

C A M B R I A

RO 327

April 27, 2004

Mr. Amir Gholami  
Alameda County Department of Environmental Health  
1131 Harbor Bay Parkway, Suit 250  
Alameda, CA 94502-6577

Re: **Groundwater Monitoring Report - First Quarter 2004**

Credit World Auto Sales  
2345 International Boulevard (Formerly E. 14<sup>th</sup> Street)  
Oakland, California 94601  
Case No. 2116  
Cambria Project No. 513-1000

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EPA REGION 9 OFFICE  
SAN FRANCISCO



Dear Mr. Gholami:

On behalf of Mr. Stanley and Mr. Aaron Wong, Cambria Environmental Technology, Inc. (Cambria) has prepared this groundwater monitoring report for the above-referenced site. Presented in the report are the first quarter 2004 activities and the anticipated second quarter 2004 activities.

If you have any questions or comments regarding this report, please call me at (510) 420-3305.

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

Gretchen Hellmann  
Project Engineer

Attachments: Groundwater Monitoring Report - First Quarter 2004

cc: Mr. Stanley and Mr. Aaron Wong, 2200 E. 12<sup>th</sup> Street, Oakland, California 94606

**Cambria  
Environmental  
Technology, Inc.**

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

# C A M B R I A

## GROUNDWATER MONITORING REPORT - FIRST QUARTER 2004

**Credit World Auto Sales  
2345 International Boulevard  
(Formerly E. 14<sup>th</sup> Street)  
Oakland, California 94601  
Case No. 2116  
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**April 27, 2004**

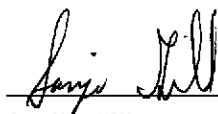
*Prepared for:*

Mr. Stanley and Mr. Aaron Wong  
2200 E. 12<sup>th</sup> Street  
Oakland, California 94606

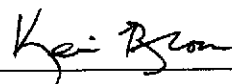
*Prepared by:*

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

*Written by:*



Sanjiv Gill  
Staff Scientist



Kevin Brown, R.G., C.E.G.  
Senior Geologist



EMERGENCY CONTACT  
510.426.1000  
www.cambriaenv.com

## GROUNDWATER MONITORING REPORT - FIRST QUARTER 2004

World Credit Auto Sales  
2345 International Boulevard  
(Formerly E. 14<sup>th</sup> Street)  
Oakland, California 94601  
Case No. 2116  
Cambria Project No. 513-1000

April 27, 2004



### INTRODUCTION

On behalf of Mr. Stanley and Mr. Aaron Wong, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring Report - First Quarter 2004* for the above-referenced site. Presented in the report are the first quarter 2004 activities and results, and the anticipated second quarter 2004 activities.

### FIRST QUARTER 2004 ACTIVITIES

#### Monitoring Activities

*Field Activities:* On March 12, 2004, Cambria conducted quarterly monitoring activities at this site. Cambria gauged water levels and measured separate-phase hydrocarbon (SPH) levels in monitoring wells MW-1, MW-2, MW-3, TMW-4, TMW-5, and MW-6 (Figure 1). Due to the presence of SPH, no groundwater samples were collected for analysis. Groundwater monitoring field data sheets are presented in Appendix A. Cambria's well gauging data has been submitted to the GeoTracker database; see Appendix B for the GeoTracker electronic delivery confirmation.

#### Monitoring Results

*Groundwater Flow Direction:* Based on depth-to-water measurements collected on March 12, 2004, groundwater appears to be mounding in the vicinity of the former underground storage tanks (USTs). The groundwater flow has also mounded in this area for the last two quarters. Depth to water and groundwater elevation data are presented on Figure 1 and in Table 1.

*SPH Distribution:* During March 12, 2004 field activities, SPH was detected in all of the site monitoring wells (MW-1, MW-2, MW-3, TMW-4, TMW-5, and MW-6).

### **Corrective Action Activities**

**SPH Removal:** Monthly SPH removal by hand bailing was conducted, as verbally approved by Mr. Gholami on July 11, 2003. The schedule for SPH removal by hand bailing was proposed in Cambria's *Site Summary, Conduit Study and Monitoring Report* (Summary Report) dated April 30, 2003. On January 30, February 20, March 12, and March 30, 2004, Cambria conducted SPH removal events by hand bailing. During the first quarter field activities, Cambria removed approximately 5.85 gallons of SPH (Table 2). Approximately 33.76 gallons of SPH have been removed from the wells since SPH removal activities were initiated in 1992.



### **ANTICIPATED SECOND QUARTER 2004 ACTIVITIES**

#### **Monitoring Activities**

Cambria will gauge the site wells, inspect wells for SPH, and collect groundwater samples from all wells not containing SPH. Groundwater samples will be analyzed for total petroleum hydrocarbons as gasoline by modified EPA Method 8015C, and benzene, toluene, ethylbenzene, xylenes, and methyl tertiary butyl ether (MTBE) by EPA Method 8021B. Detected MTBE concentrations will be confirmed with an analysis by EPA Method 8260. Cambria will summarize groundwater monitoring activities and results in the *Groundwater Monitoring Report – Second Quarter 2004*.

#### **Corrective Action Activities**

Cambria will continue to perform SPH hand bailing during field events, as described in Cambria's Summary Report dated April 30, 2003. The frequency of SPH removal will continue to be evaluated and modified based on SPH recovery rates. The gauged SPH thickness and amount removed will be tabulated and incorporated into the quarterly groundwater monitoring reports.

Cambria received agency approval in a letter dated February 25, 2004 to prepare a *Site Assessment Work Plan* and install two SPH skimmers at the site. The site assessment activities will further define the extent of SPH and dissolved-phase hydrocarbon plumes. The *Site Assessment Work Plan* was submitted on April 13, 2004.

# C A M B R I A

## ATTACHMENTS

Figure 1 – Groundwater Elevation Contour and SPH Thickness Map

Table 1 – Groundwater Elevation and Analytical Data

Table 2 – Separate-Phase Hydrocarbon Removal

Appendix A – Groundwater Monitoring Field Data Sheets

Appendix B – GeoTracker Electronic Delivery Confirmation



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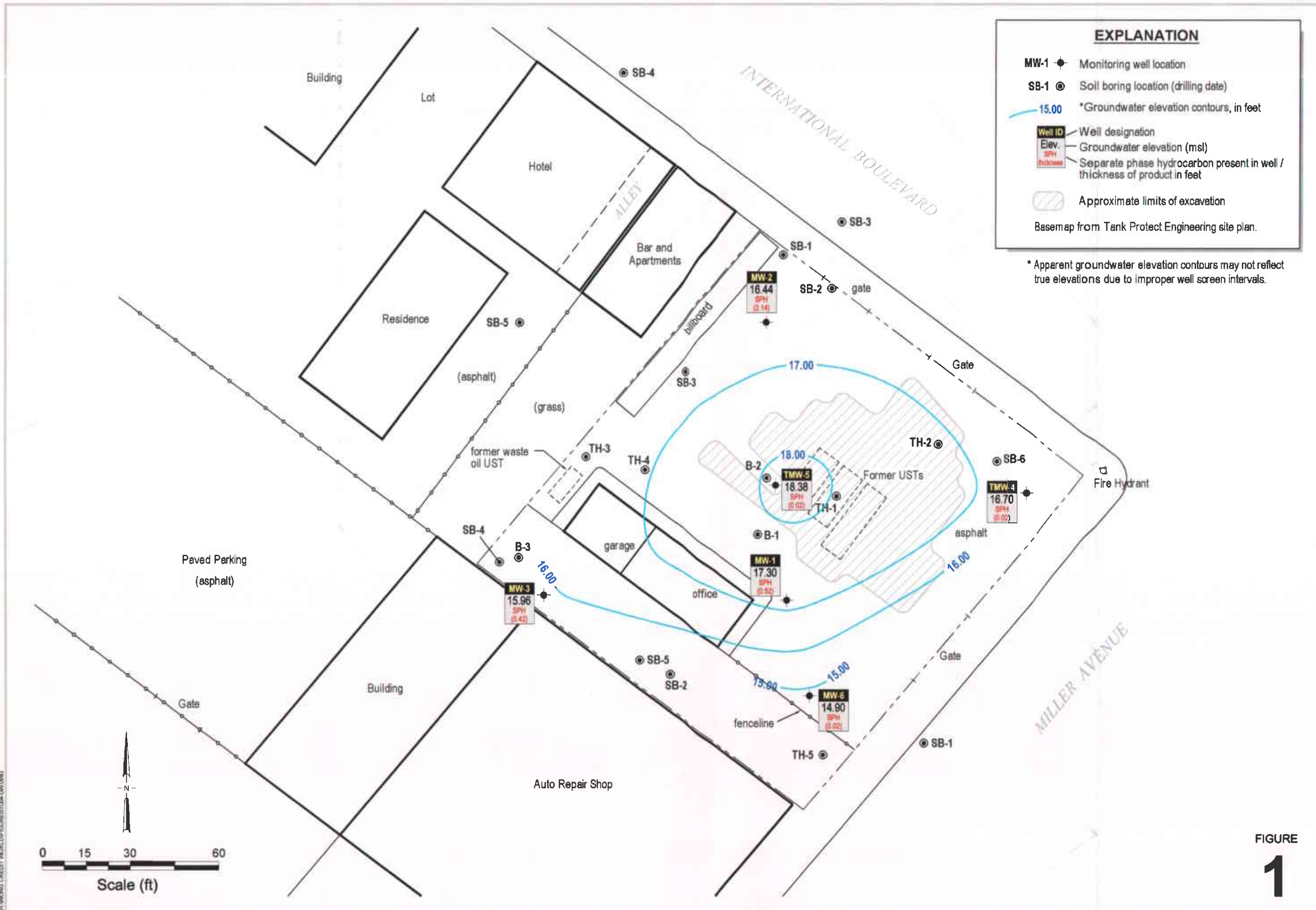


FIGURE  
**1**

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# CAMBRIA

**Table 1. Groundwater Elevation and Analytical Data - Credit World Auto Sales, 2345 International Boulevard, Oakland, California**

Well ID TOC	Date Sampled	Depth to GW (ft)	SPH Thickness (ft)	GW Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
<b>MW-1</b>	12/30/1997	10.96	0.17	16.51	61,000	4,300	1,800	1,600	6,900	1,400
100.000 <sup>d</sup>	3/24/1998	9.33	0.00	18.00	24,000	1,000	1,000	1,300	4,300	2,000
27.33 <sup>b</sup>	6/29/1998	12.20	0.00	15.13	130,000	3,800	370	1,200	4,200	3,300
	10/2/1998	13.46	0.00	13.87	22,000	66	21	26	140	<0.50
	12/10/1998	10.49	0.00	16.84	32,000	4,600	970	1,700	4,900	<250
	3/26/1999	9.44	0.00	17.89	230,000	370	290	280	720	<0.50
	6/11/1999	12.56	0.01	14.78	180,000	210	170	220	400	<0.50
	9/15/1999	14.85	1.00	13.28	21,000	3,800	280	590	2,200	<250
	12/28/1999	14.50	1.32	13.89	27,000	48	36	46	83	<0.5
	6/13/2001	15.83	4.36	12.03	--	--	--	--	--	--
	12/27/2002	8.31	0.16	16.19	--	--	--	--	--	--
	3/23/2003	10.65	0.05	16.72	--	--	--	--	--	--
	5/29/2003	12.11	0.28	15.44	--	--	--	--	--	--
	9/26/2003	12.84	0.29	14.72	--	--	--	--	--	--
	12/4/2003	12.50	0.10	14.91	--	--	--	--	--	--
	<b>3/12/2004</b>	<b>10.45</b>	<b>0.52</b>	<b>17.30</b>	--	--	--	--	--	--
<b>MW-2</b>	8/23/1991	13.77	0.00	84.82	10,000	<5	<5	<5	<5	--
98.585 <sup>d</sup>	4/16/1992	15.38	2.81	12.79	--	--	--	--	--	--
25.92 <sup>b</sup>	6/11/1993	13.19	0.00	12.74	--	--	--	--	--	--
	8/17/1993	14.04	0.01	11.89	49,000	94	240	250	980	--
	3/28/1994	13.61	0.54	12.74	14,000	4,200	<250	910	1,400	--
	6/27/1994	14.24	0.80	12.32	24,000	4,400	72	1,100	1,700	--
	9/16/1994	17.82	4.46	11.67	40,000	2,300	250	2,000	4,100	--
	3/31/1995	16.72	7.44	15.15	28,000	4,000	<120	1,100	1,400	--
	6/28/1995	13.50	0.73	13.00	40,000	2,700	130	1,700	2,900	--
	9/28/1995	14.63	0.54	11.72	7,500	420	14	250	190	<62
	12/26/1995	12.58	0.90	14.06	22,000	1,300	88	950	1,800	<250
	3/22/1996	11.46	0.15	14.58	9,800	2,200	<120	400	<380	<1,200

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MW-2	6/20/1996	13.08	0.37	13.14	35,000	770	<0.50	240	<0.50	550
(cont'd)	9/30/1996	16.67	3.75	12.25	58,000	1,600	230	2,200	4,000	<5.0
	12/27/1996	15.74	7.57	16.24	29,000	2,100	<0.50	1,200	1,800	<5.0
	3/7/1997	12.55	0.00	13.37	13,000	1,300	37	290	180	<5.0
	6/28/1997	11.98	0.04	13.97	12,000	840	<0.50	640	360	<5.0
	9/18/1997	13.44	0.00	12.48	12,000	680	<0.50	320	84	<5.0
	12/30/1997	11.31	0.00	14.61	13,000	1,100	40	350	220	<5.0
	3/25/1998	10.02	0.00	15.90	8,100	1,300	51	410	230	670
	6/29/1998	11.96	0.00	13.96	12,000	880	13	180	72	430
	10/2/1998	13.74	0.00	12.18	47,000	140	100	110	200	<0.50
	12/10/1998	12.91	2.10	14.69	26,000	1,000	210	1,500	1,900	<1,000
	3/26/1999	9.06	0.20	17.02	110,000	190	150	120	380	<0.50
	6/11/1999	12.18	0.00	13.74	190,000	310	250	320	540	<0.50
	9/15/1999	15.59	3.00	12.73	25,000	720	<100	1,300	1,600	<1,000
	12/28/1999	16.81	4.50	12.71	75,000	130	98	130	230	<0.50
	6/13/2001	14.84	3.15	10.84	--	--	--	--	--	--
	6/20/2002	14.80	0.70	8.92	53,000	2,200	140	3,300	3,000	<1,000
	10/21/2002	16.98	0.24	6.37	--	--	--	--	--	--
	12/27/2002	13.58	0.43	9.92	--	--	--	--	--	--
	3/23/2003	15.49	0.29	10.66	--	--	--	--	--	--
	5/29/2003	16.08	0.44	10.19	--	--	--	--	--	--
	9/26/2003	17.14	0.87	9.48	--	--	--	--	--	--
	12/4/2003	16.75	1.01	9.98	--	--	--	--	--	--
	<b>3/12/2004</b>	<b>11.19</b>	<b>2.14</b>	<b>16.44</b>	--	--	--	--	--	--



# CAMBRIA

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Well ID TOC	Date Sampled	Depth to GW (ft)	SPH Thickness (ft)	GW Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-3	8/23/1991	15.07	0.00	84.18	<5,000	<5	<5	<5	<5	--
99.25 <sup>a</sup>	4/16/1992	14.14	0.16	13.56	--	--	--	--	--	--
27.57 <sup>b</sup>	6/11/1993	14.28	0.00	13.30						--
	8/17/1993	15.77	0.00	11.80	9,600	4.1	17	28	54	--
	3/28/1994	14.35	0.00	13.22	8,400	2,400	56	67	200	--
	6/27/1994	14.77	0.00	12.80	9,900	3,300	<22	<25	73	--
	9/16/1994	15.42	0.05	12.19	16,000	2,300	80	620	240	--
	3/31/1995	12.98	0.46	14.96	16,000	2,800	70	<25	920	--
	6/28/1995	14.20	0.05	13.41	11,000	2,300	32	81	240	--
	9/28/1995	15.17	0.00	12.40	6,300	1,900	<42	200	<120	<420
	12/26/1995	13.33	0.06	14.29	25,000	3,800	97	94	1,600	<250
	3/22/1995	12.81	0.04	14.79	16,000	3,100	75	69	350	250
	6/20/1996	13.95	0.07	13.68	8,500	1,400	28	140	15	220
	9/24/1996	14.86	0.04	12.74	12,000	2,400	87	340	110	<5.0
	12/27/1996	11.04	0.06	16.58	5,800	1,700	28	<0.50	42	240
	3/10/1997	13.80	0.00	13.77	9,000	1,700	<0.50	110	<0.50	<5.0
	6/28/1997	13.72	0.06	13.90	15,000	2,200	<0.50	160	190	<5.0
	9/18/1997	14.76	0.00	12.81	28,000	3,800	<0.50	100	<0.50	<5.0
	12/30/1997	12.97	0.00	14.60	21,000	2,200	<0.50	31	<0.50	300
	3/24/1998	11.75	0.00	15.82	2,300	870	7.2	20	<0.50	85
	6/29/1998	13.38	0.00	14.19	6,500	1,300	12	62	14	140
	10/2/1998	14.42	0.00	13.15	11,000	31	27	35	69	<0.50
	12/10/1998	12.55	0.00	15.02	<2,500	2,800	68	42	55	<250
	3/26/1999	10.54	0.00	17.03	10,000	21	14	10	41	<0.50
	6/15/1999	13.91	0.00	13.66	87,000	90	71	92	180	<0.50
	9/15/1999	14.70	0.00	12.87	8,700	2,100	71	110	66	<100
	12/28/1999	15.16	0.25	12.61	4,300	7.7	5.2	7.2	13	<0.50
	6/13/2001	14.70	0.40	13.19	8,400	1,300	25	64	32	<20
	6/20/2002	14.68	0.02	12.91	7,800	1,100	23	66	15	<50
	12/27/2002	11.37	0.17	16.34	--	--	--	--	--	--

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MW-3	3/23/2003	--	--	--	--	--	--	--	--	--
(cont'd)	5/29/2003	13.99	0.08	13.64	--	--	--	--	--	--
	9/26/2003	14.51	0.05	13.10	--	--	--	--	--	--
	12/4/2003	14.28	0.10	13.37	--	--	--	--	--	--
	<b>3/12/2004</b>	<b>11.95</b>	<b>0.42</b>	<b>15.96</b>	--	--	--	--	--	--
<b>TMW-4</b>	8/17/1993	13.26	0.00	13.24	150	<0.50	0.8	1.4	3.7	--
26.50 <sup>b</sup>	3/28/1994	12.40	0.00	14.10	<50	<0.50	<0.50	<0.50	<1.5	--
	6/27/1994	12.84	0.00	13.66	<50	<0.50	<0.50	<0.50	<1.5	--
	9/16/1994	13.58	0.00	12.92	<50	<0.50	<0.50	<0.50	<1.5	--
	3/31/1995	10.23	0.00	16.27	<50	<0.50	<0.50	<0.50	<1.5	--
	6/28/1995	12.21	0.00	14.29	<50	<0.50	<0.50	<0.50	<1.5	--
	9/28/1995	13.38	0.00	13.12	<50	<0.50	<0.50	<0.50	<1.5	<5.0
	12/26/1995	11.32	0.00	15.18	<50	<0.50	<0.50	<0.50	<1.5	<5.0
	3/22/1996	10.54	0.00	15.96	<50	<0.50	<0.50	<0.50	<1.5	<5.0
	6/20/1996	12.14	0.00	14.36	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	9/24/1996	13.01	0.00	13.49	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/27/1996	9.51	0.00	16.99	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	3/10/1997	11.92	0.00	14.58	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	6/27/1997	10.70	0.00	15.80	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	9/18/1997	12.94	0.00	13.56	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/30/1997	10.92	0.00	15.58	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	3/25/1998	9.60	0.00	16.90	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	6/29/1998	11.32	0.00	15.18	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	10/2/1998	12.56	0.00	13.94	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	12/10/1998	10.44	0.00	16.06	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	3/26/1999	9.38	0.00	17.12	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	6/15/1999	11.58	0.00	14.92	<50	<0.50	<0.50	<0.50	<0.50	<0.50
	9/15/1999	12.89	0.00	13.61	<50	<0.50	<0.50	<0.50	<0.50	<5.0
	12/28/1999	12.92	0.00	13.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50

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TMW-4 <i>(cont'd)</i>	10/21/2002	12.70	0.00	13.80	--	--	--	--	--	--
	12/27/2002	9.07	0.12	17.53	--	--	--	--	--	--
	3/23/2003	10.73	0.03	15.79	--	--	--	--	--	--
	5/29/2003	12.50	0.02	14.02	--	--	--	--	--	--
	9/26/2003	13.27	0.06	13.28	--	--	--	--	--	--
	12/4/2003	13.07	0.10	13.51	--	--	--	--	--	--
	<b>3/12/2004</b>	<b>9.82</b>	<b>0.02</b>	<b>16.70</b>	--	--	--	--	--	--
TMW-5 26.51 <sup>b</sup>	8/17/1993	12.98	0.03	13.55	120,000	640	730	790	3,600	--
	3/28/1994	11.39	0.00	15.12	70,000	23,000	1,500	4,100	15,000	--
	6/28/1994	12.24	0.00	14.27	56,000	26,000	940	5,500	26,000	--
	9/16/1994	13.02	0.05	13.53	96,000	17,000	720	3,500	12,000	--
	3/31/1995	7.38	0.00	19.13	64,000	13,000	470	3,500	6,100	--
	6/28/1995	11.31	0.06	15.25	65,000	9,000	240	2,600	5,300	--
	9/28/1995	14.42	0.00	12.09	79,000	17,000	1,800	2,700	7,000	<1,200
	12/26/1995	10.16	0.05	16.39	110,000	11,000	800	2,300	4,500	<1,200
	3/22/1996	7.59	0.05	18.96	--	--	--	--	--	--
	6/26/1996 <sup>d</sup>	7.12	0.00	--	30,000	4,000	180	1,500	2,500	830
	9/30/1996	7.42	0.00	--	6,900	1,600	79	130	370	<5.0
	12/27/1996	6.38	0.00	--	78,000	12,000	1,900	2,900	9,700	<5.0
	3/10/1997	11.12	0.00	--	84,000	9,900	1,100	2,600	8,800	<5.0
	8/17/1997	12.98	0.03	--	--	--	--	--	--	--
	9/18/1997	12.00	0.00	--	65,000	8,000	<0.5	2,000	4,700	<5.0
	12/30/1997	8.97	0.00	--	79,000	6,400	340	2,300	5,500	<5.0
3/25/1998	7.32	0.00	--	20,000	6,000	260	2,700	5,800	2,400	
6/29/1998	11.50	0.00	--	--	--	--	--	--	--	
10/8/1998	12.56	0.00	--	46,000	120	98	120	240	<0.50	
12/8/1998	10.14	0.00	--	46,000	5,900	320	2,200	5,400	<1,200	
3/26/1999	7.08	0.00	--	35,000	69	61	37	120	<0.50	
6/11/1999	11.40	0.00	--	26,000	29	32	43	72	<0.50	

# CAMBRIA

**Table 1. Groundwater Elevation and Analytical Data - Credit World Auto Sales, 2345 International Boulevard, Oakland, California**

Well ID TOC	Date Sampled	Depth to GW (ft)	SPH Thickness (ft)	GW Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
TMW-5	9/15/1999	12.52	0.00	--	37,000	7,300	400	2,400	6,000	<1,000
<i>(cont'd)</i>	12/28/1999	12.44	0.00	--	25,000	44	32	41	75	<0.50
	5/23/2001	11.31	0.00	12.54	--	--	--	--	--	--
	6/20/2002	11.29	0.05	12.60	51,000	5,100	290	2,300	5,800	<250
	10/21/2002	13.60	0.10	10.33	--	--	--	--	--	--
	12/27/2002	6.60	0.07	17.31	--	--	--	--	--	--
	3/23/2003	9.79	0.04	16.75	--	--	--	--	--	--
	5/29/2003	11.29	0.04	15.25	--	--	--	--	--	--
	9/26/2003	12.47	0.07	14.10	--	--	--	--	--	--
	12/4/2003	12.35	0.10	14.24	--	--	--	--	--	--
	<b>3/12/2004</b>	<b>8.15</b>	<b>0.02</b>	<b>18.38</b>	--	--	--	--	--	--
<b>MW-6</b>	5/23/2001	12.47	0.00	11.34	--	--	--	--	--	--
<i>23.81'</i>	6/13/2001	12.47	0.00	11.34	7,600	1,400	42	19	14	<10
	6/20/2002	12.45	0.00	11.36	79	5.7	<0.5	<0.5	<0.5	<5.0
	12/27/2002	7.24	0.04	16.60	--	--	--	--	--	--
	3/23/2003	--	--	--	--	--	--	--	--	--
	5/29/2003	11.95	0.02	11.88	--	--	--	--	--	--
	9/26/2003	13.11	0.03	10.72	--	--	--	--	--	--
	12/4/2003	13.14	0.10	10.75	--	--	--	--	--	--
	<b>3/12/2004</b>	<b>8.93</b>	<b>0.02</b>	<b>14.90</b>	--	--	--	--	--	--

# CAMBRIA

**Table 1. Groundwater Elevation and Analytical Data - Credit World Auto Sales, 2345 International Boulevard, Oakland, California**

Well ID	Date	Depth to	SPH	GW						
TOC	Sampled	GW	Thickness	Elevation	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
		(ft)	(ft)	(ft)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)

**Abbreviations and Methods:**

TOC = Top of well casing elevation measured in feet below top of casing

Depth to GW = Depth to groundwater relative to top of casing

(ft) = measured in feet

SPH = Separate phase hydrocarbons

GW Elevation = Groundwater elevation in relation to mean sea level; calculated according to the relationship  $GW\ elevation = TOC - DTW + (0.8)(SPH\ thickness)$

(ug/L) = micrograms per liter

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

Benzene, Toluene, Ethylbenzene, Xylenes by EPA Method 8020, and by 8260 if in parenthesis

MTBE = methyl tertiary butyl ether by EPA Method 8020

-- = Not available, not analyzed, or does not apply.

a = Relative to site datum established by Earth Systems Engineering surveyed August 1981

b = Top of casing elevation surveyed 8/10/93 by professional engineer (unknown datum)

c = Top of casing elevation surveyed 6/13/01 to City of Oakland datum by Renner Survey Company of Burlingame, CA. for Sequoia Environmental.

# CAMBRIA

**Table 2. Separate Phase Hydrocarbon Removal - Credit World Auto Sales, 2345 International Blvd, Oakland, California**

Well ID	Date Sampled	Depth to SPH (feet bgs)	Depth to GW (feet bgs)	SPH Thickness (feet)	Hydrocarbons Removed (liters)	Hydrocarbons Removed (gallons)	Cumulative Hydrocarbons Removed (gallons)
MW-1	12/30/1997	10.79	10.96	0.17	0.10	0.03	0.03
	6/11/1999	12.55	12.56	0.01	0.01	0.00	0.03
	9/15/1999	13.85	14.85	1.00	0.60	0.16	0.19
	12/28/1999	8.15	8.31	0.16	0.10	0.03	0.21
	6/13/2001	8.15	8.31	0.16	0.10	0.03	0.24
	12/27/2003	8.15	8.31	0.16	3.00	0.79	1.03
	3/23/2003	10.60	10.65	0.05	1.26	0.33	1.36
	4/4/2003	10.19	10.23	0.04	0.94	0.25	1.61
	5/1/2003	9.80	9.85	0.05	0.49	0.13	1.74
	5/29/2003	11.83	12.11	0.28	1.00	0.26	2.00
	7/25/2003	11.99	12.24	0.25	0.50	0.13	2.13
	8/11/2003	12.07	12.37	0.30	0.50	0.13	2.27
	8/29/2003	12.07	12.40	0.33	0.50	0.13	2.40
	9/12/2003	12.59	12.90	0.31	0.48	0.13	2.53
	9/26/2003	12.55	12.84	0.29	0.50	0.13	2.66
	10/10/2003	12.61	12.72	0.11	0.11	0.03	2.69
	10/30/2003	12.68	12.75	0.07	0.08	0.02	2.71
	11/25/2003	12.59	12.69	0.10	0.10	0.03	2.73
	12/4/2003	12.40	12.50	0.10	0.10	0.03	2.76
	12/23/2003	11.97	12.08	0.11	0.10	0.03	2.79
1/30/2004	<b>9.64</b>	<b>10.05</b>	<b>0.41</b>	<b>0.75</b>	<b>0.20</b>	<b>2.99</b>	
2/20/2004	<b>9.50</b>	<b>9.97</b>	<b>0.47</b>	<b>0.50</b>	<b>0.13</b>	<b>3.12</b>	
3/12/2004	<b>9.93</b>	<b>10.45</b>	<b>0.52</b>	<b>1.00</b>	<b>0.26</b>	<b>3.38</b>	
3/30/2004	<b>10.35</b>	<b>11.21</b>	<b>0.86</b>	<b>1.11</b>	<b>0.29</b>	<b>3.67</b>	
MW-2	6/28/1995	12.77	13.50	0.73	0.44	0.12	2.12
	9/28/1995	14.09	14.63	0.54	0.32	0.09	2.20
	12/26/1995	11.68	12.58	0.90	0.54	0.14	2.35
	3/22/1996	11.31	11.46	0.15	0.09	0.02	2.37
	6/20/1996	12.71	13.08	0.37	0.22	0.06	2.43
	9/30/1996	12.92	16.67	3.75	2.25	0.59	3.02
	12/27/1996	8.17	15.74	7.57	4.54	1.20	4.22
	6/28/1997	11.94	11.98	0.04	0.02	0.01	4.23
	9/18/1997	13.44	13.44	0.00	0.00	0.00	4.23
	12/10/1998	10.81	12.91	2.10	1.26	0.33	4.56
	3/26/1999	8.86	9.06	0.20	0.12	0.03	4.59
	9/15/1999	12.59	15.59	3.00	1.80	0.48	5.07
	12/28/1999	12.31	16.81	4.50	2.70	0.71	5.78
	6/13/2001	11.69	14.84	3.15	1.89	0.50	6.28
	6/20/2002	14.10	14.80	0.70	0.42	0.11	6.39
	10/21/2002	16.74	16.98	0.24	0.14	0.04	6.43
	12/27/2002	13.15	13.58	0.43	3.00	0.79	7.22
	3/23/2003	15.20	15.49	0.29	5.68	1.50	8.72
	4/4/2003	14.72	14.80	0.08	3.78	1.00	9.72
	5/1/2003	13.59	13.63	0.04	0.49	0.13	9.85
	5/29/2003	15.64	16.08	0.44	1.00	0.26	10.11
	7/25/2003	15.81	16.31	0.50	0.50	0.13	10.24
	8/11/2003	15.99	16.44	0.45	0.50	0.13	10.38
	8/29/2003	15.92	16.75	0.83	0.50	0.13	10.51
	9/12/2003	16.29	17.10	0.81	0.95	0.25	10.76
	9/26/2003	16.27	17.14	0.87	1.90	0.50	11.26
	10/10/2003	16.35	17.10	0.75	1.89	0.50	11.76
10/30/2003	16.41	17.03	0.62	0.95	0.25	12.01	

# CAMBRIA

**Table 2. Separate Phase Hydrocarbon Removal - Credit World Auto Sales, 2345 International Blvd, Oakland, California**

Well ID	Date Sampled	Depth to SPH (feet bgs)	Depth to GW (feet bgs)	SPH Thickness (feet)	Hydrocarbons Removed (liters)	Hydrocarbons Removed (gallons)	Cumulative Hydrocarbons Removed (gallons)
	11/25/2003	16.08	16.98	0.90	3.79	1.00	13.01
	12/4/2003	15.74	16.75	1.01	3.79	1.00	14.01
	12/11/2003	15.81	16.90	1.09	3.79	1.00	15.01
	12/23/2003	15.60	16.55	0.95	3.79	1.00	16.01
	<b>1/30/2004</b>	<b>8.91</b>	<b>10.69</b>	<b>1.78</b>	<b>3.00</b>	<b>0.79</b>	<b>16.80</b>
	<b>2/20/2004</b>	<b>8.74</b>	<b>10.72</b>	<b>1.98</b>	<b>4.00</b>	<b>1.06</b>	<b>17.86</b>
	<b>3/12/2004</b>	<b>9.05</b>	<b>11.19</b>	<b>2.14</b>	<b>6.41</b>	<b>1.69</b>	<b>19.55</b>
	<b>3/30/2004</b>	<b>10.16</b>	<b>10.67</b>	<b>0.51</b>	<b>0.51</b>	<b>0.13</b>	<b>19.69</b>
MW-3	4/16/1992	13.98	14.14	0.16	0.10	0.03	0.03
	9/16/1994	15.37	15.42	0.05	0.03	0.01	0.04
	3/31/1995	12.52	12.98	0.46	0.28	0.07	0.11
	6/28/1995	14.15	14.20	0.05	0.03	0.01	0.12
	12/26/1995	13.27	13.33	0.06	0.04	0.01	0.13
	3/22/1995	12.77	12.81	0.04	0.02	0.01	0.13
	6/20/1996	13.88	13.95	0.07	0.04	0.01	0.15
	9/24/1996	14.82	14.86	0.04	0.02	0.01	0.15
	12/27/1996	10.98	11.04	0.06	0.04	0.01	0.16
	6/28/1997	13.66	13.72	0.06	0.04	0.01	0.17
	12/28/1999	14.91	15.16	0.25	0.15	0.04	0.21
	6/13/2001	14.30	14.70	0.40	0.24	0.06	0.27
	6/20/2002	14.66	14.68	0.02	0.01	0.00	0.28
	12/27/2002	11.20	11.37	0.17	3.00	0.79	1.07
	5/29/2003	13.91	13.99	0.08	0.01	0.03	1.10
	7/25/2003	14.02	14.12	0.10	0.20	0.05	1.15
	8/11/2003	14.25	14.35	0.10	0.15	0.04	1.19
	8/29/2003	14.18	14.33	0.15	0.15	0.04	1.23
	9/12/2003	14.41	14.55	0.14	0.10	0.03	1.25
	9/26/2003	14.46	14.51	0.05	0.15	0.04	1.29
	10/10/2003	14.50	14.58	0.08	0.20	0.05	1.35
	10/30/2003	14.59	14.63	0.04	0.12	0.03	1.38
	11/25/2003	14.30	14.40	0.10	0.11	0.03	1.41
	12/4/2003	14.18	14.28	0.10	0.10	0.03	1.43
	12/23/2003	13.81	13.91	0.10	0.05	0.01	1.45
	<b>1/30/2004</b>	<b>10.16</b>	<b>10.53</b>	<b>0.37</b>	<b>1.00</b>	<b>0.26</b>	<b>1.71</b>
	<b>2/20/2004</b>	<b>10.08</b>	<b>10.48</b>	<b>0.40</b>	<b>1.00</b>	<b>0.26</b>	<b>1.98</b>
	<b>3/12/2004</b>	<b>11.53</b>	<b>11.95</b>	<b>0.42</b>	<b>2.25</b>	<b>0.59</b>	<b>2.57</b>
	<b>3/30/2004</b>	<b>12.14</b>	<b>12.18</b>	<b>0.04</b>	<b>0.60</b>	<b>0.16</b>	<b>2.73</b>
TMW-4	12/27/2002	8.95	9.07	0.12	1.50	0.40	0.40
	3/23/2003	10.70	10.73	0.03	0.95	0.25	0.65
	4/4/2003	10.35	10.40	0.05	0.95	0.25	0.90
	5/1/2003	10.07	10.09	0.02	0.49	0.13	1.02
	5/29/2003	12.48	12.50	0.02	0.00	0.00	1.02
	7/25/2003	12.61	12.67	0.06	0.05	0.01	1.03
	8/11/2003	14.49	14.59	0.10	0.10	0.03	1.06
	8/29/2003	12.93	12.95	0.02	0.05	0.01	1.07
	9/12/2003	13.24	13.29	0.05	0.03	0.01	1.08
	9/26/2003	13.21	13.27	0.06	0.04	0.01	1.09
	10/10/2003	13.31	13.40	0.09	0.05	0.01	1.11
	10/30/2003	13.30	13.38	0.08	0.04	0.01	1.12
	11/25/2003	13.09	13.19	0.10	0.02	0.01	1.12
	12/4/2003	12.97	13.07	0.10	0.05	0.01	1.14
	12/23/2003	13.59	13.69	0.10	0.05	0.01	1.15

# CAMBRIA

**Table 2. Separate Phase Hydrocarbon Removal - Credit World Auto Sales, 2345 International Blvd, Oakland, California**

Well ID	Date Sampled	Depth to SPH (feet bgs)	Depth to GW (feet bgs)	SPH Thickness (feet)	Hydrocarbons Removed (liters)	Hydrocarbons Removed (gallons)	Cumulative Hydrocarbons Removed (gallons)
	<b>1/30/2004</b>	<b>9.45</b>	<b>9.47</b>	<b>0.02</b>	<b>0.01</b>	<b>0.00</b>	<b>1.15</b>
	<b>2/20/2004</b>	<b>9.37</b>	<b>9.39</b>	<b>0.02</b>	<b>0.01</b>	<b>0.00</b>	<b>1.15</b>
	<b>3/12/2004</b>	<b>9.80</b>	<b>9.82</b>	<b>0.02</b>	<b>0.01</b>	<b>0.00</b>	<b>1.16</b>
	<b>3/30/2004</b>	<b>10.11</b>	<b>10.12</b>	<b>0.01</b>	<b>0.00</b>	<b>0.00</b>	<b>1.16</b>
TMW-5	8/17/1993	12.95	12.98	0.03	0.02	0.00	0.00
	9/16/1994	12.97	13.02	0.05	0.03	0.01	0.01
	6/28/1995	11.25	11.31	0.06	0.04	0.01	0.02
	12/26/1995	10.11	10.16	0.05	0.03	0.01	0.03
	3/22/1996	7.54	7.59	0.05	0.03	0.01	0.03
	8/17/1997	12.95	12.98	0.03	0.02	0.00	0.04
	5/23/2001	--	11.31	0.00	0.00	0.00	0.04
	6/20/2002	11.24	11.29	0.05	0.03	0.01	0.05
	10/21/2002	13.50	13.60	0.10	0.06	0.02	0.06
	12/27/2002	13.50	13.60	0.10	1.50	0.40	0.46
	3/23/2003	9.75	9.79	0.04	0.95	0.25	0.71
	4/4/2003	9.40	9.45	0.05	0.49	0.13	0.83
	5/1/2003	8.93	8.95	0.02	0.38	0.10	0.93
	5/29/2003	11.25	11.29	0.04	0.01	0.01	0.95
	7/25/2003	11.33	11.37	0.04	0.02	0.01	0.95
	8/11/2003	11.47	11.49	0.02	0.01	0.003	0.95
	8/29/2003	12.10	12.17	0.07	0.02	0.01	0.96
	9/12/2003	12.45	12.50	0.05	0.03	0.01	0.97
	9/26/2003	12.40	12.47	0.07	0.02	0.01	0.97
	10/10/2003	12.51	12.61	0.10	0.02	0.01	0.98
	10/30/2003	12.65	12.70	0.05	0.01	0.003	0.98
	11/25/2003	12.39	12.49	0.10	0.01	0.003	0.98
	12/4/2003	12.25	12.35	0.10	0.01	0.001	0.98
	12/23/2003	13.78	13.88	0.10	0.01	0.003	0.99
	<b>1/30/2004</b>	<b>7.63</b>	<b>7.65</b>	<b>0.02</b>	<b>0.01</b>	<b>0.003</b>	<b>0.99</b>
	<b>2/20/2004</b>	<b>7.65</b>	<b>7.67</b>	<b>0.02</b>	<b>0.01</b>	<b>0.003</b>	<b>0.99</b>
	<b>3/12/2004</b>	<b>8.13</b>	<b>8.15</b>	<b>0.02</b>	<b>0.01</b>	<b>0.003</b>	<b>1.00</b>
	<b>3/30/2004</b>	<b>9.09</b>	<b>9.09</b>	<b>0.00</b>	<b>0.00</b>	<b>0.000</b>	<b>1.00</b>
MW-6	12/27/2002	7.20	7.24	0.04	1.50	0.39	0.39
	5/29/2003	11.93	11.95	0.02	0.01	0.01	0.40
	7/25/2003	12.05	12.07	0.02	0.02	0.01	0.41
	8/11/2003	12.18	12.20	0.02	0.01	0.003	0.41
	8/29/2003	12.74	12.77	0.03	0.05	0.01	0.42
	9/12/2003	13.09	13.15	0.06	0.05	0.01	0.44
	9/26/2003	13.08	13.11	0.03	0.05	0.01	0.45
	10/10/2003	13.27	13.43	0.16	0.08	0.02	0.47
	10/30/2003	13.32	13.40	0.08	0.05	0.01	0.49
	11/25/2003	13.09	13.24	0.15	0.04	0.01	0.50
	12/4/2003	13.04	13.14	0.10	0.02	0.01	0.50
	12/23/2003	13.50	13.60	0.10	0.01	0.003	0.50
	<b>1/30/2004</b>	<b>8.42</b>	<b>8.44</b>	<b>0.02</b>	<b>0.01</b>	<b>0.003</b>	<b>0.51</b>
	<b>2/20/2004</b>	<b>8.38</b>	<b>8.40</b>	<b>0.02</b>	<b>0.01</b>	<b>0.003</b>	<b>0.51</b>
	<b>3/12/2004</b>	<b>8.91</b>	<b>8.93</b>	<b>0.02</b>	<b>0.01</b>	<b>0.003</b>	<b>0.51</b>
	<b>3/30/2004</b>	<b>9.68</b>	<b>9.69</b>	<b>0.01</b>	<b>0.00</b>	<b>0.000</b>	<b>0.51</b>



# CAMBRIA

**Table 2. Separate Phase Hydrocarbon Removal - Credit World Auto Sales, 2345 International Blvd, Oakland, California**

Well ID	Date Sampled	Depth to SPH (feet bgs)	Depth to GW (feet bgs)	SPH Thickness (feet)	Hydrocarbons Removed (liters)	Hydrocarbons Removed (gallons)	Cumulative Hydrocarbons Removed (gallons)
<i>Hydrocarbons removed by bailing or purging (gallons) =</i>							<i>28.76</i>
<i>Hydrocarbons removed by Tank Protect (see below) (gallons) =</i>							<i>5.0</i>
<i>Total estimated hydrocarbons removed (gallons) =</i>							<i>33.76</i>

Note = approximately 3 to 5 gallons reported removed by Tank Protect between 8/20/97 and 1/14/98 with continuous free product removal system.

GW = Groundwater

bgs = below ground surface

SPH = Separate phase hydrocarbons

SPH removal volumes were provided for 5/23/01, 6/13/01, and 12/27/02 data.

The volume of hydrocarbons removed prior to 12/27/2002 were estimated by multiplying the well casing volume (2" diameter casing = 0.60L/ft) by the SPH thickness (feet)

C A M B R I A



**APPENDIX A**

Groundwater Monitoring Field Data Sheets

**SPH REMOVAL FIELD SHEET**

Well ID	Time	DTP	DTW	Thickness	Volume Removed	Casing Diam.	Comments
MW-1		9.64	10.05	0.41	.75L		
MW-2		8.91	10.69	1.78	3L		
MW-3		10.16	10.53	0.37	1L		
TMW-4		9.45	9.47	0.02	10ml		
TMW-5		7.63	7.65	0.02	10ml		
MW-6		8.42	8.44	0.02	10ml		

Project Name: Wong

Project Number: 513-1000

Technician: J. [Signature]

Date: 1-30-04

Product Bailing Sheet

Well ID	Order	DTP	DTW	<del>DOP</del> thickness	Amount of Product Removed	Casing Dia	Comment
MW-1		9.50	9.97	0.47	1/2 L		
MW-2		8.74	10.72	1.98	4L		
MW-3		10.08	10.48	0.40	1L		
TMW-4		9.37	9.39	0.02	10ml		
TMW-5		7.65	7.67	0.02	10ml		
MW-6		8.38	8.40	0.02	10ml		

Project Name: Wong

Project Number: 513-1000

Technician: S. Bell

Date: 2-20-04

SPH REMOVAL FIELD SHEET

Well ID	Time	DTP	DTW	Thickness	Volume Removed	Casing Diam.	Comments
MW-1	12:45	9.93	10.45	0.52	1 Liter	2"	
MW-2	12:50	9.05	11.19	2.14	6.41 l	2"	
MW-3	12:55	11.53	11.95	0.42	2.25 l	2"	
TMW-4	12:30	9.80	9.82	0.02	less than 10ml	2"	
TMW-5	12:35	8.13	8.15	0.02	less than 10ml	2"	
MW-6	12:40	8.91	8.93	0.02	less than 10ml	4"	

Project Name: Wong Credit World

Project Number: 513-1000

Technician: Tyson Fulmer

Date: 3-12-04

### SPH REMOVAL FIELD SHEET

Well ID	Time	DTP	DTW	Thickness	Volume Removed	Casing Diam.	Comments
MW-1	10:45	10.35	11.21	0.86	1.11l		
MW-2	11:00	10.16	10.67	0.51	0.51l		
MW-3	10:50	12.14	12.18	0.04	60ml		
TMW-4	10:20	10.11	10.12	0.01	-		No Visible Product
TMW-5	10:35	-	9.09	-	-		No Visible Product
MW-6	10:30	9.68	9.69	0.01	-		Removed Heavy Sheen

Project Name: Wang Credit World

Project Number: 513-1000(021)

Technician: Tyson Fulmer

Date: 3/30/04

C A M B R I A



**APPENDIX B**

GeoTracker Electronic Delivery Confirmation

## AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

### UPLOADING A GEO\_WELL FILE

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

**Submittal Title:** 1st Qtr 2004, Groundwater Depth Data for 2345 International Blvd,  
Oakland

**Submittal Date/Time:** 4/12/2004 6:48:01 PM

**Confirmation  
Number:** 2579487442

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