

C A M B R I A

March 24, 2000

Ms. Susan Hugo
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

ENVIRONMENTAL
PROTECTION

COMMERCIAL IN S: 42

COP
469

Re: **First Quarter 2000 Monitoring Report**
Connell Automobile Dealership
3093 Broadway
Oakland, California
StID #469



Dear Ms. Hugo: .

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 23 CCR 2652d. The site background, first quarter 2000 activities and results, and the anticipated second quarter 2000 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 lbs of hydrocarbons. Manual removal of hydrocarbons from site monitoring wells has been ongoing since 1991.

FIRST QUARTER 2000 ACTIVITIES AND RESULTS

Groundwater Monitoring: Cambria monitored site groundwater following the sampling protocol described in the ACHCSA May 3, 1999 letter to Messrs. Hill and Linden. On February 9, 2000, Cambria gauged and sampled groundwater wells MW-1, MW-4, MW-6, MW-7, MW-8, MW-9, MW-13, MW-14, and MW-15. The samples were analyzed by a California Department of Health Services (DHS) certified analytical laboratory for total petroleum hydrocarbons (TPH) as diesel, TPH as motor oil (TPHmo), TPH as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), methyl tert-butyl ether (MTBE), EPA List 8010 halogenated volatile organic compounds (HVOCs), semi-volatile organic compounds (SVOCs), lead, cadmium, chromium, zinc, and nickel

Oakland, CA
Sonoma, CA
Portland, OR
Seattle, WA

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Environmental
Technology, Inc.**

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(LUFT metals). Prior to sampling, Cambria inspected the wells for separate-phase hydrocarbons (SPH). The analytical laboratory filtered all samples analyzed for LUFT metals. The groundwater elevations, groundwater flow direction, and gradient are shown on Figure 1. The groundwater and analytical data are presented in Tables 1, 2, and 3. SPH thicknesses and quantities removed are presented in Table 4. The analytical laboratory report is included as Attachment A. Field data sheets are included as Attachment B.

Groundwater Flow Direction: Based on the February 9, 2000, depth-to-water measurements, groundwater flowed eastward with a gradient of approximately 0.08 ft/ft during the first quarter of 2000 (Figure 1). This result is consistent with the historical local groundwater flow direction.

Contaminant Distribution in Groundwater: In general, monitoring results were consistent with past results for this site. SPH were detected in wells MW-1 and MW-6 (Figure 1). The primary contaminants of concern (COCs) in site groundwater are benzene, 1,2-DCA, naphthalene, lead and nickel; these COCs are typically associated with releases from USTs containing gasoline, diesel, and/or motor oil. The maximum benzene and 1,2-DCA concentrations detected in groundwater were 32,000 ug/l and 1,100 ug/l, respectively, in MW-15 (Table 1). The maximum naphthalene concentration detected in groundwater was 700 ug/l in MW-4 (Table 2). Maximum dissolved metal concentrations of 2,500 ug/l nickel and 1,800 ug/l lead were detected in wells MW-14 and MW-15, respectively (Table 3). The contaminant plumes are adequately defined cross-gradient (south) and downgradient of the former UST complex location by wells MW-7 and MW-13, respectively.

Separate-Phase Hydrocarbon Recovery Device Installation: Between February 9, 2000 and March 3, 2000, Cambria installed passive SPH recovery devices and verified proper removal of SPH from wells MW-1, MW-6 and MW-14. As proposed by Subsurface Consultants, Inc. in their April 15, 1999 *Work Plan*, hydrophobic absorbent socks were installed in wells MW-1 and MW-14, and a product skimming device equipped with a hydrophobic filter was installed in MW-6. (The selected product skimmer can be outfitted with a pump and containment vessel for continuous SPH removal should the quantity of SPH in well MW-6 increase.) Cambria visited the site on February 15, February 25, and March 3, 2000, to inspect the devices and maximize SPH recovery. Also, since a sheen was present on groundwater samples collected from MW-4, an absorbent sock was installed in MW-4. The absorbent sock was removed from MW-4 on February 25, 2000, because no SPH were recovered from this well after 16 days. Although limited SPH recovery has occurred in MW-14, Cambria left the absorbent sock in place and will continue to evaluate the effectiveness of maintaining a passive SPH removal device in this well. The passive recovery systems in MW-1 and MW-6 are effectively removing SPH from these wells.

Manual Separate-Phase Hydrocarbon Removal: During the February 9, 2000, monitoring event and prior to installing passive recovery devices, Cambria manually removed SPH from wells MW-1

and MW-6. Cambria technicians removed SPH using bailers specially designed for floating product collection. As of March 3, 2000, approximately 906 lbs of SPH have been recovered from site monitoring wells by manual methods. 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 manually removed from each well.

ANTICIPATED SECOND QUARTER 2000 ACTIVITIES



Groundwater Monitoring and Reporting: As required by the ACHCSA, Cambria will gauge and sample site wells MW-1, MW-4, MW-6, MW-7, MW-8, MW-9, MW-13, MW-14, and MW-15 on a quarterly basis. Cambria will analyze groundwater samples for TPHd, TPHmo, TPHg, BTEX, MTBE, EPA List 8010 HVOCs, SVOCs, and LUFT metals. 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, and collected SPH will be transferred to labeled, DOT-approved steel drums pending disposal or recycling.

CLOSING

We trust that this status report meets your requirements. If you have any questions or comments concerning this report, please call Bob Schultz at (510) 420-3341.

Sincerely,
Cambria Environmental Technology, Inc.

Robert W. Schultz

Robert W. Schultz
Project Geologist

Bob Clark-Riddell



Bob Clark-Riddell, P.E.
Principal Engineer



Attachments: A - Analytical Laboratory Report
B - Field Data Sheets

cc: George Hill, 305 Sheridan Avenue, Piedmont, CA 94611
Gordon Linden, 101 Glenden Avenue, Oakland, CA 94611
Paul Kibel, Fitzgerald, Abbott, & Beardsley, LLP, 1221 Broadway, 21st Floor, Oakland, CA 94612

EXPLANATION

- MW-1  Monitoring well location
-  Groundwater elevation anomalous, not included in contouring

Well ID	Well Designation
ELEV	Groundwater Elevation

Basemap from Subsurface Consultants, Inc.

HAWTHORNE STREET

SIDEWALK

3093 BROADWAY

WEBSTER STREET

SIDEWALK

MW-11

MW-1
70.59

MW-14
70.53

MW-15
70.34

MW-9
69.29

MW-10

MW-4
69.08

MW-2

MW-3

MW-7
68.67

MW-5

MW-6
61.24

MW-8
58.90*

MW-13
61.22

BROOK STREET

BROADWAY

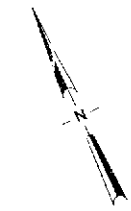
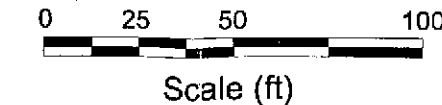


FIGURE
1

Groundwater Elevation Contours
February 9, 2000



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Connell Automobile Dealership
3093 Broadway
Oakland, California

H:\SE_2000\CONNELL\FIGURES\1-01.DWG

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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)					←-----ug/l----->								
MW-1	10/5/90	26.40	68.08	620,000	--	33,000	50,000	7,900	41,000	--	2,900	ND	
94.48	3/1/91	27.46	67.02	FP	--	--	--	--	--	**	--	--	
	10/12/92	26.44	68.04	490,000	--	51,000	59,000	5,000	27,000	--	1,300	--	
	11/24/92	26.63	67.85	320,000	--	35,000	43,000	4,200	22,000	--	1,600	ND	
	4/5/93	23.77	70.71	270,000	--	50,000	58,000	4,600	25,000	--	1,800	ND	
	7/21/93	24.51	69.97	FP	--	--	--	--	--	--	--	--	
	11/9/93	26.06	68.42	FP	--	--	--	--	--	--	--	--	
	8/30/95	21.73	72.75	FP	--	--	--	--	--	--	--	--	
	12/4/95	21.94	72.54	FP	--	--	--	--	--	<200	--	--	
	5/2/96	20.65	73.83	340,000	--	57,000	73,000	7,200	38,000	--	1,200	--	
	11/5/96	24.29	70.19	270,000	--	43,000	56,000	4,500	34,000	--	--	--	
	5/9/97	22.79	71.69	240,000	--	36,000	45,000	3,300	17,900	--	930	--	
	11/5/97	25.06	69.42	240,000	--	42,000	48,000	3,600	18,800	<1,000	1,200	--	
	2/9/98	22.64	71.84	220,000	--	47,000	60,000	5,200	29,800	<1,000	1,500	ND	
	5/1/98	19.95	74.53	160,000	--	35,000	42,000	2,800	16,000	<1,000	1,100	ND	
	11/3/98	23.29	71.19	200,000	--	39,000	49,000	4,400	26,000	<500	1,200	ND	
	3/24/99	22.30	72.18	FP	--	--	--	--	--	--	--	--	
	7/1/99	22.70	71.78	FP	--	--	--	--	--	--	--	--	
	9/21/99	23.81	70.67	FP	--	--	--	--	--	--	--	--	
	2/9/00	23.95	70.59	FP	--	--	--	--	--	--	--	--	
MW-2	3/1/91	27.86	66.95	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND	
94.81	11/24/92	27.91	66.90	<50	--	<0.5	1.1	<0.5	1.5	--	<1.0	ND	
	4/5/93	25.95	68.86	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND	
	7/21/93	25.59	69.22	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND	
	11/10/93	26.72	68.09	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND	
	8/30/95	25.75	69.06	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--	
	5/3/96	23.28	71.53	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND	
	5/8/97	24.58	70.23	<50	--	<0.5	0.7	<0.5	<0.5	--	<1.0	--	
	4/29/98	22.18	72.63	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<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
				←-----ug/l----->								
MW-3	3/1/91	23.17	66.91	<50	--	<50	0.6	<0.5	<0.5	--	<1.0	ND
90.08	11/25/92	23.01	67.07	50	--	<0.5	0.9	<0.5	2	--	<1.0	ND
	4/5/93	22.11	67.97	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/93	23.93	66.15	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/10/93	23.14	66.94	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/95	20.61	69.47	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/96	18.43	71.65	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/97	19.77	70.31	<50	--	<0.5	0.7	<0.5	<0.5	--	<1.0	--
	4/29/98	17.92	72.16	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
MW-4	3/1/91	23.79	65.05	150,000	--	20,000	38,000	2,800	14,000	**	610	ND
88.84	10/12/92	22.48	66.36	230,000	--	15,000	32,000	2,500	14,000	--	430	--
	11/24/92	22.60	66.24	210,000	--	14,000	31,000	2,500	14,000	--	500	ND
	4/2/93	20.11	68.73	FP	--	--	--	--	--	--	--	--
	7/21/93	20.48	68.36	FP	--	--	--	--	--	--	--	--
	11/9/93	21.71	67.13	FP	--	--	--	--	--	--	--	--
	8/30/95	19.90	68.94	FP	--	--	--	--	--	--	--	--
	12/1/95	19.40	69.44	FP	--	--	--	--	--	--	--	--
	5/2/96	17.50	71.34	140,000	--	24,000	50,000	3,000	15,100	--	420	ND
	11/4/96	20.13	68.71	160,000	--	16,000	38,000	2,700	14,000	--	380	ND
	5/8/97	18.63	70.21	170,000	--	16,000	37,000	2,400	15,900	--	290	--
	11/5/97	20.19	68.65	190,000	--	15,000	31,000	2,200	14,600	<400	290	--
	2/9/98	18.28	70.56	110,000	--	19,000	42,000	2,500	18,300	<500	300	--
	5/1/98	16.11	72.73	130,000	--	15,000	31,000	2,000	13,400	<1,000	260	ND
	8/4/98	17.54	71.30	130,000	--	16,000	34,000	2,400	15,700	<400	240	ND
	11/2/98	19.21	69.63	140,000	--	16,000	32,000	2,300	15,500	<400	230	ND
	3/26/99	17.51	71.33	110,000	--	15,000	30,000	1,600	15,000	450 ⁴	210	5
7/1/99	18.80	70.04	110,000	--	13,000	23,000	1,600	12,000	<83	170	5	
9/21/99	19.85	68.99	140,000	--	16,000	31,000	2,400	14,800	ND	<1000	5	
	2/9/00	19.76	69.08	--	140,000	16,000	28,000	2,100	14,000	<400	100	DCB: 5.9, MCB: 5.9

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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	Xylenes	MTBE	1,2-DCA	Other HVOCs
<-----ug/l----->												
MW-5	3/15/91	26.31	58.53	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
84.84	11/10/92	26.83	58.01	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	4/2/93	26.62	58.22	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/93	26.60	58.24	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/93	27.24	57.60	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/95	27.46	57.38	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/96	26.02	58.82	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/97	26.76	58.08	<50	--	<0.5	0.5	<0.5	<0.5	--	<1.0	--
	4/29/98	26.55	58.29	<50	--	<0.5	0.5	<0.5	<0.5	<2	<1.0	ND
MW-6	3/15/91	25.82	59.80	80,000	--	12,000	13,000	1,100	5,400	--	1,400	DBCM: 160
85.62	10/12/92	25.02	60.60	19,000	--	3,200	1,400	200	560	--	840	--
	12/1/92	28.87	56.75	FP	--	--	--	--	--	--	--	--
	4/2/93	26.96	58.66	FP	--	--	--	--	--	--	--	--
	7/21/93	26.17	59.45	FP	--	--	--	--	--	--	--	--
	11/9/93	27.51	58.11	FP	--	--	--	--	--	--	--	--
	8/30/95	28.00	57.62	FP	--	--	--	--	--	--	--	--
	12/1/95	27.58	58.04	FP	--	--	--	--	--	<8,000,000	71	--
86.94	5/3/96	28.15	58.79	130,000	--	37,000	50,000	3,200	14,200	--	2,400	ND
	5/9/97	26.54	60.40	1,700,000	--	14,000	27,000	4,000	28,200	--	1,200	--
	11/5/97	26.16	60.78	160,000	--	13,000	19,000	1,900	14,300	<200	790	--
85.82	5/1/98	22.96	62.86	130,000	--	15,000	23,000	1,700	13,200	<500	1,100	ND
	11/3/98	24.35	61.47	110,000	--	17,000	21,000	1,800	10,700	<200	990	ND
	3/26/99	23.82	62.00	FP	--	--	--	--	--	--	--	--
	7/1/99	24.45	61.37	FP	--	--	--	--	--	--	--	--
	9/21/99	24.58	61.24	FP	--	--	--	--	--	--	--	--
	2/9/00	24.93	61.24	FP	--	--	--	--	--	--	--	--

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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
				<-----ug/l----->								
MW-7	3/15/91	21.63	63.78	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
85.41	11/24/92	21.52	63.89	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	4/2/93	20.08	65.33	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/93	19.59	65.82	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/93	20.65	64.76	<50	--	<0.5	1	<0.5	1.7	--	<1.0	ND
	8/30/95	18.78	66.63	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	12/1/95	19.47	65.94	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/2/96	17.15	68.26	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/8/96	18.48	66.93	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	11/4/96	18.69	66.72	<50	--	<1	<1	<1	<1	--	<1.0	ND
	2/6/97	17.44	67.97	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	5/8/97	17.72	67.69	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	8/7/97	18.49	66.92	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	11/5/97	18.86	66.55	<50	--	<0.5	<0.5	<0.5	<0.5	<2	1	--
	2/9/98	17.56	67.85	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	--
	4/29/98	16.23	69.18	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
	8/4/98	17.24	68.17	<50	--	<0.5	<0.5	<0.5	<0.5	<2	1.1	ND
	11/2/98	17.91	67.50	<50	--	<0.5	<0.5	<0.5	<0.5	<2	1.2	ND
	3/26/99	16.42	68.99	<50	--	<0.5	<0.5	<0.5	<0.5	<2	ND	ND
	7/1/99	17.90	67.51	85	--	<0.5	1.1	0.55	2.5	<0.5	1.0	5
	9/21/99	18.91	66.50	<50	--	0.7	1.8	<0.5	1.5	<5.0	<5.0	ND
2/9/00	16.74	68.67	--	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<0.5
MW-8	10/12/92	27.70	57.80	70	--	20	1	1	3	--	210	--
85.50	11/25/92	27.62	57.88	<50	--	<0.5	<0.5	<0.5	<0.5	--	200	ND
	4/8/93	26.64	58.86	490	--	15	45	5.1	73	--	210	ND
	7/21/93	26.60	58.90	180	--	2.5	3	<0.5	1.9	--	350	ND
	11/11/93	27.18	58.32	310	--	23	<0.5	<0.5	<0.5	--	240	ND
	8/30/95	26.35	59.15	660	--	360	6.8	13	2.8	--	130	--
	12/4/95	26.72	58.78	250	--	46	0.9	4.9	<0.5	--	94	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)					-----> ug/l <-----								
	5/3/96	25.47	60.03	69	--	110	<0.5	<0.5	1.5	--	100	ND	
	8/8/96	26.41	59.09	120	--	11	<0.5	<0.5	<0.5	<2	93	ND	
	11/5/96	26.77	58.73	110	--	20	<1	1	<1	--	98	ND	
	2/6/97	25.84	59.66	67 ^{1,2}	--	51	<0.5	0.56	<0.5	<2	81	ND	
	5/9/97	26.39	59.11	110 ^{1,2}	--	59	<0.5	<0.5	<0.5	--	76	--	
	8/7/97	26.72	58.78	<50	--	12 ³	<0.5	<0.5	<0.5	<2	79	ND	
	11/5/97	26.82	58.68	<50	--	9.4	<0.5	<0.5	<0.5	<2	84	--	
	2/9/98	25.57	59.93	<50	--	6	<0.5	<0.5	<0.5	<2	85	--	
	5/1/98	25.64	59.86	430	--	490	7.1	27	26	<10	85	ND	
	8/5/98	25.96	59.54	140	--	19	<0.5	5.2	5.3	<2	69	ND	
	11/3/98	26.27	59.23	150	--	110	1.1	4.3	4.5	<2	67	ND	
	3/31/99	20.93	64.57	54	--	170	1.5	4.1	1.9	4.4 ⁴	5.9	1,1 DCA: 0.7	
	7/1/99	26.59	58.91	140	--	58	0.9	3	2.3	<0.5	55	⁵	
	9/21/99	26.89	58.61	670	--	170	2.6	11	7.9	<5	41	ND	
	2/9/00	26.60	58.90	--	300	60	1.2	4.8	1.2	<5.0	40	<0.5	
MW-9	11/24/92	23.51	66.86	19,000	--	180	590	23	2000	--	340	TCM: 15	
90.37	4/5/93	21.14	69.23	2,300	--	48	4	0.6	13	--	600	TCM: 2	
	7/21/93	21.54	68.83	2,300	--	170	8.1	15	<0.5	--	1100	ND	
	11/10/93	27.53	62.84	4,400	--	69	7.3	21	9.7	--	900	ND	
	8/30/95	19.59	70.78	3,200	--	3,900	49	80	22.8	--	960	--	
	12/4/95	20.65	69.72	--	--	--	--	--	--	<2	--	--	
	5/2/96	18.63	71.74	<1300	--	2,600	<13	200	<13	--	550	ND	
	11/5/96	20.69	69.68	1,800	--	280	<5	65	<5	--	770	ND	
	5/9/97	19.96	70.41	1,100	--	160	<0.5	42	<0.5	--	690	--	
	8/8/97	20.84	69.53	570 ^{1,2}	--	<0.5	<0.5	<0.5	0.78 ³	<2	680	ND	
	11/5/97	21.55	68.82	490 ¹	--	<0.5	<0.5	6	<0.5	<2	500	--	
	2/9/98	20.21	70.16	270 ¹	--	48	17	5.8	<0.5	<2	520	--	
	5/1/98	19.27	71.10	550	--	70	<0.5	22	2.2	<2	390	ND	
	8/5/98	19.35	71.02	550 ¹	--	88	<0.5	13	1.9 ³	<2	420	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	Xylenes	MTBE	1,2-DCA	Other HVOCs
-----ug/l----->												
	11/2/98	20.43	69.94	580	--	<0.5	<0.5	7.5 ³	1.6 ³	<2	430	ND
	3/25/99	18.46	71.91	1,100	--	160	<0.5	21	2.1 ³	5.7 ⁴	550	ND
	7/1/99	19.95	70.42	540	--	100	7.4	26	16.9	<1.3	400	⁵
	9/21/99	21.15	69.22	2,700	--	320	98	88	47	<20	540	ND
	2/9/00	21.08	69.29	--	1,600	81	3.6	19	18	<5.0	360	<0.5
MW-10	10/12/92	21.55	67.05	28,000	--	2,700	3,800	210	1,300	--	150	--
88.60	11/24/92	21.86	66.74	130,000	--	9,700	19,000	1,400	8,400	--	370	ND
	4/5/93	19.14	69.46	63,000	--	6,300	14,000	1,100	7,500	--	70	ND
	7/21/93	19.79	68.81	140,000	--	16,000	31,000	2,200	13,000	--	700	ND
	8/30/95	17.99	70.61	92,000	--	13,000	24,000	1,800	9,100	--	300	--
	5/3/96	17.04	71.56	81,000	--	17,000	29,000	2,100	8,500	--	320	ND
	5/9/97	18.36	70.24	63,000	--	7,400	13,000	940	4,100	--	150	--
	5/1/98	15.84	72.76	60,000	--	7,100	14,000	1100	5,300	<250	120	ND
MW-11	11/24/92	33.65	68.41	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
102.06	2/8/92**	33.37	68.69	<50	--	<0.1	<0.1	<0.1	<0.1	--	--	--
	12/8/92	33.37	68.69	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--
	4/5/93	31.03	71.03	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	7/21/93	31.90	70.16	160	--	<0.5	1.8	<0.5	<0.5	--	<1.0	ND
	11/9/93	32.60	69.46	80	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/95	28.92	73.14	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	5/3/96	28.00	74.06	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	5/8/97	29.93	72.13	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	--
	4/29/98	27.22	74.84	<50	--	<0.5	<0.5	<0.5	<0.5	<2	<1.0	ND
MW-13	11/24/92	26.05	58.01	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
84.06	2/8/92**	25.08	58.98	<50	--	<0.1	<0.1	<0.1	<0.1	--	--	--
	12/8/92	25.08	58.98	<50	--	<0.5	<0.5	<0.5	<0.5	--	--	--
	4/5/93	24.64	59.42	<50	--	<0.5	0.9	<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 TOC Elev. (ft)	Sampling Date	Depth to Groundwater (ft)	Groundwater Elevation (ft)	TVH	TPHg	Benzene	Toluene	Ethyl - benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
<-----ug/l----->												
	7/21/93	24.29	59.77	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	11/9/93	24.23	59.83	<50	--	<0.5	<0.5	<0.5	<0.5	--	<1.0	ND
	8/30/95	23.30	60.76	<50	--	49	<0.5	<0.5	<0.5	--	3.6	--
	12/1/95	23.80	60.26	<50	--	<0.5	<0.5	<0.5	<0.5	--	4.1	ND
	5/3/96	23.19	60.87	<50	--	<0.5	<0.5	<0.5	<0.5	--	4	ND
	8/8/96	23.44	60.62	<50	--	32	<0.5	<0.5	<0.5	<2	6.4	ND
	11/5/96	24.04	60.02	<50	--	<1	<1	<1	<1	--	5.7	ND
	2/6/97	23.24	60.82	<50	--	<0.5	<0.5	<0.5	<0.5	<2	3.5	ND
	5/8/97	23.46	60.60	<50	--	81	<0.5	<0.5	<0.5	--	5.5	--
	8/8/97	23.92	60.14	<50	--	<0.5	<0.5	<0.5	<0.5	<2	6.8	ND
	11/5/97	24.27	59.79	<50	--	<0.5	<0.5	<0.5	<0.5	<2	5.5	--
	2/9/98	22.89	61.17	<50	--	<0.5	<0.5	<0.5	<0.5	<2	2.9	--
	4/29/98	22.27	61.79	<50	--	24	<0.5	<0.5	<0.5	<2	5.7	ND
	8/4/98	22.75	61.31	120	--	200	<1	<1	<1	<4	6.2	ND
	11/3/98	23.90	60.16	59 ¹	--	33	<0.5	<0.5	<0.5	<2	6.1	ND
	3/31/99	23.11	60.95	130	--	0.56	<0.5	<0.5	<0.5	<2	1.4	ND
	7/1/99	23.40	60.66	160	--	370	19	1.2	3.5	<1	4.2	⁵
	9/21/99	21.91	62.15	370	--	150	1.0	0.8	0.8	<5.0	<5.0	ND
	2/9/00	23.84	60.22	--	<50	<0.5	<0.5	<0.5	<0.5	<5.0	2.1	<0.5
MW-14	5/26/98	21.67	72.99	41,000	--	7,100	11,000	720	3,900	<1000	440	ND
94.66	7/1/99	22.95	71.71	FP	--	--	--	--	--	--	--	--
	9/21/99	24.26	70.40	FP	--	--	--	--	--	--	--	--
	2/9/00	24.13	70.53	--	92,000	12,000	17,000	1,300	8,700	<140	450	<0.5
MW-15	5/26/98	21.87	72.89	130,000	--	30,000	38,000	2,500	12,600	<1000	1,200	ND
94.76	7/1/99	22.25	72.51	FP	--	--	--	--	--	--	--	--
	9/21/99	24.12	70.64	FP	--	--	--	--	--	--	--	--
	2/9/00	24.42	70.34	--	180,000	32,000	37,000	2,800	14,000	<200	1,100	<0.5

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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	Depth to	Groundwater	TVH	TPHg	Benzene	Toluene	Ethyl - benzene	Xylenes	MTBE	1,2-DCA	Other HVOCs
<i>TOC Elev. (ft)</i>	Date	Groundwater (ft)	Elevation (ft)									
<-----ug/l----->												

Abbreviations and Notes:

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

TVH = Total Volatile Hydrocarbons

TEH = Total Extractable Hydrocarbons

MTBE = Methyl tert-butyl ether

* = 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.

DCB = 1, 3 Dichlorobenzene

MCB = Chlorobenzene

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

1,2-DCA = 1,2 Dichloroethane

TPHg = Total petroleum hydrocarbons as gasoline

HVOCs = Halogenated volatile organic compounds by EPA Method 8010

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

DBCM = Dibromochloromethane

TCM = Chloroform = trichloromethane

<0.5 = Chemical not present at a concentration in excess of detection limit shown

MW-1 was initially referred to as Sample 5

-- = Sample not analyzed

FP = Free product encountered in well

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, Ethylbenzene, Styrene, Isopropylbenzene, Propylbenzene, 1,3,5-Trimethylbenzene, 2-Chlorotoluene, 1,2,4-Trimethylbenzene, n-Butylbenzene, and Naphthalene. See laboratory results for details.

1,1 DCA = 1,1 Dichloroethane

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

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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. (ft)</i>	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH <----->	TPHd	TPHmo	2-Methyl naphthalene -ug/l-	Naphthalene	Other SVOCs
MW-1	10/5/90	26.40	68.08	<500	--	--	--	--	--
94.48	3/1/91	27.46	67.02	FP	--	--	--	--	--
	10/12/92	26.44	68.04	--	--	--	--	--	--
	11/24/92	26.63	67.85	4,600	--	--	--	--	--
	4/5/93	23.77	70.71	25,000	--	--	--	--	--
	7/21/93	24.51	69.97	FP	--	--	--	--	--
	11/9/93	26.06	68.42	FP	--	--	--	--	--
	8/30/95	21.73	72.75	FP	--	--	630	1,200	ND
	12/4/95	21.94	72.54	FP	--	--	--	--	--
	5/2/96	20.65	73.83	32,000	--	--	250	640	ND
	11/5/96	24.29	70.19	--	--	--	--	--	--
	5/9/97	22.79	71.69	28,000	--	--	280	650	ND
	11/5/97	25.06	69.42	28,000	--	--	720	1,500	ND
	2/9/98	22.64	71.84	27,000	--	--	160	570	ND
	5/1/98	19.95	74.53	29,000	--	--	--	--	--
	5/27/98	--	--	--	--	--	120	630	ND
	11/3/98	23.29	71.19	37,000	--	--	500	1,100	ND
	3/24/99	22.30	72.18	FP	--	--	--	--	--
	7/1/99	22.70	71.78	FP	--	--	--	--	--
	9/21/99	23.81	70.67	FP	--	--	--	--	--
	2/9/00	23.95	70.59	--	FP	--	--	--	--
MW-2	3/1/91	27.86	66.95	<50	--	--	--	--	--
94.81	11/24/92	27.91	66.90	<50	--	--	--	--	--
	4/5/93	25.95	68.86	870	--	--	--	--	--
	7/21/93	25.59	69.22	<50	--	--	--	--	--
	11/10/93	26.72	68.09	240	--	--	--	--	--
	8/30/95	25.75	69.06	150	--	--	--	--	--
	5/3/96	23.28	71.53	<50	--	--	--	--	--
	5/8/97	24.58	70.23	<50	--	--	--	--	--
	4/29/98	22.18	72.63	<47	--	--	--	--	--
MW-3	3/1/91	23.17	66.91	<50	--	--	--	--	--
90.08	11/25/92	23.01	67.07	160	--	--	--	--	--

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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
				<-----ug/l----->					
	4/5/93	22.11	67.97	<50	--	--	--	--	--
	7/21/93	23.93	66.15	<50	--	--	--	--	--
	11/10/93	23.14	66.94	<50	--	--	--	--	--
	8/30/95	20.61	69.47	<50	--	--	--	--	--
	5/3/96	18.43	71.65	<50	--	--	--	--	--
	5/8/97	19.77	70.31	<50	--	--	--	--	--
	4/29/98	17.92	72.16	<47	--	--	--	--	--
MW-4	3/1/91	23.79	65.05	<500	--	--	--	--	--
88.84	10/12/92	22.48	66.36	--	--	--	--	--	--
	11/24/92	22.60	66.24	1,600	--	--	--	--	--
	4/2/93	20.11	68.73	FP	--	--	--	--	--
	7/21/93	20.48	68.36	FP	--	--	--	--	--
	11/9/93	21.71	67.13	FP	--	--	--	--	--
	8/30/95	19.90	68.94	FP	--	--	--	--	--
	12/1/95	19.40	69.44	FP	--	--	--	--	--
	5/2/96	17.50	71.34	9,200	--	--	--	--	--
	11/4/96	20.13	68.71	4,700	--	--	--	--	--
	5/8/97	18.63	70.21	5,100	--	--	--	--	--
	11/5/97	20.19	68.65	3,700	--	--	--	--	--
	2/9/98	18.28	70.56	4,800	--	--	--	--	--
	5/1/98	16.11	72.73	5,000	--	--	--	--	--
	8/4/98	17.54	71.30	3,500	--	--	--	--	--
	11/2/98	19.21	69.63	7,200	--	--	--	--	--
	3/26/99	17.51	71.33	14,000	--	--	--	--	--
	7/1/99	18.80	70.04	17,000	--	--	370	860	ND
	9/21/99	19.85	68.99	14,000	--	--	360	820	ND
	2/9/00	19.76	69.08	--	12,000	1,000	290	700	ND
MW-5	3/15/91	26.31	58.53	<50	--	--	--	--	--
84.84	11/10/92	26.83	58.01	50	--	--	--	--	--
	4/2/93	26.62	58.22	<50	--	--	--	--	--
	7/21/93	26.60	58.24	190	--	--	--	--	--
	11/9/93	27.24	57.60	170	--	--	--	--	--
	8/30/95	27.46	57.38	180	--	--	--	--	--

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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)	<-----ug/l----->								
	5/3/96	26.02	58.82	<50	--	--	--	--	--
	5/8/97	26.76	58.08	<50	--	--	--	--	--
	4/29/98	26.55	58.29	<47	--	--	--	--	--
MW-6	3/15/91	25.82	59.80	<50	--	--	--	--	--
85.62	10/12/92	25.02	60.60	--	--	--	--	--	--
	12/1/92	28.87	56.75	FP	--	--	--	--	--
	4/2/93	26.96	58.66	FP	--	--	--	--	--
	7/21/93	26.17	59.45	FP	--	--	--	--	--
	11/9/93	27.51	58.11	FP	--	--	--	--	--
	8/30/95	28.00	57.62	FP	--	--	--	--	--
	12/1/95	27.58	58.04	FP	--	--	--	--	--
	5/3/96	26.83	58.79	9,000	--	--	--	--	--
86.94	5/9/97	26.54	60.40	53,000	--	--	--	--	--
	11/5/97	26.16	60.78	65,000	--	--	--	--	--
85.82	5/1/98	22.96	62.86	25,000	--	--	--	--	--
	11/3/98	24.35	61.47	30,000	--	--	--	--	--
	3/26/99	23.82	62.00	FP	--	--	--	--	--
	7/1/99	24.45	61.37	FP	--	--	--	--	--
	9/21/99	24.58	61.24	FP	--	--	--	--	--
	2/9/00	24.93	61.24	--	FP	--	--	--	--
MW-7	3/15/91	21.63	63.78	<50	--	--	--	--	--
85.41	11/24/92	21.52	63.89	<50	--	--	--	--	--
	4/2/93	20.08	65.33	<50	--	--	--	--	--
	7/21/93	19.59	65.82	150	--	--	--	--	--
	11/9/93	20.65	64.76	200	--	--	--	--	--
	8/30/95	18.78	66.63	170	--	--	--	--	--
	12/1/95	19.47	65.94	<50	--	--	--	--	--
	5/2/96	17.15	68.26	<50	--	--	--	--	--
	8/8/96	18.48	66.93	<50	--	--	--	--	--
	11/4/96	18.69	66.72	<50	--	--	--	--	--
	2/6/97	17.44	67.97	<50	--	--	--	--	--
	5/8/97	17.72	67.69	<50	--	--	--	--	--
	8/7/97	18.49	66.92	<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	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH	TPHd	TPHmo	2-Methyl naphthalene	Naphthalene	Other SVOCs
<i>TOC Elev. (ft)</i>				<-----ug/l----->					
	11/5/97	18.86	66.55	<50	--	--	--	--	--
	2/9/98	17.56	67.85	<50	--	--	--	--	--
	4/29/98	16.23	69.18	<47	--	--	--	--	--
	8/4/98	17.24	68.17	<50	--	--	--	--	--
	11/2/98	17.91	67.50	<50	--	--	--	--	--
	3/26/99	16.42	68.99	<50	--	--	--	--	--
	7/1/99	17.90	67.51	<50	--	--	<10	<10	ND
	9/21/99	18.91	66.50	<48	--	--	<9.5	<9.5	ND
	2/9/00	16.74	68.67	--	<50	<250	<10	<10	ND
MW-8	10/12/92	27.70	57.80	--	--	--	--	--	--
85.50	11/25/92	27.62	57.88	170	--	--	--	--	--
	4/8/93	26.64	58.86	100	--	--	--	--	--
	7/21/93	26.60	58.90	90	--	--	--	--	--
	11/11/93	27.18	58.32	170	--	--	--	--	--
	8/30/95	26.35	59.15	240	--	--	--	--	--
	12/4/95	26.72	58.78	<50	--	--	--	--	--
	5/3/96	25.47	60.03	94	--	--	--	--	--
	8/8/96	26.41	59.09	250	--	--	--	--	--
	11/5/96	26.77	58.73	<50	--	--	--	--	--
	2/6/97	25.84	59.66	130	--	--	--	--	--
	5/9/97	26.39	59.11	120	--	--	--	--	--
	8/7/97	26.72	58.78	150	--	--	--	--	--
	11/5/97	26.82	58.68	110	--	--	--	--	--
	2/9/98	25.57	59.93	75	--	--	--	--	--
	5/1/98	25.64	59.86	210	--	--	--	--	--
	8/5/98	25.96	59.54	260	--	--	--	--	--
	11/3/98	26.27	59.23	190	--	--	--	--	--
	3/31/99	20.93	64.57	200	--	--	--	--	--
	7/1/99	26.59	58.91	170	--	--	<9.6	<9.6	ND
	9/21/99	26.89	58.61	420	--	--	<9.4	<9.4	ND
	2/9/00	26.60	58.90	--	120	280	<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 <i>TOC Elev. (ft)</i>	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH <----->	TPHd	TPHmo	2-Methyl naphthalene ug/l	Naphthalene	Other SVOCs
MW-9	11/24/92	23.51	66.86	320	--	--	--	--	--
90.37	4/5/93	21.14	69.23	920	--	--	--	--	--
	7/21/93	21.54	68.83	450	--	--	--	--	--
	11/10/93	27.53	62.84	450	--	--	--	--	--
	8/30/95	19.59	70.78	680	--	--	--	--	--
	12/4/95	20.65	69.72	--	--	--	--	--	--
	5/2/96	18.63	71.74	710	--	--	--	--	--
	11/5/96	20.69	69.68	420	--	--	--	--	--
	5/9/97	19.96	70.41	490	--	--	--	--	--
	8/8/97	20.84	69.53	480	--	--	--	--	--
	11/5/97	21.55	68.82	370	--	--	--	--	--
	2/9/98	20.21	70.16	410	--	--	--	--	--
	5/1/98	19.27	71.10	450	--	--	--	--	--
	8/5/98	19.35	71.02	630	--	--	--	--	--
	11/2/98	20.43	69.94	500	--	--	--	--	--
	3/25/99	18.46	71.91	630	--	--	--	--	--
7/1/99	19.95	70.42	570	--	--	<9.5	<9.5	ND	
9/21/99	21.15	69.22	770	--	--	<9.4	<9.4	ND	
2/9/00	21.08	69.29	--	320	<250	<10	<10	ND	
MW-10	10/12/92	21.55	67.05	--	--	--	--	--	--
88.60	11/24/92	21.86	66.74	1,300	--	--	--	--	--
	4/5/93	19.14	69.46	5,000	--	--	--	--	--
	7/21/93	19.79	68.81	20,000	--	--	--	--	--
	8/30/95	17.99	70.61	5,900	--	--	--	--	--
	5/3/96	17.04	71.56	5,600	--	--	--	--	--
	5/9/97	18.36	70.24	2,500	--	--	--	--	--
	5/1/98	15.84	72.76	2,000	--	--	--	--	--
MW-11	11/24/92	33.65	68.41	220	--	--	--	--	--
102.06	12/8/92*	33.37	68.69	140	--	--	--	--	--
	12/8/92	33.37	68.69	120	--	--	--	--	--

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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. (ft)</i>	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH <----->	TPHd	TPHmo	2-Methyl naphthalene ug/l	Naphthalene	Other SVOCs
	4/5/93	31.03	71.03	<50	--	--	--	--	--
	7/21/93	31.90	70.16	150	--	--	--	--	--
	11/9/93	32.60	69.46	60	--	--	--	--	--
	8/30/95	28.92	73.14	240	--	--	--	--	--
	5/3/96	28.00	74.06	<50	--	--	--	--	--
	5/8/97	29.93	72.13	<50	--	--	--	--	--
	4/29/98	27.22	74.84	<47	--	--	--	--	--
MW-13	11/24/92	26.05	58.01	3,600	--	--	--	--	--
84.06	12/8/92*	25.08	58.98	210	--	--	--	--	--
	12/8/92	25.08	58.98	100	--	--	--	--	--
	4/5/93	24.64	59.42	<50	--	--	--	--	--
	7/21/93	24.29	59.77	<50	--	--	--	--	--
	11/9/93	24.23	59.83	160	--	--	--	--	--
	8/30/95	23.30	60.76	<50	--	--	--	--	--
	12/1/95	23.80	60.26	<50	--	--	--	--	--
	5/3/96	23.19	60.87	<50	--	--	--	--	--
	8/8/96	23.44	60.62	<50	--	--	--	--	--
	11/5/96	24.04	60.02	<50	--	--	--	--	--
	2/6/97	23.24	60.82	<50	--	--	--	--	--
	5/8/97	23.46	60.60	<50	--	--	--	--	--
	8/8/97	23.92	60.14	<50	--	--	--	--	--
	11/5/97	24.27	59.79	<50	--	--	--	--	--
	2/9/98	22.89	61.17	<50	--	--	--	--	--
	4/29/98	22.27	61.79	<47	--	--	--	--	--
	8/4/98	22.75	61.31	78	--	--	--	--	--
	11/3/98	23.90	60.16	<50	--	--	--	--	--
	3/31/99	23.11	60.95	<48	--	--	--	--	--
	7/1/99	23.40	60.66	100	--	--	<9.6	<9.6	ND
	9/21/99	21.91	62.15	<48	--	--	<9.4	<9.4	ND
	2/9/00	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 <i>TOC Elev. (ft)</i>	Sampling Date	Depth to water (ft)	Groundwater Elevation (ft)	TEH <----->	TPHd	TPHmo	2-Methyl naphthalene ug/l	Naphthalene	Other SVOCs
MW-14	5/26/98	21.67	72.99	7,700	--	--	--	--	--
94.66	7/1/99	22.95	71.71	FP	--	--	--	--	--
	9/21/99	24.26	70.40	FP	--	--	--	--	--
	2/9/00	24.13	70.53	--	14,000	1,500	290	600	ND
MW-15	5/26/98	21.87	72.89	1,700	--	--	--	--	--
94.76	7/1/99	22.25	72.51	FP	--	--	--	--	--
	9/21/99	24.12	70.64	FP	--	--	--	--	--
	2/9/00	24.42	70.34	--	4,000	1,200	50	270	ND

Abbreviations and Notes:

SVOCs = Semi-volatile organic compounds

TEH = Total extractable hydrocarbons

TPHd = Total petroleum hydrocarbons as diesel

TPHmo = Total petroleum hydrocarbons as motor oil

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

* = Duplicate sample sent to a different chemical laboratory

< n = Not detected above n ug/l

-- = Not analyzed/not available

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

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

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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	7/1/99	<5	<10	59	<20	<20	<20	
	9/21/99	<5	<10	66	<20	33	<20	
	2/9/00	<5	17	68	<50	<50	<50	
MW-7	7/1/99	<5	<10	<3	<20	<20	<20	
	9/21/99	<5	<10	<3	<20	<20	<20	
	2/9/00	<5	14	8.6	59	<50	<50	
MW-8	7/1/99	<5	<10	<3	<20	<20	<20	
	9/21/99	<5	<10	<3	<20	<20	<20	
	2/9/00	<5	<5	<5	<50	<50	<50	
MW-9	7/1/99	<5	<10	<3	34	<20	<20	
	9/21/99	<5	<10	<3	25	37	<20	
	2/9/00	<5	82	29	160	130	<20	
MW-13	7/1/99	<5	<10	<3	<20	<20	<20	
	9/21/99	<5	<10	<3	<20	<20	<20	
	2/9/00	<5	12	15	<50	<50	<50	
MW-14	2/9/00	<5	210	24	2,500	280	<20	
MW-15	2/9/00	<5	140	1,800	220	150	<20	

Abbreviations and Notes:

LUFT metals analyzed by EPA Method 6010

ug/l = micrograms per liter

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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	12/23/91	26.86	1.15	2.00	12.20	12.20	1
94.48	12/26/91	26.08	0.22	0.50	3.05	15.25	1
	1/13/92	26.53	0.66	1.00	6.10	21.35	1
	2/28/92	27.75	0.42	2.00	12.20	33.55	1
	11/9/93	26.06	1.17	0.50	3.05	36.60	1
	11/3/95	23.10	0.76	0.75	4.58	41.18	1
	11/30/95	23.38	0.70	0.25	1.53	42.70	1
	1/3/96	23.30	0.78	0.53	3.23	45.93	1
	2/2/96	22.96	0.84	0.75	4.58	50.51	1
	3/1/96	21.69	0.14	0.10	0.61	51.12	1
	4/4/96	21.11	0.00	0.00	0.00	51.12	1
	5/2/96	20.96	0.00	0.00	0.00	51.12	1
	6/5/96	20.98	0.04	0.10	0.61	51.73	1
	7/9/96	21.64	0.20	0.10	0.61	52.34	1
	8/8/96	22.43	0.33	0.05	0.31	52.64	1
	9/10/96	23.25	0.60	0.10	0.61	53.25	1
	10/1/96	23.58	0.60	0.25	1.53	54.78	1
	11/4/96	24.29	0.78	0.13	0.79	55.57	1
	12/2/96	24.63	0.88	0.26	1.59	57.16	1
	1/3/97	24.08	0.81	0.39	2.38	59.54	1
	2/6/97	22.46	0.30	0.01	0.06	59.60	1
	3/5/97	23.00	0.00	0.00	0.00	59.60	1
	4/1/97	22.29	0.20	0.01	0.06	59.66	1
	5/8/97	22.79	0.33	0.02	0.12	59.78	1
	6/6/97	24.33	1.69	0.26	1.59	61.37	1
	7/8/97	24.00	0.96	0.20	1.22	62.59	1
	8/7/97	24.58	1.29	1.00	6.10	68.69	1
	9/10/97	24.93	1.21	1.50	9.15	77.84	1
	10/1/97	24.89	0.86	0.26	1.59	79.42	1
	11/4/97	25.06	0.77	0.26	1.59	81.01	1
	12/4/97	24.76	0.54	0.19	1.16	82.17	1
	1/8/98	23.66	0.00	0.00	0.00	82.17	1
	2/5/98	22.64	0.00	0.00	0.00	82.17	1
	3/6/98	20.80	0.00	0.00	0.00	82.17	1
	4/2/98	20.31	0.00	0.00	0.00	82.17	1
	4/29/98	19.95	0.00	0.00	0.00	82.17	1
	6/3/98	20.41	0.00	0.00	0.00	82.17	1

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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 (ft)	LPH Thickness (ft)	Hydrocarbons Removed (gallons)	Hydrocarbons Removed (lbs)	Cumulative Hydrocarbons Removed (lbs)	Notes
	7/9/98	20.97	0.07	0.00	0.00	82.17	1
	8/4/98	21.40	trace	trace	0.00	82.17	1
	8/26/98	21.85	0.10	trace	0.00	82.17	1
	11/2/98	22.92	0.39	trace	0.00	82.17	1
	12/4/98	23.29	0.29	0.01	0.06	82.23	1
	1/5/99	23.51	0.42	0.03	0.18	82.41	1
	2/8/99	23.08	0.05	0.25	1.53	83.94	1
	3/24/99	21.90	0.01	0.01	0.06	84.00	1
	4/30/99	21.52	0.00	0.00	0.00	84.00	1
	7/1/99	22.70	0.03	0.01	0.06	84.06	1
	9/21/99	23.81	0.08	0.20	1.22	85.28	1
	10/20/99	23.90	0.10	0.01	0.06	85.34	1
	12/13/99	24.24	trace	0.00	0.00	85.34	1
	2/9/00	23.95	0.07	0.05	0.31	85.64	1
	2/15/00	--	0.00	0.00	0.00	85.64	2
	2/25/00	23.69	0.00	0.06	0.38	86.03	2
	3/3/00	23.27	0.00	0.05	0.31	86.33	2
MW-4	12/23/91	22.63	0.98	2.50	15.25	15.25	1
88.84	12/26/91	22.52	0.96	6.00	36.60	51.85	1
	1/10/92	22.74	0.99	5.00	30.50	82.35	1
	2/28/92	22.00	0.67	4.00	24.40	106.75	1
	3/11/92	21.71	0.55	3.50	21.35	128.10	1
	3/13/92	21.56	0.49	3.50	21.35	149.45	1
	3/17/92	25.46	0.44	2.25	13.73	163.18	1
	3/18/92	21.38	0.44	2.50	15.25	178.43	1
	3/19/92	21.33	0.48	1.50	9.15	187.58	1
	3/23/92	21.29	0.42	4.00	24.40	211.98	1
	3/24/92	21.31	0.38	1.50	9.15	221.13	1
	3/25/92	21.17	0.36	1.00	6.10	227.23	1
	3/26/92	21.08	0.35	1.00	6.10	233.33	1
	3/27/92	20.92	0.26	0.50	3.05	236.38	1
	3/31/92	21.15	0.44	0.50	3.05	239.43	1
	4/1/92	20.90	0.24	0.25	1.53	240.95	1
	4/2/92	20.90	0.17	0.13	0.79	241.74	1
	4/6/92	--	--	0.13	0.79	242.54	1
	4/10/92	20.91	0.33	0.25	1.53	244.06	1
	4/13/92	21.04	0.42	0.25	1.53	245.59	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
	4/20/92	20.74	0.19	0.13	0.79	246.38	1
	5/4/92	20.83	0.33	0.13	0.79	247.17	1
	5/18/92	21.33	0.23	0.13	0.79	247.97	1
	5/26/92	20.83	0.17	0.13	0.79	248.76	1
	6/1/92	20.85	0.19	0.06	0.37	249.12	1
	6/29/92	21.38	0.53	0.25	1.53	250.65	1
	7/29/92	21.69	0.56	1.11	6.77	257.42	1
	8/28/92	21.35	0.63	1.68	10.25	267.67	1
	4/3/93	20.11	0.51	0.13	0.79	268.46	1
	11/9/93	20.48	0.52	0.03	0.18	268.64	1
	8/30/95	21.71	0.63	1.75	10.68	279.32	1
	10/2/95	19.90	2.20	0.50	3.05	282.37	1
	11/3/95	18.76	0.57	0.25	1.53	283.89	1
	11/30/95	19.17	0.65	0.25	1.53	285.42	1
	1/3/96	19.45	0.44	0.05	0.31	285.72	1
	2/2/96	19.50	0.32	0.10	0.61	286.33	1
	3/1/96	19.31	0.20	0.20	1.22	287.55	1
	4/4/96	17.53	0.18	0.20	1.22	288.77	1
	5/2/96	17.50	0.25	0.20	1.22	289.99	1
	6/5/96	17.67	0.39	0.15	0.92	290.91	1
	7/9/96	18.29	0.50	0.16	0.98	291.89	1
	8/8/96	18.84	0.00	0.00	0.00	291.89	1
	9/10/96	19.31	0.34	0.05	0.31	292.19	1
	10/1/96	19.51	0.29	0.05	0.31	292.50	1
	11/4/96	20.13	0.35	0.02	0.12	292.62	1
	12/2/96	20.23	0.33	0.02	0.12	292.74	1
	1/3/97	19.33	0.10	0.02	0.12	292.86	1
	2/6/97	18.13	0.01	0.01	0.06	292.92	1
	4/30/99	17.28	trace	0.00	0.00	292.92	1
	2/9/00	19.76	0.00	0.00	0.00	292.92	1
	2/15/00	--	0.00	0.00	0.00	292.92	2
	2/25/00	19.30	0.00	0.00	0.00	292.92	2
MW-6	12/23/91	28.40	3.21	7.50	45.75	45.75	1
85.62	12/26/91	27.25	1.67	2.00	12.20	57.95	1
	1/10/92	27.23	0.90	1.00	6.10	64.05	1
	2/4/92	27.71	2.04	2.00	12.20	76.25	1
	2/28/92	27.92	3.00	3.00	18.30	94.55	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
	3/10/92	27.16	2.06	2.75	16.78	111.33	1
	3/12/92	25.96	0.52	2.00	12.20	123.53	1
	3/23/92	26.34	1.09	1.00	6.10	129.63	1
	3/30/92	25.73	0.35	0.50	3.05	132.68	1
	4/10/92	25.29	0.05	0.25	1.53	134.20	1
	4/13/92	25.52	0.21	0.13	0.79	134.99	1
	4/20/92	25.38	0.10	0.13	0.79	135.79	1
	5/4/92	25.40	--	0.13	0.79	136.58	1
	5/8/92	25.50	0.17	0.06	0.37	136.95	1
	5/26/92	25.46	0.13	0.13	0.79	137.74	1
	6/1/92	25.46	0.09	0.06	0.37	138.10	1
	6/29/92	25.59	0.14	0.19	1.16	139.26	1
	7/29/92	26.90	1.71	0.60	3.66	142.92	1
	8/28/92	25.09	2.62	2.40	14.64	157.56	1
	12/2/92	--	--	0.00	0.00	157.56	1
	4/3/93	26.96	2.86	1.75	10.68	168.24	1
	11/9/93	27.51	3.06	0.83	5.06	173.30	1
	8/30/95	28.00	7.96	4.50	27.45	200.75	1
	10/2/95	28.24	6.14	4.00	24.40	225.15	1
	11/3/95	28.39	6.13	3.00	18.30	243.45	1
	11/30/95	26.91	3.44	2.50	15.25	258.70	1
	1/3/96	27.58	4.41	2.50	15.25	273.95	1
	2/2/96	27.58	4.37	5.00	30.50	304.45	1
	3/1/96	27.96	5.15	4.00	24.40	328.85	1
	4/4/96	27.96	5.41	5.00	30.50	359.35	1
	5/2/96	26.83	4.66	4.50	27.45	386.80	1
	6/5/96	27.15	5.17	4.00	24.40	411.20	1
	7/9/96	27.08	4.86	4.50	27.45	438.65	1
	8/8/96	26.71	4.05	4.00	24.40	463.05	1
	9/10/96	26.83	3.82	3.50	21.35	484.40	1
	10/1/96	26.96	3.77	4.00	24.40	508.80	1
	11/4/96	--	--	NM	NM	NM	4
86.94	12/2/96	--	--	NM	NM	NM	4
	1/3/97	--	--	NM	NM	NM	4
	2/6/97	25.08	0.20	NM	NM	NM	4
	3/5/97	24.20	0.00	NM	NM	NM	4
	4/1/97	24.04	0.00	NM	NM	NM	4
	5/8/97	26.54	1.88	0.40	2.44	511.24	1

CAMBRIA

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
	6/6/97	25.33	0.21	0.03	0.18	511.42	1
	7/8/97	25.30	0.07	0.00	0.00	511.42	1
	8/7/97	25.52	0.00	0.00	0.00	511.42	1
	9/10/97	25.76	0.00	0.00	0.00	511.42	1
	10/1/97	25.12	0.00	0.00	0.00	511.42	1
	11/4/97	26.16	0.18	0.02	0.12	511.55	1
	12/4/97	26.08	0.16	0.05	0.31	511.85	1
	1/8/98	25.79	0.10	0.66	4.03	515.88	1
	2/5/98	25.31	0.89	NM	NM	NM	4
	3/6/98	24.63	0.46	0.04	0.24	516.12	1
85.82	4/2/98	24.45	0.59	0.10	0.61	516.73	1
	4/29/98	22.96	0.55	0.09	0.55	517.28	1
	6/3/98	22.81	0.41	0.03	0.18	517.46	1
	7/9/98	23.04	0.35	0.05	0.31	517.77	1
	8/4/98	23.29	0.35	0.04	0.24	518.01	1
	8/26/98	23.50	0.31	0.01	0.06	518.07	1
	11/2/98	24.24	0.43	0.02	0.12	518.20	1
	12/4/98	24.35	0.32	0.01	0.06	518.26	1
	1/5/99	24.51	0.40	0.03	0.18	518.44	1
	2/8/99	24.00	0.03	0.13	0.76	519.20	1
	3/24/99	23.82	0.19	0.03	0.18	519.38	1
	4/30/99	23.60	1.13	0.10	0.61	519.99	1
	7/1/99	24.45	0.42	0.06	0.38	520.38	1
	7/27/99	25.35	0.24	0.06	0.38	520.76	1
	8/19/99	24.87	0.24	0.06	0.37	521.12	1
	9/21/99	24.58	0.10	0.20	1.22	522.34	1
	10/20/99	25.05	0.17	0.20	1.22	523.56	1
	12/13/99	25.08	0.10	0.06	0.37	523.93	1
	2/9/00	24.93	0.44	0.25	1.53	525.45	1
	2/15/00	--	0.00	0.07	0.43	525.88	3
	2/25/00	24.23	0.00	0.01	0.06	525.94	3
	3/3/00	24.00	0.00	0.00	0.01	525.95	3
MW-9 90.37	8/8/96	19.89	0.35	0.10	0.61	0.61	1
MW-14 94.66	12/4/98	23.42	0.23	0.01	0.06	0.06	1
	1/5/99	23.36	0.12	0.01	0.06	0.12	1

CAMBRIA

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
	2/8/99	23.17	trace	0.01	0.06	0.18	1
	3/24/99	22.08	trace	trace	0.00	0.18	1
	4/30/99	21.17	0.01	trace	0.00	0.18	1
	7/1/99	22.95	0.04	trace	0.00	0.18	1
	9/21/99	24.26	trace	trace	0.00	0.18	1
	10/20/99	24.10	0.00	0.00	0.00	0.18	1
	2/9/00	24.13	0.00	0.00	0.00	0.18	1
	2/15/00	--	0.00	0.00	0.00	0.18	1
	2/25/00	--	0.00	0.00	0.00	0.18	2
	3/3/00	23.27	0.00	0.05	0.31	0.49	2
MW-15	9/20/99	24.12	trace	trace	0.00	0.00	1
94.76	10/20/99	24.40	0.00	0.00	0.00	0.00	1
	12/13/99	24.61	0.00	0.00	0.00	0.00	1

Abbreviations and Notes:

NM = 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

-- = Not measured or not applicable

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

ATTACHMENT A

Analytical Laboratory Report



McCAMPBELL 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

Cambria Environmental Technology 1144 65 th Street, Suite C Oakland, CA 94608	Client Project ID: #425-1580; Connell Auto	Date Sampled: 02/09/2000
	Client Contact: Mark Erickson	Date Received: 02/10/2000
	Client P.O:	Date Extracted: 02/14-02/16/2000
		Date Analyzed: 02/14-02/16/2000

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	30971	30972	30973	30974
Client ID	MW-4	MW-7	MW-8	MW-9
Matrix	W	W	W	W
Compound	Concentration			
Bromodichloromethane	ND<5.0	ND	ND	ND<5.0
Bromoform ^(b)	ND<5.0	ND	ND	ND<5.0
Bromomethane	ND<5.0	ND	ND	ND<5.0
Carbon Tetrachloride ^(c)	ND<5.0	ND	ND	ND<5.0
Chlorobenzene	5.9	ND	ND	ND<5.0
Chloroethane	ND<5.0	ND	ND	ND<5.0
2-Chloroethyl Vinyl Ether ^(d)	ND<5.0	ND	ND	ND<5.0
Chloroform ^(e)	ND<5.0	ND	ND	ND<5.0
Chloromethane	ND<5.0	ND	ND	ND<5.0
Dibromochloromethane	ND<5.0	ND	ND	ND<5.0
1,2-Dichlorobenzene	ND<5.0	ND	ND	ND<5.0
1,3-Dichlorobenzene	5.9	ND	ND	ND<5.0
1,4-Dichlorobenzene	ND<5.0	ND	ND	ND<5.0
Dichlorodifluoromethane	ND<5.0	ND	ND	ND<5.0
1,1-Dichloroethane	ND<5.0	ND	ND	ND<5.0
1,2-Dichloroethane	100	ND	40	360
1,1-Dichloroethene	ND<5.0	ND	ND	ND<5.0
cis 1,2-Dichloroethene	ND<5.0	ND	ND	ND<5.0
trans 1,2-Dichloroethene	ND<5.0	ND	ND	ND<5.0
1,2-Dichloropropane	ND<5.0	ND	ND	ND<5.0
cis 1,3-Dichloropropene	ND<5.0	ND	ND	ND<5.0
trans 1,3-Dichloropropene	ND<5.0	ND	ND	ND<5.0
Methylene Chloride ^(f)	ND<5.0	ND	ND	ND<100
1,1,2,2-Tetrachloroethane	ND<5.0	ND	ND	ND<5.0
Tetrachloroethene	ND<5.0	ND	ND	ND<5.0
1,1,1-Trichloroethane	ND<5.0	ND	ND	ND<5.0
1,1,2-Trichloroethane	ND<5.0	ND	ND	ND<5.0
Trichloroethene	ND<5.0	ND	ND	ND<5.0
Trichlorofluoromethane	ND<5.0	ND	ND	ND<5.0
Vinyl Chloride ^(g)	ND<5.0	ND	ND	ND<5.0
% Recovery Surrogate	114	98	97	102
Comments	h			

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.



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	Client P.O:	Date Extracted: 02/14-02/16/2000
		Date Analyzed: 02/14-02/16/2000

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	30975	30976	30977	
Client ID	MW-13	MW-14	MW-15	
Matrix	W	W	W	
Compound	Concentration			
Bromodichloromethane	ND	ND<10	ND<50	
Bromoform ^(b)	ND	ND<10	ND<50	
Bromomethane	ND	ND<10	ND<50	
Carbon Tetrachloride ^(c)	ND	ND<10	ND<50	
Chlorobenzene	ND	ND<10	ND<50	
Chloroethane	ND	ND<10	ND<50	
2-Chloroethyl Vinyl Ether ^(d)	ND	ND<10	ND<50	
Chloroform ^(e)	ND	ND<10	ND<50	
Chloromethane	ND	ND<10	ND<50	
Dibromochloromethane	ND	ND<10	ND<50	
1,2-Dichlorobenzene	ND	ND<10	ND<50	
1,3-Dichlorobenzene	ND	ND<10	ND<50	
1,4-Dichlorobenzene	ND	ND<10	ND<50	
Dichlorodifluoromethane	ND	ND<10	ND<50	
1,1-Dichloroethane	ND	ND<10	ND<50	
1,2-Dichloroethane	2.1	450	1100	
1,1-Dichloroethene	ND	ND<10	ND<50	
cis 1,2-Dichloroethene	ND	ND<10	ND<50	
trans 1,2-Dichloroethene	ND	ND<10	ND<50	
1,2-Dichloropropane	ND	ND<10	ND<50	
cis 1,3-Dichloropropene	ND	ND<10	ND<50	
trans 1,3-Dichloropropene	ND	ND<10	ND<50	
Methylene Chloride ^(f)	ND<10	ND<15	ND<80	
1,1,2,2-Tetrachloroethane	ND	ND<10	ND<50	
Tetrachloroethene	ND	ND<10	ND<50	
1,1,1-Trichloroethane	ND	ND<10	ND<50	
1,1,2-Trichloroethane	ND	ND<10	ND<50	
Trichloroethene	ND	ND<10	ND<50	
Trichlorofluoromethane	ND	ND<10	ND<50	
Vinyl Chloride ^(g)	ND	ND<10	ND<50	
% Recovery Surrogate	97	106	100	
Comments				

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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Cambria Environmental Technology 1144 65 th Street, Suite C Oakland, CA 94608	Client Project ID: #425-1580; Connell Auto	Date Sampled: 02/09/2000
	Client Contact: Mark Erickson	Date Received: 02/10/2000
	Client P.O:	Date Extracted: 02/11-02/15/2000
		Date Analyzed: 02/17-02/18/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	30971
Client ID	MW-4
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND<25	10	0.33	Di-n-octyl Phthalate	ND<25	10	0.33
Acenaphthylene	ND<25	10	0.33	1,2-Diphenylhydrazine	ND<25	10	0.33
Anthracene	ND<25	10	0.33	Fluoranthene	ND<25	10	0.33
Benidine	ND<130	50	1.6	Fluorene	ND<25	10	0.33
Benzoic Acid	ND<130	50	1.6	Hexachlorobenzene	ND<25	10	0.33
Benzo(a)anthracene	ND<25	10	0.33	Hexachlorobutadiene	ND<25	10	0.33
Benzo(b)fluoranthene	ND<25	10	0.33	Hexachlorocyclopentadiene	ND<130	50	1.6
Benzo(k)fluoranthene	ND<25	10	0.33	Hexachloroethane	ND<25	10	0.33
Benzo(g,h,i)perylene	ND<25	10	0.33	Indeno(1,2,3-cd)pyrene	ND<25	10	0.33
Benzo(a)pyrene	ND<25	10	0.33	Isophorone	ND<25	10	0.33
Benzyl Alcohol	ND<50	20	0.66	2-Methylnaphthalene	290	10	0.33
Bis(2-chloroethoxy)methane	ND<25	10	0.33	2-Methylphenol (o-Cresol)	ND<25	10	0.33
Bis(2-chloroethyl) Ether	ND<25	10	0.33	4-Methylphenol (p-Cresol)	ND<25	10	0.33
Bis(2-chloroisopropyl)Ether	ND<25	10	0.33	Naphthalene	700	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<25	10	0.33	2-Nitroaniline	ND,130	50	1.6
4-Bromophenyl Phenyl Ether	ND<25	10	0.33	3-Nitroaniline	ND<130	50	1.6
Butylbenzyl Phthalate	ND<25	10	0.33	4-Nitroaniline	ND<130	50	1.6
4-Chloroaniline	ND<50	20	0.66	2-Nitrophenol	ND<130	50	1.6
4-Chloro-3-methylpheno ^l	ND<25	10	0.33	4-Nitrophenol	ND<130	50	1.6
2-Chloronaphthalene	ND<25	10	0.33	Nitrobenzene	ND<25	10	0.33
2-Chlorophenol	ND<25	10	0.33	N-Nitrosodimethylamine	ND<25	10	0.33
4-Chlorophenyl Phenyl Ether	ND<25	10	0.33	N-Nitrosodiphenylamine	ND<25	10	0.33
Chrysene	ND<25	10	0.33	N-Nitrosodi-n-propylamine	ND<25	10	0.33
Dibenzo(a,h)anthracene	ND<25	10	0.33	Pentachlorophenol	ND,130	50	0.33
Dibenzofuran	ND<25	10	0.33	Phenanthrene	ND<25	10	0.33
Di-n-butyl Phthalate	ND<25	10	0.33	Phenol	ND<25	10	0.33
1,2-Dichlorobenzene	ND<25	10	0.33	Pyrene	ND<25	10	0.33
1,3-Dichlorobenzene	ND<25	10	0.33	1,2,4-Trichlorobenzene	ND<25	10	0.33
1,4-Dichlorobenzene	ND<25	10	0.33	2,4,5-Trichlorophenol	ND<25	10	0.33
3,3-Dichlorobenzidine	ND<50	20	0.66	2,4,6-Trichlorophenol	ND<25	10	0.33
2,4-Dichlorophenol	ND<25	10	0.33	Comments:			
Diethyl Phthalate	ND<25	10	0.33	Surrogate Recoveries (%)			
2,4-Dimethylphenol	ND<25	10	0.33	2-Fluorobiphenyl			---
Dimethyl Phthalate	ND<25	10	0.33	2-Fluorophenol			---
4,6-Dinitro-2-methylphenol	ND<130	50	1.6	Nitrobenzene-d5			42
2,4-Dinitrophenol	ND<130	50	1.6	Phenol-d5			50
2,4-Dinitrotoluene	ND<25	10	0.33	2,4,6-Tribromophenol			47
2,6-Dinitrotoluene	ND<25	10	0.33	p-Terphenyl-d14			53

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

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

* surrogate diluted out of range

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

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		Date Analyzed: 02/17-02/18/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	30972
Client ID	MW-7
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	4-Methylphenol (p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroaniline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno ^l	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	0.33
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	Surrogate Recoveries (%)			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorobiphenyl		41	
Dimethyl Phthalate	ND	10	0.33	2-Fluorophenol		34	
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5		60	
2,4-Dinitrophenol	ND	50	1.6	Phcnol-d5		62	
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol		51	
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14		60	

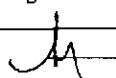
*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

* surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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Cambria Environmental Technology 1144 65 th Street, Suite C Oakland, CA 94608	Client Project ID: #425-1580; Connell Auto	Date Sampled: 02/09/2000
	Client Contact: Mark Erickson	Date Received: 02/10/2000
	Client P.O:	Date Extracted: 02/11-02/15/2000
		Date Analyzed: 02/17-02/18/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	30973						
Client ID	MW-8						
Matrix	W						
Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzydine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	4-Methylphenol (p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroaniline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno ^l	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	0.33
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	Surrogate Recoveries (%)			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorobiphenyl		49	
Dimethyl Phthalate	ND	10	0.33	2-Fluorophenol		42	
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5		61	
2,4-Dinitrophenol	ND	50	1.6	Phenol-d5		62	
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol		55	
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14		59	

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

* surrogate diluted out of range

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Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	4-Methylphenol (p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroaniline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno ^l	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	0.33
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	Surrogate Recoveries (%)			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorobiphenyl			44
Dimethyl Phthalate	ND	10	0.33	2-Fluorophenol			42
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5			56
2,4-Dinitrophenol	ND	50	1.6	Phenol-d5			59
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol			58
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14			60

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPL extracts in ug/L

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

* surrogate diluted out of range

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Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	30975
Client ID	MW-13
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	4-Methylphenol (p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroaniline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno ^l	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	0.33
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	Surrogate Recoveries (%)			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorobiphenyl		32	
Dimethyl Phthalate	ND	10	0.33	2-Fluorophenol		31	
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5		58	
2,4-Dinitrophenol	ND	50	1.6	Phenol-d5		49	
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol		33	
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14		47	

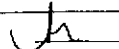
*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

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

* surrogate diluted out of range

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

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Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND<25	10	0.33	Di-n-octyl Phthalate	ND<25	10	0.33
Acenaphthylene	ND<25	10	0.33	1,2-Diphenylhydrazine	ND<25	10	0.33
Anthracene	ND<25	10	0.33	Fluoranthene	ND<25	10	0.33
Benzidine	ND<130	50	1.6	Fluorene	ND<25	10	0.33
Benzoic Acid	ND<130	50	1.6	Hexachlorobenzene	ND<25	10	0.33
Benzo(a)anthracene	ND<25	10	0.33	Hexachlorobutadiene	ND<25	10	0.33
Benzo(b)fluoranthene	ND<25	10	0.33	Hexachlorocyclopentadiene	ND<130	50	1.6
Benzo(k)fluoranthene	ND<25	10	0.33	Hexachloroethane	ND<25	10	0.33
Benzo(g,h,i)perylene	ND<25	10	0.33	Indeno(1,2,3-cd)pyrene	ND<25	10	0.33
Benzo(a)pyrene	ND<25	10	0.33	Isophorone	ND<25	10	0.33
Benzyl Alcohol	ND<50	20	0.66	2-Methylnaphthalene	290	10	0.33
Bis(2-chloroethoxy)methane	ND<25	10	0.33	2-Methylphenol (o-Cresol)	ND<25	10	0.33
Bis(2-chloroethyl) Ether	ND<25	10	0.33	4-Methylphenol (p-Cresol)	ND<25	10	0.33
Bis(2-chloroisopropyl)Ether	ND<25	10	0.33	Naphthalene	600	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<25	10	0.33	2-Nitroaniline	ND<130	50	1.6
4-Bromophenyl Phenyl Ether	ND<25	10	0.33	3-Nitroaniline	ND<130	50	1.6
Butylbenzyl Phthalate	ND<25	10	0.33	4-Nitroaniline	ND<130	50	1.6
4-Chloroaniline	ND<50	20	0.66	2-Nitrophenol	ND<130	50	1.6
4-Chloro-3-methylpheno ^l	ND<25	10	0.33	4-Nitrophenol	ND<130	50	1.6
2-Chloronaphthalene	ND<25	10	0.33	Nitrobenzene	ND<25	10	0.33
2-Chlorophenol	ND<25	10	0.33	N-Nitrosodimethylamine	ND<25	10	0.33
4-Chlorophenyl Phenyl Ether	ND<25	10	0.33	N-Nitrosodiphenylamine	ND<25	10	0.33
Chrysene	ND<25	10	0.33	N-Nitrosodi-n-propylamine	ND<25	10	0.33
Dibenzo(a,h)anthracene	ND<25	10	0.33	Pentachlorophenol	ND<130	50	0.33
Dibenzofuran	ND<25	10	0.33	Phenanthrene	ND<25	10	0.33
Di-n-butyl Phthalate	ND<25	10	0.33	Phenol	ND<25	10	0.33
1,2-Dichlorobenzene	ND<25	10	0.33	Pyrene	ND<25	10	0.33
1,3-Dichlorobenzene	ND<25	10	0.33	1,2,4-Trichlorobenzene	ND<25	10	0.33
1,4-Dichlorobenzene	ND<25	10	0.33	2,4,5-Trichlorophenol	ND<25	10	0.33
3,3-Dichlorobenzidine	ND<50	20	0.66	2,4,6-Trichlorophenol	ND<25	10	0.33
2,4-Dichlorophenol	ND<25	10	0.33	Comments:			
Diethyl Phthalate	ND<25	10	0.33	Surrogate Recoveries (%)			
2,4-Dimethylphenol	ND<25	10	0.33	2-Fluorobiphenyl			---
Dimethyl Phthalate	ND<25	10	0.33	2-Fluorophenol			---
4,6-Dinitro-2-methylphenol	ND<130	50	1.6	Nitrobenzene-d5			39
2,4-Dinitrophenol	ND<130	50	1.6	Phenol-d5			48
2,4-Dinitrotoluene	ND<25	10	0.33	2,4,6-Tribromophenol			48
2,6-Dinitrotoluene	ND<25	10	0.33	p-Terphenyl-d14			50

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPL extracts in ug/L

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Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND<50	10	0.33	Di-n-octyl Phthalate	ND<50	10	0.33
Acenaphthylene	ND<50	10	0.33	1,2-Diphenylhydrazine	ND<50	10	0.33
Anthracene	ND<50	10	0.33	Fluoranthene	ND<50	10	0.33
Benzidine	ND<250	50	1.6	Fluorene	ND<50	10	0.33
Benzoic Acid	ND<250	50	1.6	Hexachlorobenzene	ND<50	10	0.33
Benzo(a)anthracene	ND<50	10	0.33	Hexachlorobutadiene	ND<50	10	0.33
Benzo(b)fluoranthene	ND<50	10	0.33	Hexachlorocyclopentadiene	ND<250	50	1.6
Benzo(k)fluoranthene	ND<50	10	0.33	Hexachloroethane	ND<50	10	0.33
Benzo(g,h,i)perylene	ND<50	10	0.33	Indeno(1,2,3-cd)pyrene	ND<50	10	0.33
Benzo(a)pyrene	ND<50	10	0.33	Isophorone	ND<50	10	0.33
Benzyl Alcohol	ND<100	20	0.66	2-Methylnaphthalene	50	10	0.33
Bis(2-chloroethoxy)methane	ND<50	10	0.33	2-Methylphenol (o-Cresol)	ND<50	10	0.33
Bis(2-chloroethyl) Ether	ND<50	10	0.33	4-Methylphenol (p-Cresol)	ND<50	10	0.33
Bis(2-chloroisopropyl)Ether	ND<50	10	0.33	Naphthalene	270	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<50	10	0.33	2-Nitroaniline	ND<250	50	1.6
4-Bromophenyl Phenyl Ether	ND<50	10	0.33	3-Nitroaniline	ND<250	50	1.6
Butylbenzyl Phthalate	ND<50	10	0.33	4-Nitroaniline	ND<250	50	1.6
4-Chloroaniline	ND<100	20	0.66	2-Nitrophenol	ND<250	50	1.6
4-Chloro-3-methylpheno ^l	ND<50	10	0.33	4-Nitrophenol	ND<250	50	1.6
2-Chloronaphthalene	ND<50	10	0.33	Nitrobenzene	ND<50	10	0.33
2-Chlorophenol	ND<50	10	0.33	N-Nitrosodimethylamine	ND<50	10	0.33
4-Chlorophenyl Phenyl Ether	ND<50	10	0.33	N-Nitrosodiphenylamine	ND<50	10	0.33
Chrysene	ND<50	10	0.33	N-Nitrosodi-n-propylamine	ND<50	10	0.33
Dibenzo(a,h)anthracene	ND<50	10	0.33	Pentachlorophenol	ND<250	50	0.33
Dibenzofuran	ND<50	10	0.33	Phenanthrene	ND<50	10	0.33
Di-n-butyl Phthalate	ND<50	10	0.33	Phenol	ND<50	10	0.33
1,2-Dichlorobenzene	ND<50	10	0.33	Pyrene	ND<50	10	0.33
1,3-Dichlorobenzene	ND<50	10	0.33	1,2,4-Trichlorobenzene	ND<50	10	0.33
1,4-Dichlorobenzene	ND<50	10	0.33	2,4,5-Trichlorophenol	ND<50	10	0.33
3,3-Dichlorobenzidine	ND<100	20	0.66	2,4,6-Trichlorophenol	ND<50	10	0.33
2,4-Dichlorophenol	ND<50	10	0.33	Comments:			
Diethyl Phthalate	ND<50	10	0.33	Surrogate Recoveries (%)			
2,4-Dimethylphenol	ND<50	10	0.33	2-Fluorobiphenyl		---	
Dimethyl Phthalate	ND<50	10	0.33	2-Fluorophenol		---	
4,6-Dinitro-2-methylphenol	ND<250	50	1.6	Nitrobenzene-d5		32	
2,4-Dinitrophenol	ND<250	50	1.6	Phenol-d5		40	
2,4-Dinitrotoluene	ND<50	10	0.33	2,4,6-Tribromophenol		---	
2,6-Dinitrotoluene	ND<50	10	0.33	p-Terphenyl-d14		45	

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

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

* surrogate diluted out of range

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

 Edward Hamilton, Lab Director



McCAMPBELL ANALYTICAL INC.

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<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Environmental Technology 1144 65 th Street, Suite C Oakland, CA 94608	Client Project ID: #425-1580; Connell Auto	Date Sampled: 02/09/2000
	Client Contact: Mark Erickson	Date Received: 02/10/2000
	Client P.O:	Date Extracted: 02/10/2000
		Date Analyzed: 02/10-02/12/2000

LUFT Metals*

EPA analytical methods 6010/200.7, 239.2*

Lab ID	Client ID	Matrix	Extraction ^o	Cadmium	Chromium	Lead	Nickel	Zinc	% Recovery Surrogate
30971	MW-4	W	TTLC	ND	0.017	0.068	ND	ND	110
30972	MW-7	W	TTLC	ND	0.014	0.0086	0.059	ND	110
30973	MW-8	W	TTLC	ND	ND	ND	ND	ND	100
30974	MW-9	W	TTLC	ND	0.082	0.029	0.16	0.13	119
30975	MW-13	W	TTLC	ND	0.012	0.015	ND	ND	110
30976	MW-14	W	TTLC	ND	0.21	0.024	2.5	0.28	105
30977	MW-15	W	TTLC	ND	0.14	1.8	0.22	0.15	112
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit	S	TTLC	0.5 mg/kg	0.5	3.0	2.0	1.0		
	W	TTLC	0.005 mg/L	0.005	0.005	0.05	0.05		
	---	STLC, TCLP	0.01 mg/L	0.05	0.2	0.05	0.05		

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

^o Lead is analysed using EPA method 6010 (ICP) for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples


^o EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA Title 22

^o surrogate diluted out of range; N/A means surrogate not applicable to this analysis

^o reporting limit raised due to matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

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QC REPORT

Date: 02/11/00-02/12/00 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 21100

Instrument: GC-3

Surrogate1	0.000	101.0	102.0	100.00	101	102	1.0
Xylenes	0.000	293.0	294.0	300.00	98	98	0.3
Ethyl Benzene	0.000	96.0	97.0	100.00	96	97	1.0
Toluene	0.000	100.0	101.0	100.00	100	101	1.0
Benzene	0.000	104.0	105.0	100.00	104	105	1.0
MTBE	0.000	96.0	92.0	100.00	96	92	4.3
GAS	0.000	901.4	913.2	1000.00	90	91	1.3

SampleID: 21600

Instrument: GC-2 B

Surrogate1	0.000	106.0	106.0	100.00	106	106	0.0
TPH (diesel)	0.000	328.0	325.0	300.00	109	108	0.9

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2100$$

RPD means Relative Percent Deviation



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QC REPORT

EPA 8010/8020/EDB

Date: 02/13/00-02/14/00 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	

SampleID: 21600

Instrument: GC-1

Surrogate1	0.000	97.0	103.0	100.00	97	103	6.0
Chlorobenzene	0.000	95.0	100.0	100.00	95	100	5.1
Trichloroethane	0.000	97.0	103.0	100.00	97	103	6.0
1,1-DCE	0.000	117.0	112.0	100.00	117	112	4.4

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{AmountSpiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2.100$$

RPD means Relative Percent Deviation



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QC REPORT

SVOCs (EPA 8270/625/525)

Date: 02/16/00-02/17/00 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 29623

Instrument: GC-8

Surrogate1	0.000	350.0	400.0	100.00	350	400	13.3
Pyrene	0.000	320.0	340.0	1000.00	32	34	6.1
Pentachlorophenol	0.000	380.0	420.0	1000.00	38	42	10.0
2,4-Dinitrotoluene	0.000	310.0	340.0	1000.00	31	34	9.2
Acenaphthene	0.000	330.0	380.0	1000.00	33	38	14.1
4-Nitrophenol	0.000	310.0	360.0	1000.00	31	36	14.9
4-Chloro-3-methylphenol	0.000	320.0	320.0	1000.00	32	32	0.0
1,2,4-trichlorobenzene	0.000	310.0	360.0	1000.00	31	36	14.9
N-nitroso-di-n-propyl	0.000	430.0	460.0	1000.00	43	46	6.7
1,4-Dichlorobenzene	0.000	320.0	380.0	1000.00	32	38	17.1
2-Chlorophenol	0.000	300.0	330.0	1000.00	30	33	9.5
Phenol	0.000	310.0	320.0	1000.00	31	32	3.2

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

LUFT

Date: 02/12/00-02/13/00 Matrix: Water

Extraction: TTLC

Compound	Concentration: mg/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 21200

Instrument: ICP-1

Surrogate1	0.000	102.2	108.3	100.00	102	108	5.8
Copper	0.000	5.2	5.0	5.00	103	101	2.7
Zinc	0.000	5.6	5.8	5.00	112	115	3.2
Lead	0.000	5.3	5.3	5.00	106	106	0.5
Nickel	0.000	5.2	5.5	5.00	104	110	6.1
Chromium	0.000	5.0	5.3	5.00	100	107	6.2
Cadmium	0.000	5.9	5.7	5.00	118	115	2.8

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

18905 2c 117.doc

McCAMPBELL ANALYTICAL INC.

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CHAIN OF CUSTODY RECORD

TURN AROUND TIME RUSH 24 HOUR 48 HOUR 5 DAY

Report To: Mark Erickson Bill To: CAMBRIA

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

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

Project #: 425-1580 Project Name: CONNELL AUTO

Project Location: 3093 BROADWAY, OAKLAND CA

Sampler Signature: [Signature]

Analysis Request Other Comments

SAMPLE ID	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 (8270) SVOCs	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals Pb, Cr, Cd, Zn, Ni	Lead (7240/7421/239.2/6010)	RCI	TPH mg / TPHd 8015	multi range	Comments			
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other																					
x MW-4		2/9/00	12:15	8	*	X							X												X										30971
x MW-7			1:40	8	*																				X										30972
x MW-8			12:45	8	*																														30973
x MW-9			15:00	8	*																														30974
x MW-13			1:05	8	*																														30975
x MW-14			3:25	8	*																														30976
x MW-15			2:40	8	*																														30977

ICE: GOOD CONDITION HEAD SPACE ABSENT
 PRESERVATION: APPROPRIATE CONTAINERS
 VOAS: O&G METALS: OTHER:

Relinquished By: [Signature] Date: 2/10/00 Time: 10:25 Received By: D. Wick
 Relinquished By: [Signature] Date: 2/10/00 Time: 15:30 Received By: [Signature]
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

Remarks: 5 VOAS ; 3 for MTBE, BTEX, TPHg, 2 for HWC
PER SAMPLE ID
2 - 1 l AMBERS ; 1 for TPHd, 1 for SVOC
1 - 1/2 l PLASTIC for METALS.

WELL DEPTH MEASUREMENTS

Well ID	Time	Product Depth	Water Depth	Product Thickness	Well Depth	Comments
MW-1	11:14	23.88'	23.95'	0.07'		SPH
MW-4	11:23		19.76'		26.00	
MW-6	10:55	24.49'	24.93'	0.44'	33.08	SPH.
MW-7	11:05		16.74'		30.00	
MW-8	11:00		26.60'		39.50	
MW-9	11:29		21.08'		30.00	
MW-13	10:48		23.84'		39.00	
MW-14	11:06		24.13'		38.45'	
MW-15	11:10		24.42		37.55'	

Project Name: CONNELL AUTO DEALERSHIP

Project Number: 425-1580

Measured By: ME / RWS

Date: 2/9/00

WELL SAMPLING FORM

Project Name: <i>Connell</i>	Cambria Mgr: <i>RWS</i>	Well ID: <i>MW-1</i>
Project Number: <i>425-1580</i>	Date: <i>2/9/00</i>	Well Yield: <i>—</i>
Site Address: <i>3093 Broadway Oakland</i>	Sampling Method: <i>—</i>	Well Diameter: <i>2"</i>
		Technician(s): <i>ME/RWS</i>
Initial Depth to Water: <i>DTP 23.88 DTW 23.95</i>	Total Well Depth:	Water Column Height:
Volume/ft: <i>0.16</i>	1 Casing Volume: <i>—</i>	4 Casing Volumes: <i>—</i>
Purging Device: <i>—</i>	Did Well Dewater?: <i>—</i>	Total Gallons Purged: <i>—</i>
Start Purge Time: <i>—</i>	Stop Purge Time: <i>—</i>	Total Time: <i>—</i>

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

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

Time	Casing Volume	Temp.	pH	Cond.	Comments
					<i>Not purged or sampled</i>

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
			<i>SPT</i>	<i>—</i>		

WELL SAMPLING FORM

Project Name: <i>CONNELL</i>	Cambria Mgr: <i>RWS</i>	Well ID: <i>MW-4</i>
Project Number:	Date: <i>2/9/02</i>	Well Yield: <i>---</i>
Site Address:	Sampling Method:	Well Diameter: <i>2"</i>
		Technician(s): <i>ME</i>
Initial Depth to Water: <i>19.76'</i>	Total Well Depth: <i>26.00'</i>	Water Column Height: <i>6.24'</i>
Volume/ft: <i>0.16</i>	1 Casing Volume: <i>1 gal</i>	* Casing Volumes: <i>3 gal</i>
Purging Device:	Did Well Dewater?:	Total Gallons Purged:
Start Purge Time:	Stop Purge Time:	Total Time:

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

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

Time	Casing Volume	Temp. °C	pH	Cond. <i>MS</i>	Comments
<i>12:01</i>	<i>1</i>	<i>20.2</i>	<i>7.4</i>	<i>432</i>	<i>Sheen present</i>
<i>12:03</i>	<i>2</i>	<i>20.2</i>	<i>7.2</i>	<i>476</i>	
<i>12:05</i>	<i>3</i>	<i>20.2</i>	<i>7.0</i>	<i>340</i>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-4</i>	<i>2/9/02</i>	<i>12:15</i>				

WELL SAMPLING FORM

Project Name: <i>CConnell</i>	Cambria Mgr: <i>RWS</i>	Well ID: <i>MW-6</i>
Project Number: <i>425-1580</i>	Date: <i>2/9/00</i>	Well Yield: <i>—</i>
Site Address: <i>3039 Broadway</i>	Sampling Method: <i>—</i>	Well Diameter: <i>2"</i>
		Technician(s): <i>RWS/ME</i>
Initial Depth to Water: <i>DTW 24.93</i> <i>DTP 24.49</i>	Total Well Depth: <i>33.08</i>	Water Column Height: <i>—</i>
Volume/ft: <i>0.16</i>	1 Casing Volume: <i>—</i>	4 Casing Volumes: <i>—</i>
Purging Device: <i>—</i>	Did Well Dewater?: <i>—</i>	Total Gallons Purged: <i>—</i>
Start Purge Time: <i>—</i>	Stop Purge Time: <i>—</i>	Total Time: <i>—</i>

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

Note: water in box, cap not secure.

DTP 24.49
DTW 24.93

Well Diam.

Volume/ft (gallons)

2" 0.16
4" 0.65
6" 1.47

Time	Casing Volume	Temp.	pH	Cond.	Comments
		<i>Do not</i>	<i>purge</i>		
		<i>Do not</i>	<i>sample</i>		
					<i>Removed approx 0.5 gals. from well by hand bailing</i>

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method

WELL SAMPLING FORM

Project Name: <i>CONNELL</i>	Cambria Mgr: <i>RWS</i>	Well ID: <i>MW-7</i>
Project Number:	Date: <i>2/9/00</i>	Well Yield:
Site Address:	Sampling Method:	Well Diameter:
		Technician(s):
Initial Depth to Water: <i>16.74'</i>	Total Well Depth: <i>30.00'</i>	Water Column Height: <i>13.26'</i>
Volume/ft: <i>0.16"</i>	1 Casing Volume: <i>2.12 gal</i>	Casing Volumes: <i>6.4 gal</i>
Purging Device: <i>DISP. BAILER</i>	Did Well Dewater?: <i>NO.</i>	Total Gallons Purged: <i>6.5 gal</i>
Start Purge Time: <i>1:25</i>	Stop Purge Time: <i>1:40</i>	Total Time: <i>15 min</i>

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

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

Time	Casing Volume	Temp. °C	pH	Cond.	Comments
<i>1:26</i>	<i>1</i>	<i>19.4</i>	<i>7.5</i>	<i>MS</i> <i>490</i>	
<i>1:36</i>	<i>2</i>	<i>19.2</i>	<i>7.2</i>	<i>402</i>	
<i>1:39</i>	<i>3</i>	<i>19.2</i>	<i>7.0</i>	<i>608</i>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-7</i>	<i>2/9/00</i>	<i>1:40</i>				

WELL SAMPLING FORM

Project Name: <i>Connell</i>	Cambria Mgr: <i>RWS</i>	Well ID: <i>MW-8</i>
Project Number: <i>425-1580</i>	Date: <i>2/9/00</i>	Well Yield:
Site Address: <i>3039 Broadway Oakland</i>	Sampling Method: <i>disp. bailer</i>	Well Diameter: <i>6"</i>
		Technician(s): <i>ME</i>
Initial Depth to Water: <i>26.60'</i>	Total Well Depth: <i>39.58'</i>	Water Column Height: <i>12.9'</i>
Volume/ft: <i>1.47</i>	1 Casing Volume: <i>18.96 gal</i>	4 Casing Volumes: <i>56.9 gal</i>
Purging Device: <i>sub pump</i>	Did Well Dewater?: <i>no</i>	Total Gallons Purged: <i>57 gals</i>
Start Purge Time: <i>12:00</i>	Stop Purge Time: <i>12:30</i>	Total Time: <i>30 min.</i>

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

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

Time	Casing Volume	Temp.	pH	Cond. <i>NS</i>	Comments
<i>12:10</i>	<i>1</i>	<i>20.6</i>	<i>6.6</i>	<i>640</i>	
<i>12:18</i>	<i>2</i>	<i>20.8</i>	<i>6.5</i>	<i>257</i>	
<i>12:26</i>	<i>3</i>	<i>20.8</i>	<i>6.4</i>	<i>703</i>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-8</i>	<i>2/9</i>	<i>12:45</i>	<i>2 lants</i>	<i>-</i>		
			<i>5.02</i>	<i>40</i>		
			<i>1 500ml plas</i>	<i>-</i>		

WELL SAMPLING FORM

Project Name: <i>CONNELL</i>	Cambria Mgr: <i>RWS</i>	Well ID: <i>MW-9</i>
Project Number: <i>425-1580</i>	Date: <i>2/9/00</i>	Well Yield: <i>—</i>
Site Address: <i>3093 Broadway Oakland</i>	Sampling Method: <i>disp. bailer</i>	Well Diameter: <i>2"</i>
		Technician(s): <i>ME</i>
Initial Depth to Water: <i>21.08'</i>	Total Well Depth: <i>30.00'</i>	Water Column Height: <i>8.92'</i>
Volume/ft: <i>0.16</i>	1 Casing Volume: <i>1.43 gal</i>	4 Casing Volumes: <i>4.28 gal</i>
Purging Device: <i>DIS. BAILER</i>	Did Well Dewater?: <i>YES</i>	Total Gallons Purged: <i>3.0 gal's</i>
Start Purge Time: <i>14:00</i>	Stop Purge Time: <i>15:00</i>	Total Time: <i>60 min.</i>

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

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

Time	Casing Volume	Temp. °C	pH	Cond. <i>µS</i>	Comments
<i>14:05</i>	<i>1</i>	<i>20.5</i>	<i>6.7</i>	<i>1010</i>	
	<i>2</i>				
	<i>3</i>				<i>unable to complete purge - well dry</i>

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-9</i>	<i>2/9/00</i>	<i>15:00</i>				

WELL SAMPLING FORM

Project Name: <i>CONNELL</i>	Cambria Mgr: <i>RMS</i>	Well ID: <i>MW-13</i>
Project Number:	Date: <i>2/9/00</i>	Well Yield: <i>---</i>
Site Address:	Sampling Method:	Well Diameter: <i>2</i>
		Technician(s): <i>ME</i>
Initial Depth to Water: <i>23.84'</i>	Total Well Depth: <i>39.0'</i>	Water Column Height: <i>15.16'</i>
Volume/ft: <i>0.16</i>	1 Casing Volume: <i>2.42 gal</i>	4 Casing Volumes: <i>7.3 gal</i>
Purging Device: <i>DISP. BANNER</i>	Did Well Dewater?: <i>NO</i>	Total Gallons Purged: <i>7.3 gal</i>
Start Purge Time: <i>12:42</i>	Stop Purge Time: <i>12:55</i>	Total Time: <i>13 min</i>

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

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

Time	Casing Volume	Temp. °C	pH	Cond. <i>RMS</i>	Comments
<i>12:45</i>	<i>1</i>	<i>19.7</i>	<i>7.4</i>	<i>794</i>	
<i>12:49</i>	<i>2</i>	<i>19.3</i>	<i>7.1</i>	<i>699</i>	
<i>12:54</i>	<i>3</i>	<i>19.8</i>	<i>6.8</i>	<i>600</i>	

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-13</i>	<i>2/9/00</i>	<i>1:05</i>				

WELL SAMPLING FORM

Project Name: <u>CONNELL</u>		Cambria Mgr: <u>RWS</u>		Well ID: <u>NW-14</u>	
Project Number:		Date: <u>2/9/00</u>		Well Yield: <u> </u>	
Site Address:		Sampling Method:		Well Diameter: <u>2"</u>	
				Technician(s): <u>ME</u>	
Initial Depth to Water: <u>24.13'</u>		Total Well Depth: <u>38.45'</u>		Water Column Height: <u>14.32'</u>	
Volume/ft: <u>0.16</u>		1 Casing Volume: <u>2.89 gal</u>		4 Casing Volumes: <u>6.99 gal</u>	
Purging Device: <u>DISP. BALL</u>		Did Well Dewater?: <u>NO</u>		Total Gallons Purged: <u>7.9 gal</u>	
Start Purge Time: <u>3:03</u>		Stop Purge Time: <u>3:18</u>		Total Time: <u>15 min</u>	

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

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

Time	Casing Volume	Temp. °C	pH	Cond.	Comments
<u>3:08</u>	<u>1</u>	<u>19.5</u>	<u>7.0</u>	<u>MS</u>	
<u>3:12</u>	<u>2</u>	<u>19.3</u>	<u>7.1</u>	<u>597</u>	<u>SPRINKLE-BROWN</u>
<u>3:16</u>	<u>3</u>	<u>19.2</u>	<u>7.0</u>	<u>1025</u>	<u>VERY ODDTASTY</u>

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<u>NW-14</u>	<u>2/9/00</u>	<u>3:25</u>				

WELL SAMPLING FORM

Project Name: <i>CONNELL</i>	Cambria Mgr: <i>RWS</i>	Well ID: <i>MW-15</i>
Project Number:	Date: <i>2/9/00</i>	Well Yield:
Site Address:	Sampling Method: <i>BAILER</i>	Well Diameter: <i>2"</i>
		Technician(s): <i>MS</i>
Initial Depth to Water: <i>24.42'</i>	Total Well Depth: <i>37.55'</i>	Water Column Height: <i>13.13'</i>
Volume/ft: <i>0.16</i>	1 Casing Volume: <i>2.1942</i>	4 Casing Volumes: <i>6.3942</i>
Purging Device: <i>DISP. BAILER</i>	Did Well Dewater?: <i>NO</i>	Total Gallons Purged: <i>6.5942</i>
Start Purge Time: <i>2:18</i>	Stop Purge Time: <i>2:31</i>	Total Time: <i>13 min</i>

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

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

Time	Casing Volume	Temp. °C	pH	Cond.	Comments
<i>2:20</i>	<i>1</i>	<i>19.4</i>	<i>6.9</i>	<i>763</i>	<i>GREYISH-BROWN</i>
<i>2:25</i>	<i>2</i>	<i>19.5</i>	<i>6.8</i>	<i>938</i>	<i>BROWNISH WHITE</i>
<i>2:29</i>	<i>3</i>	<i>19.7</i>	<i>6.8</i>	<i>601</i>	<i>ODOROUS</i>

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
<i>MW-15</i>	<i>2/9/00</i>	<i>2:40</i>				

Product Removal Form Connell Automobile Dealership, Oakland, CA

By: TWS Date: 2/9/00

Project and Task #: 425-1580-1

Well	Treatment	Time	Gallons Removed*	DTW/DTP	Comments
MW-1	SoakEase hand-bail	12:00	0.05	DTP	23.88, DTW 23.95
MW-4	SoakEase Skimmer	12:15	0.00	19.76	No product in well
MW-6	Skimmer hand bail	12:30	0.25	DTP	24.49, DTW 24.93

* 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 1/2 quart (0.14 gal) of product.

Notes

Hand bailed MW-1 + MW-6. No product in MW-4 so installed SoakEase in MW-4 where sheen was heavier.

No. of Product Drums Onsite: _____

Drum capacity available: _____

Product Removal Form Connell Automobile Dealership, Oakland, CA

By: RWS / ME Date: 2/15/00

Project and Task #: 425-1580-1

Well	Treatment	Time	Gallons Removed*	DTW/DTP	Comments
MW-1	SoakEase	12:10	—	NM	some FP absorbed
MW-4	SoakEase	11:50	—	NM	minimal FP absorbed
MW-6	Skimmer	12:00	0.07	NM	receptacle 1/2 full

* 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 1/2 quart (0.14 gal) of product.

Notes MW-1 sock is functioning well. Lowered sock 12" and reinstalled. Will wring out + re install next week

MW-4 seen only this well. Will leave sock in place.

MW-6 Receptacle 1/2 full, emptied into small drum blockage in well may limit function of skimmer, however system is presently working well.

No. of Product Drums Onsite: 1 (5 gal. steel drum)

Drum capacity available: ~ 4.5 gals.

Product Removal Form Connell Automobile Dealership, Oakland, CA

By: M. ERIC KJAN

Date: 2/25/02

Project and Task #: 425-1580-1

Well	Treatment	Time	Gallons Removed*	DTW/DTP	Comments
MW-1	SoakEase	12:35	0.0625	23.69	NO PRODUCT THICKNESS ~8 oz. PRODUCT RECOVERED
MW-4	SoakEase	12:05	∅	19.30	NO PRODUCT COLLECTED NO PRODUCT THICKNESS
MW-6	Skimmer	12:20	0.01	24.25	1.5" OF PRODUCT IN SKIMMER.

* 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 1/2 quart (0.14 gal) of product.

Notes

MW-4: NO PRODUCT COLLECTED IN SOAKIE. REPLACED SOAK-EASE & LOWERED ADDITIONAL 2 INCHES TO INCREASE RECOVERY.

MW-6: ~1.5" PRODUCT IN SKIMMER. SKIMMER CATCHING ON EDGE OF WELL. LOWERED INTO WELL SEVERAL TIMES UNTIL ROPE WAS TAUGHT.

MW-1: SOAKEASE HAD MINIMAL SATURATION. REPLACE W/ NEW SOAKEASE.

No. of Product Drums Onsite: 1 - 7.5 GAL BUCKET.

Drum capacity available: 7.25 GAL

Product Removal Form Connell Automobile Dealership, Oakland, CA

By: MJE Date: 3/3/00

Project and Task #: 425-1580-1

Well	Treatment	Time	Gallons Removed*	DTW/DTP	Comments
MW-1	SoakEase	1:45	6/28 gal 0.05 gal	23.27	NO PRODUCT THICKNESS
MW-6	SoakEase Skimmer	1:27	0.002 gals	24.00	NO PRODUCT THICKNESS 1/4" ON BOTTOM OF SKIMMER
MW-14	SoakEase Skimmer	2:06	6/28 gal 0.05 gal	23.27	NO PRODUCT THICKNESS

* 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 1/2 quart (0.14 gal) of product.

Notes

MW-6: SKIMMER IS CATCHING ON INSIDE OF WELL AT ~ 27' DEPTH.
NO SPH THICKNESS FOUND WITH INTERFACE PROBE

MW-1: RING OUT SOAKEASE & REPLACE.
COLLECTED SIGNIFICANT PRODUCT ~ 6 OZ.

MW-14: RING OUT SOAKEASE & REPLACE.
COLLECTED SIGNIFICANT PRODUCT ~ 6 OZ.
PRODUCT LOOKS LIKE YOU COULD POUR IT INTO A TANK, NORMAL GASOLINE LOOKING.

No. of Product Drums Onsite: 11 TOTAL DRUMS

Drum capacity available: ~ 7.0 GALS
7.5 GAL DRUM.