137.74	1
	6/1/1992	25.46	0.09	0.06	0.37	138.10	1
	6/29/1992	25.59	0.14	0.19	1.16	139.26	1
	7/29/1992	26.90	1.71	0.60	3.66	142.92	1
	8/28/1992	25.09	2.62	2.40	14.64	157.56	1
	12/2/1992	--	--	0.00	0.00	157.56	1
	4/3/1993	26.96	2.86	1.75	10.68	168.24	1
	11/9/1993	27.51	3.06	0.83	5.06	173.30	1
	8/30/1995	28.00	7.96	4.50	27.45	200.75	1
	10/2/1995	28.24	6.14	4.00	24.40	225.15	1
	11/3/1995	28.39	6.13	3.00	18.30	243.45	1
	11/30/1995	26.91	3.44	2.50	15.25	258.70	1
	1/3/1996	27.58	4.41	2.50	15.25	273.95	1
	2/2/1995	27.58	4.37	5.00	30.50	304.45	1
	3/1/1996	27.96	5.15	4.00	24.40	328.85	1
	4/4/1996	27.96	5.41	5.00	30.50	359.35	1
	5/2/1996	26.83	4.66	4.50	27.45	386.80	1
	6/5/1996	27.15	5.17	4.00	24.40	411.20	1
	7/9/1996	27.08	4.86	4.50	27.45	438.65	1
	8/8/1996	26.71	4.05	4.00	24.40	463.05	1
	9/10/1996	26.83	3.82	3.50	21.35	484.40	1
	10/1/1996	26.96	3.77	4.00	24.40	508.80	1
	11/4/1996	--	--	NM	NM	NM	4
86.94	12/2/1996	--	--	NM	NM	NM	4
	1/3/1997	--	--	NM	NM	NM	4
	2/6/1997	25.08	0.20	NM	NM	NM	4

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Table 4. Liquid-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling	Depth to	LPH	Hydrocarbons	Hydrocarbons	Cumulative	Notes
TOC Elev.	Date	Water	Thickness	Removed	Removed	Hydrocarbons	
(ft)		(ft)	(ft)	(gallons)	(lbs)	Removed (lbs)	
MW-6	3/5/1997	24.20	0.00	NM	NM	NM	4
(cont'd)	4/1/1997	24.04	0.00	NM	NM	NM	4
85.82	5/8/1997	26.54	1.88	0.40	2.44	511.24	1
	6/6/1997	25.33	0.21	0.03	0.18	511.42	1
	7/8/1997	25.30	0.07	0.00	0.00	511.42	1
	8/7/1997	25.52	0.00	0.00	0.00	511.42	1
	9/10/1997	25.76	0.00	0.00	0.00	511.42	1
	10/1/1997	25.12	0.00	0.00	0.00	511.42	1
	11/4/1997	26.16	0.18	0.02	0.12	511.55	1
	12/4/1997	26.08	0.16	0.05	0.31	511.85	1
	1/8/1998	25.79	0.10	0.66	4.03	515.88	1
	2/5/1998	25.31	0.89	NM	NM	NM	4
	3/6/1998	24.63	0.46	0.04	0.24	516.12	1
	4/2/1998	24.45	0.59	0.10	0.61	516.73	1
	4/29/1998	22.96	0.55	0.09	0.55	517.28	1
	6/3/1998	22.81	0.41	0.03	0.18	517.46	1
	7/9/1998	23.04	0.35	0.05	0.31	517.77	1
	8/4/1998	23.29	0.35	0.04	0.24	518.01	1
	8/26/1998	23.50	0.31	0.01	0.06	518.07	1
	11/2/1998	24.24	0.43	0.02	0.12	518.20	1
	12/4/1998	24.35	0.32	0.01	0.06	518.26	1
	1/5/1999	24.51	0.40	0.03	0.18	518.44	1
	2/8/1999	24.00	0.03	0.13	0.76	519.20	1
	3/24/1999	23.82	0.19	0.03	0.18	519.38	1
	4/30/1999	23.60	1.13	0.10	0.61	519.99	1
	7/1/1999	24.45	0.42	0.06	0.38	520.38	1
	7/27/1999	25.35	0.24	0.06	0.38	520.76	1
	8/19/1999	24.87	0.24	0.06	0.37	521.12	1
	9/21/1999	24.58	0.10	0.20	1.22	522.34	1
	10/20/1999	25.05	0.17	0.20	1.22	523.56	1
	12/13/1999	25.08	0.10	0.06	0.37	523.93	1
	2/9/2000	24.93	0.44	0.25	1.53	525.45	1
	2/15/2000	--	0.00	0.07	0.43	525.88	3
	2/25/2000	24.23	0.00	0.01	0.06	525.94	3
	3/3/2000	24.00	0.00	0.00	0.01	525.95	3
	3/28/2000	23.54	0.00	0.05	0.31	526.26	3
	5/2/2000	23.52	0.06	0.03	0.15	526.41	3
85.82	5/31/2000	23.39	0.08	0.00	0.00	526.41	3
	7/3/2000	23.61	trace	0.02	0.12	526.53	3
	8/4/2000	23.80	0.10	0.01	0.06	526.59	3
	10/6/2000	24.22	0.04	0.01	0.06	526.65	
	11/3/2000	24.30	0.09	0.00	0.00	526.65	
	12/1/2000	24.38	0.07	0.03	0.18	526.83	2, 3

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Table 4. Liquid-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID TOC Elev. (ft)	Sampling Date	Depth to Water (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
MW-6	1/4/2001	24.65	0.17	0.00	0.00	526.83	5
(cont'd)	2/2/2001	24.72	0.22	0.25	1.53	528.36	3
	4/3/2001	23.90	0.06	0.05	0.31	528.67	
	5/4/2001	23.95	0.07	0.05	0.31	528.97	
	5/7/2001	--	--	0.08	0.48	529.45	
	6/11/2001	24.25	0.10	0.00	0.00	529.45	
	5/2/2002	23.25	0.01	0.00	0.02	529.47	2
	6/14/2002	23.17	0.07	0.01	0.04	529.51	1
	8/4/2002	23.55	0.03	0.01	0.06	529.57	1
MW-9 90.37	8/8/1996	19.89	0.35	0.10	0.61	0.61	1
MW-14 94.66	12/4/1998	23.42	0.23	0.01	0.06	0.06	1
	1/5/1999	23.36	0.12	0.01	0.06	0.12	1
	2/8/1999	23.17	trace	0.01	0.06	0.18	1
	3/24/1999	22.08	trace	trace	0.00	0.18	1
	4/30/1999	21.17	0.01	trace	0.00	0.18	1
	7/1/1999	22.95	0.04	trace	0.00	0.18	1
	9/21/1999	24.26	trace	trace	0.00	0.18	1
	10/20/1999	24.10	0.00	0.00	0.00	0.18	1
	2/9/2000	24.13	0.00	0.00	0.00	0.18	1
	2/15/2000	--	0.00	0.00	0.00	0.18	1
	2/25/2000	--	0.00	0.00	0.00	0.18	2
	3/3/2000	23.27	0.00	0.05	0.31	0.49	2
	3/28/2000	22.40	0.00	0.13	0.76	1.25	2
	5/2/2000	22.22	0.00	0.04	0.24	1.49	2
	5/31/2000	22.09	0.00	0.00	0.00	1.49	2
	7/3/2000	22.35	trace	0.01	0.06	1.55	2
	8/4/2000	22.78	0.00	0.03	0.18	1.73	2
	10/6/2000	23.48	0.00	0.00	0.00	1.73	
	11/3/2000	23.60	0.00	0.00	0.00	1.73	
	12/1/2000	23.90	0.04	0.04	0.24	1.97	1, 2
	1/4/2001	24.10	0.00	0.00	0.00	1.97	
	2/2/2001	24.27	0.00	0.10	0.61	2.58	2
94.66	4/3/2001	23.06	0.00	0.05	0.31	2.89	
	5/4/2001	23.05	0.00	0.00	0.00	2.89	
	5/7/2001	23.45	0.02	0.01	0.05	2.93	2
	6/11/2001	23.40	0.00	0.00	0.00	2.93	
	5/2/2002	23.51	0.02	0.003	0.02	2.95	2
	6/14/2002	23.88	0.01	0.003	0.02	2.97	2
	8/4/2002	23.61	0.01	0.004	0.02	2.99	2

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Table 4. Liquid-Phase Hydrocarbon Removal

Connell Automobile Dealership, 3093 Broadway, Oakland, California

Well ID	Sampling	Depth to	LPH	Hydrocarbons	Hydrocarbons	Cumulative	Notes
<i>TOC Elev.</i>	<i>Date</i>	<i>Water</i>	<i>Thickness</i>	<i>Removed</i>	<i>Removed</i>	<i>Hydrocarbons</i>	
<i>(ft)</i>		<i>(ft)</i>	<i>(ft)</i>	<i>(gallons)</i>	<i>(lbs)</i>	<i>Removed (lbs)</i>	
MW-15	9/20/1999	24.12	trace	trace	0.00	0.00	1
94.76	10/20/1999	24.40	0.00	0.00	0.00	0.00	1
	12/13/1999	24.61	0.00	0.00	0.00	0.00	1

Abbreviations and Notes:

TOC Elev. (ft) = Top of casing elevation, surveyed to an arbitrary datum

-- = Not measured or not applicable

NM = Not Measured. Product was being removed by vapor extraction at time of measurement.

1 = LPH removed by manual bailing

2 = LPH removed from well by absorbent sock

3 = LPH removed from well by passive skimmer

4 = vapor extraction system operating in well

5 = No product removed; skimmer adjusted incorrectly and filled with water.

Liquid-phase hydrocarbons (LPH) converted from volume to weight using the relation 1 gallon LPH= 6.1 pounds.

C A M B R I A



ATTACHMENT A
Well Sampling Protocol

ATTACHMENT A

Well Sampling Protocol

Well Sampling Protocol - May 8, 2000 Workplan Addendum			
Well	Gauging Frequency	Sampling Frequency	Analytes
Source Area Wells			
MW-1	Quarterly	Annually (1st Qtr)	TPHd, TPHmo, TPHg, BTEX, MTBE, HVOCs, DO (SVOCs, LUFT Metals also)
MW-6			
MW-14			
MW-15			
Down-Gradient/Cross-Gradient Wells			
MW-4	Quarterly	Quarterly	TPHd, TPHmo, TPHg, BTEX, MTBE, HVOCs, DO (SVOCs and LUFT Metals- 1 st qtr only)
MW-7			
MW-8			
MW-9			
MW-13			
<p>1. Per the May 3, 1999, ACHCSA letter to Messrs. Hill and Linden, monitoring wells MW-2, MW-3, MW-5, MW-10, and MW-11 were dropped from the monitoring program.</p> <p>2. To simplify the protocol, LUFT Metals will be analyzed annually (first quarter) for all sampled wells.</p>			

C A M B R I A



ATTACHMENT B

Analytical Laboratory Report



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
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Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #425-1580; Connell	Date Sampled: 08/04/02
		Date Received: 08/07/02
	Client Contact: Mary Holland Ford	Date Reported: 08/14/02
	Client P.O.:	Date Completed: 08/14/02

August 14, 2002

Dear Mary:

Enclosed are:

- 1). the results of **5** samples from your **#425-1580; Connell 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



Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #425-1580; Connell	Date Sampled: 08/04/02
		Date Received: 08/07/02
	Client Contact: Mary Holland Ford	Date Extracted: 08/10/02
	Client P.O.:	Date Analyzed: 08/10/02

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0208107

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-4	W	92,000,a,h	ND<2000	9200	15,000	1800	10,000	100	102
002A	MW-8	W	120,a	ND	2.4	0.77	ND	ND	1	104
003A	MW-7	W	ND	ND	ND	ND	ND	ND	1	97.5
004A	MW-9	W	1200,a	ND<10	130	2.5	50	0.58	2	113
005A	MW-13	W	ND	ND	ND	ND	ND	ND	1	99.5

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	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	NA	1	mg/Kg

*water and vapor samples are reported in ug/L, soil and sludge samples in mg/kg, wipe samples in ug/wipe, product/oil/non-aqueous liquid samples in mg/L, and TCLP extracts in ug/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); 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 ~2 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.



Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #425-1580; Connell	Date Sampled: 08/04/02
		Date Received: 08/07/02
	Client Contact: Mary Holland Ford	Date Extracted: 08/07/02
	Client P.O.:	Date Analyzed: 08/08/02-08/09/02

Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0208107

Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0208107-001C	MW-4	W	58,000,d,h	ND<25,000	100	---#
0208107-002C	MW-8	W	260,b	ND	1	85.7
0208107-003C	MW-7	W	ND	ND	1	99.8
0208107-004C	MW-9	W	300,d	ND	1	102
0208107-005C	MW-13	W	810	310	1	98.4

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

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

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+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 diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent.



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Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #425-1580; Connell	Date Sampled: 08/04/02
		Date Received: 08/07/02
	Client Contact: Mary Holland Ford	Date Extracted: 08/13/02
	Client P.O.:	Date Analyzed: 08/13/02

Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8021B

Work Order: 0208107

Lab ID	0208107-001B	0208107-002B	0208107-003B	0208107-004B	Reporting Limit for DF = 1	
Client ID	MW-4	MW-8	MW-7	MW-9	S	W
Matrix	W	W	W	W		
DF	50	5	1	20		
Compound	Concentration				ug/kg	µg/L
Bromodichloromethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
Bromoform	ND<25	ND<2.5	ND	ND<10	NA	0.5
Bromomethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
Carbon Tetrachloride	ND<25	ND<2.5	ND	ND<10	NA	0.5
Chlorobenzene	ND<25	ND<2.5	ND	ND<10	NA	0.5
Chloroethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
2-Chloroethyl vinyl ether	ND<25	ND<2.5	ND	ND<10	NA	0.5
Chloroform	ND<25	ND<2.5	ND	ND<10	NA	0.5
Chloromethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
Dibromochloromethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,2-Dichlorobenzene	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,3-Dichlorobenzene	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,4-Dichlorobenzene	ND<25	ND<2.5	ND	ND<10	NA	0.5
Dichlorodifluoromethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,1-Dichloroethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,2-Dichloroethane	44	44	ND	360	NA	0.5
1,1-Dichloroethene	ND<25	ND<2.5	ND	ND<10	NA	0.5
cis-1,2-Dichloroethene	ND<25	ND<2.5	ND	ND<10	NA	0.5
trans-1,2-Dichloroethene	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,2-Dichloropropane	ND<25	ND<2.5	ND	ND<10	NA	0.5
cis-1,3-Dichloropropene	ND<25	ND<2.5	ND	ND<10	NA	0.5
trans-1,3-Dichloropropene	ND<25	ND<2.5	ND	ND<10	NA	0.5
Methylene chloride	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,1,2,2-Tetrachloroethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
Tetrachloroethene	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,1,1-Trichloroethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
1,1,2-Trichloroethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
Trichloroethene	ND<25	ND<2.5	ND	ND<10	NA	0.5
Trichlorofluoromethane	ND<25	ND<2.5	ND	ND<10	NA	0.5
Vinyl Chloride	ND<25	ND<2.5	ND	ND<10	NA	0.5

Surrogate Recoveries (%)

%SS:	99.2	98.6	98.7	99.2
Comments	h			

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



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Cambria Env. Technology 6262 Hollis St. Emeryville, CA 94608	Client Project ID: #425-1580; Connell	Date Sampled: 08/04/02
		Date Received: 08/07/02
	Client Contact: Mary Holland Ford	Date Extracted: 08/13/02
	Client P.O.:	Date Analyzed: 08/13/02

Halogenated Volatile Organics by P&T and GC-ELCD (8010 Basic Target List)*

Extraction Method: SW5030B

Analytical Method: SW8021B

Work Order: 0208107

Lab ID	0208107-005B				Reporting Limit for DF = 1	
Client ID	MW-13				S	W
Matrix	W					
DF	1					
Compound	Concentration				ug/kg	ug/L
Bromodichloromethane	ND				NA	0.5
Bromoform	ND				NA	0.5
Bromomethane	ND				NA	0.5
Carbon Tetrachloride	ND				NA	0.5
Chlorobenzene	ND				NA	0.5
Chloroethane	ND				NA	0.5
2-Chloroethyl vinyl ether	ND				NA	0.5
Chloroform	ND				NA	0.5
Chloromethane	ND				NA	0.5
Dibromochloromethane	ND				NA	0.5
1,2-Dichlorobenzene	ND				NA	0.5
1,3-Dichlorobenzene	ND				NA	0.5
1,4-Dichlorobenzene	ND				NA	0.5
Dichlorodifluoromethane	ND				NA	0.5
1,1-Dichloroethane	ND				NA	0.5
1,2-Dichloroethane	ND				NA	0.5
1,1-Dichloroethene	ND				NA	0.5
cis-1,2-Dichloroethene	ND				NA	0.5
trans-1,2-Dichloroethene	ND				NA	0.5
1,2-Dichloropropane	ND				NA	0.5
cis-1,3-Dichloropropene	ND				NA	0.5
trans-1,3-Dichloropropene	ND				NA	0.5
Methylene chloride	ND				NA	0.5
1,1,2,2-Tetrachloroethane	ND				NA	0.5
Tetrachloroethene	ND				NA	0.5
1,1,1-Trichloroethane	ND				NA	0.5
1,1,2-Trichloroethane	ND				NA	0.5
Trichloroethene	ND				NA	0.5
Trichlorofluoromethane	ND				NA	0.5
Vinyl Chloride	ND				NA	0.5

Surrogate Recoveries (%)

%SS:	98.1					
Comments						

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0208107

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 3352		Spiked Sample ID: 0208106-002A				
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(gas)	ND	60	98.9	101	1.71	96.7	101	4.43	80	120
MTBE	ND	10	83.8	112	29.2	80.5	82.9	2.98	80	120
Benzene	ND	10	91.7	94.3	2.78	91	94.3	3.57	80	120
Toluene	ND	10	101	102	1.78	97.8	101	3.41	80	120
Ethylbenzene	ND	10	102	105	2.72	101	102	1.39	80	120
Xylenes	ND	30	103	107	3.17	100	103	3.28	80	120
%SS:	97.7	100	96.7	94.5	2.32	98.7	99.6	0.965	80	120

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

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

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.

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

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



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QC SUMMARY REPORT FOR SW8015C

Matrix: W

WorkOrder: 0208107

EPA Method: SW8015C		Extraction: SW3510C			BatchID: 3341		Spiked Sample ID: N/A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	N/A	7500	N/A	N/A	N/A	115	115	0.0791	70	130
%SS:	N/A	100	N/A	N/A	N/A	104	103	0.113	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

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

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.

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

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.



McC Campbell Analytical Inc.

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

QC SUMMARY REPORT FOR SW8021B

Matrix: W

WorkOrder: 0208107

EPA Method: SW8021B		Extraction: SW5030B			BatchID: 3328		Spiked Sample ID: N/A			
Compound	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Chlorobenzene	N/A	10	N/A	N/A	N/A	103	101	1.35	70	130
1,1-Dichloroethene	N/A	10	N/A	N/A	N/A	106	103	2.21	70	130
Trichloroethene	N/A	10	N/A	N/A	N/A	99	93.9	5.23	70	130
%SS:	N/A	100	N/A	N/A	N/A	108	105	2.19	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

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

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.

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

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

McC Campbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0208107

Client:

Cambria Env. Technology
 6262 Hollis St.
 Emeryville, CA 94608

TEL: (510) 450-1983
 FAX: (510) 450-8295
 ProjectNo: #425-1580; Conn
 PO:

07-Aug-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests			
					<>	SW8015C	SW8021B	8021B/8015
0208107-001	MW-4	Water	8/4/02 12:50:00 PM		C	C	B	A
0208107-002	MW-8	Water	8/4/02 12:05:00 PM			C	B	A
0208107-003	MW-7	Water	8/4/02 11:20:00 PM			C	B	A
0208107-004	MW-9	Water	8/4/02 1:25:00 PM			C	B	A
0208107-005	MW-13	Water	8/4/02 10:35:00 AM			C	B	A

Comments:

	Date/Time		Date/Time
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	

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.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

JATE

0208107

McCAMPBELL ANALYTICAL INC.
 110 2nd AVENUE SOUTH, #107
 PACIFIC, CA 94553
 Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD
 TURN AROUND TIME RUSH 24 HOUR 48 HOUR 5 DAY

Report To: Mary Holland Ford Bill To: Camelia Env. Tech
 Company: Camelia Environmental Technology
 6262 Hollis Street
 Emeryville, CA 94608
 Tele: (510)-450-1982 Fax: (510) 450-8295
 Project #: 425-1580 Project Name: Connell
 Project Location: 3093 Broadway, Oakland, Ca
 Sampler Signature: [Signature]

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED		Analysis Request											Other	Comments								
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other																			
MW-4		8-4-02	12:50	7	VOA Amb	X						X	λ	X	X																		
MW-8		8-4-02	12:05	7	VOA Amb	X						X	X	X	X																		
MW-7		8-4-02	11:20	7	VOA Amb	X						X	λ	X	X																		
MW-9		8-4-02	13:25	7	VOA Amb	X						X	X	X	X																		
MW-13		8-4-02	10:35	7	VOA Amb	X						X	X	X	X																		

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

ICE: GOOD CONDITION / HEADSPACE ABSENT / DECHLORINATED IN LAB
 PRESERVATION APPROPRIATE / CONTAINERS PRESERVED IN LAB
 VOAS | O&G | METALS | OTHER

Relinquished By: [Signature] Date: 8-5-02 Time: 14:30 Received By: secure location
 Relinquished By: [Signature] Date: _____ Time: _____ Received By: _____
 Relinquished By: [Signature] Date: 8-7-02 Time: 3:15 Received By: Moh: Valt

Remarks: Report results in EDF format

ICE: _____ PRESERVED IN LAB
 VOAS | O&G | METALS | OTHER

Sent By: McCampbell Analytical, Inc. | 1 925 798 4812; | Sep-5-01 8:42AM; | Page 2/2

C A M B R I A



ATTACHMENT C

Field Data Sheets

Product Removal Form Connell Automobile Dealership, Oakland, CA

By: SG Date: 6-14-02

Project and Task #: 425-1580-011

FILE COPY

Well	Treatment	Time	Gallons Removed*	DTW/ DTP	Comments
MW-1	SoakEase	5:00 p	≈ 2.5 ml	23.45 / 23.98	
MW-6	Skimmer	5:43 p	≈ 2.5 ml	23.70 / 23.75	
MW-14	SoakEase	6:30	≈ 10 ml	23.88 / 23.89	

* If SoakEase is removed, wring out used sock into bucket and estimate vol. removed. Saturated socks theoretically hold about 1 quart (0.25 gal) of product. Skimmer receptacle holds about ½ quart (0.14 gal) of product.

Notes

No. of Product Drums Onsite: 1

Drum capacity available: 3/4

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Product Thickness	Amount of Product Removed	Casing Diam.	Comment
							DTB
MW-1	9:45	23.99	24.02	0.03	~40ml		replaced SPH sock
MW-4	9:15		18.95				24.00
MW-6	9:20	23.52	23.55	0.03	~40ml		replaced SPH sock
MW-7	9:13		17.58				30.00
MW-8	9:10		26.80				34.40
MW-9	9:25		20.20				30.50
MW-13	9:00		24.19				39.45
MW-14	9:40	23.60	23.61	0.01	~15ml		replaced SPH sock
MW-15	9:35	Sheen 23.60	23.65	not measurable 0.00			

Project Name: Connell

Project Number/Task: 425-1580 / 109

Measured By: S. Hill

Date: 8-4-02

CAMBRIA

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: BER	Well ID: MW-4
Project Number: 425-1580	Date: 08-4-02	Well Yield: ----
Site Address: 3093 Broadway Oakland, Ca	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): SG
Initial Depth to Water: 18.95	Total Well Depth: 24.00	Water Column Height: 5.05
Volume/ft: 0.16	1 Casing Volume: 0.80	3 Casing Volumes: 2.40
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 2.5
Start Purge Time: 12:15	Stop Purge Time: 12:44	Total Time: 29 mins

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

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

Time	Casing Volume	Temp. C	pH	Cond. uS	Comments
12:25	1	18.4	7.19	738	
12:35	2	18.7	7.05	420	
12:45	3	18.5	7.08	482	
					DO = 0.35mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	08-4-02	12:50	6 vca 1 amber 1 poly	HCl	TPHs BTEX MTBE TPH4/MO	
MW-						

CAMBRIA

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: BER	Well ID: MW-7
Project Number: 425-1580	Date: 02-4-02	Well Yield: ---
Site Address: 3093 Broadway Oakland, Ca	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): SG
Initial Depth to Water: 17.58	Total Well Depth: 30.00	Water Column Height: 12.42
Volume/ft: 0.16	1 Casing Volume: 1.98	3 Casing Volumes: 5.96
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 6
Start Purge Time: 10:45	Stop Purge Time: 11:14	Total Time: 29mins

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

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

Time	Casing Volume	Temp. C	pH	Cond. uS	Comments
10:55	2	18.7	7.40	1090	
11:05	4	18.7	7.53	628	
11:15	6	18.6	7.58	751	
					DD = 0.37mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-7	02-4-02	11:20	6 vials 1 amber 1 poly	HCl	TPHs BTEX MTBE TPHs/mo	
MW-						

CAMBRIA

WELL SAMPLING FORM

Project Name: Cannell	Cambria Mgr: BER	Well ID: MW-8
Project Number: 425-1580	Date: 08-4-02	Well Yield: ---
Site Address: 3093 Broadway Oakland, Ca	Sampling Method: Disposable bailer	Well Diameter: 8" pvc
Initial Depth to Water: 26.80	Total Well Depth: 39.40	Technician(s): SG
Volume/ft: 1.47	1 Casing Volume: 18.52	Water Column Height: 12.60
Purging Device: whale pump	Did Well Dewater?: no	3 Casing Volumes: 55.5
Start Purge Time: 11:30	Stop Purge Time: 11:59	Total Gallons Purged: 55
		Total Time: 29 mins

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

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

Time	Casing Volume	Temp. C	pH	Cond. uS	Comments
11:40	18	18.5	7.55	1570	
11:50	26	18.9	7.30	1159	
12:00	55	18.5	7.38	1361	
					DD = 0.44 mg/l

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-8	08-4-02	12:05	6 voc 1 amber 1 poly	HCl	TPH, BTEX, MTBE TPND/MO	
MW-						

CAMBRIA

WELL SAMPLING FORM

Project Name: Cannell	Cambria Mgr: BER	Well ID: MW-9
Project Number: 425-1580	Date: 08-4-02	Well Yield: ---
Site Address: 3093 Broadway Oakland, Ca	Sampling Method:	Well Diameter: 2" pvc
	Disposable bailer	Technician(s): SG
Initial Depth to Water: 20.20	Total Well Depth: 30.50	Water Column Height: 10.30
Volume/ft: 0.16	1 Casing Volume: 1.64	3 Casing Volumes: 4.94
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 5
Start Purge Time: 13:00	Stop Purge Time: 13:19	Total Time: 19 mins

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

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

Time	Casing Volume	Temp. C	pH	Cond. uS	Comments
13:10	1.5	18.1	7.20	1580	
13:15	3	18.5	7.28	729	
13:20	5	18.2	7.33	774	
					DO = 0.51mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-9	08-4-02	13:25	6 vca 1 amber 1 poly	HCl	TPHs BTEX MTBE TPHA/MO	
MW-						

CAMBRIA

WELL SAMPLING FORM

Project Name: Connell	Cambria Mgr: BER	Well ID: MW-13
Project Number: 425-1580	Date: 08-4-02	Well Yield: ---
Site Address: 3093 Broadway Oakland, Ca	Sampling Method: Disposable bailer	Well Diameter: 2" pvc
Initial Depth to Water: 24.19	Total Well Depth: 39.45	Technician(s): SG
Volume/ft: 0.16	1 Casing Volume: 2.44	Water Column Height: 15.26
Purging Device: disposable bailer	Did Well Dewater?: no	3 Casing Volumes: 7.32
Start Purge Time: 10:00	Stop Purge Time: 10:29	Total Gallons Purged: 7
		Total Time: 29mins

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

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

Time	Casing Volume	Temp. C	pH	Cond. uS	Comments
10:10	2.5	18.4	7.35	2170	
10:20	5	18.4	7.38	2054	
10:30	7	18.7	7.33	2138	
					DD = 0.31mg/L

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-13	08-4-02	10:35	5 vca 1 amber 1 poly	HCl	TPHs BTEX MTBE TPHd/mo	
MW-						

CAMBRIA
Supplemental Billing Form
Standard and State Fund Rates 2001

COPY

Date: 8-4-02

Project Name: Connell

Employee Name: Sanjiv Gill

Project #: 425-1580 Task 109

00003	Air Compressor	Day	35.00	1
00060	Bailer (PVC)	Day	8.00	
00004	Bailer (products thickness)	Day	20.00	
00005	Bailer (Teflon)	Day	20.00	
00051	Generator	Day	50.00	
00023	Hand Auger Kit w/ core sampler/hammer	Day	30.00	
00049	Meter - Combustible Gas/O2 Level	Day	50.00	
00001	Meter - Dissolved Oxygen Meter	Day	40.00	1
00008	Meter - Interface	Day	40.00	1
00002	Meter - pH, Conductivity, Temperature	Day	40.00	1
00052	Meter - Photo-Ionization Detector (PID)	Day	100.00	
00233	Meter - Flame-Ionization Detector (FID)	Day	150.00	
00037	Meter- Turbidity	Day	20.00	
00057	Meter - Vacuum/Pressure Gauges	Day	20.00	
00050	Meter - Vapor Flow Meter	Day	20.00	
00068	Meter - Water Level	Day	25.00	1
00058	Pump - DC Purging 2" (3 gpm to 40ft deep)	Day	15.00	1
00040	Pump - Hand Purging, 2" (3 gpm to 40 ft deep)	Day	15.00	1
00044	Pump - Submersible 2" (8 gpm)	Day	50.00	
00045	Pump - Submersible 4" (40 gpm)	Day	60.00	
00011	Pump - Trash (150 gpm)	Day	55.00	
00235	Traffic Control - Cones	Each 25	8.00	1
00037	Traffic Control - Signs, Barricades (no flagmen or lightboards)	Day	30.00	
00056	Bailers (Disposable) Polypropylene	Each	8.00	6
00020	Personal Protective Equipment: Level C (per person/day)	Unit	40.00	
00010	Personal Protective Equipment: Level D (per person /day)	Unit	0.00	
00238	Padlocks	Each	10.00	
00038	Soil Sampling Liners (Brass)	Each	8.00	
00234	Soil Sampling Liners (Stainless Steel)	Each	10.00	
00239	Tedlar Bags (1 Liter)	Each	10.00	
00025	Film	Photo	2.00	
00035	55-Gallon Drum	Each	40.00	2
00014	Miscellaneous field supplies (gloves, water, rope, caution tape, etc.)	Unit	25.00	1
	Standard			
00061	Mileage	Mile	0.40	
00063	Truck (2WD Pick-up, van)	Day	55.00	
00236	Specialized vehicle (4WD)	Day	75.00	
00015	Per diem	Day	85.00	
	UST Fund			
00067	Mileage - Truck/Auto (2WD Pick-up, van) if miles/day under 120	Mile	0.50	10
00063	Truck (2WD Pick-up, van) if miles/day over 120	Day	60.00	
00061	Mileage - Specialized vehicle (4WD) if miles/day under 125	Mile	0.60	
00236	Specialized vehicle (4WD) if miles/day over 125	Day	75.00	
00015	Per diem	Day	85.00	