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November 7, 2004

Mr. Don Hwang
Hazardous Materials Specialist
ACHCSA
1131 Harbor Bay Parkway
Alameda, CA 94501
(510) 567-6700 / FAX 337-9335

SUBJECT: IIIQ04 Monitoring/SVE System Progress Report
1432 Harrison Street, Oakland, CA 94612
SITE ID 498

Dear Mr. Hwang:

Attached is the IIIQ04 Groundwater Monitoring/SVE Systems Progress Report for the above site. If you have a question, please contact me.

Sincerely yours,

Mark Borsuk

CAMBRIA

October 29, 2004

Mr. Mark Borsuk
1626 Vallejo St.
San Francisco, CA 94123-5116

Re: **Groundwater Monitoring and System Progress Report**
Third Quarter 2004
Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

Dear Mr. Borsuk:

As requested, Cambria Environmental Technology, Inc. (Cambria) has prepared this *Groundwater Monitoring and System Progress Report – Third Quarter 2004*. Presented in the report are the third quarter 2004 activities and results, and the anticipated fourth quarter 2004 activities. Attached are two additional copies for submittal to Mr. Don Hwang with the Alameda County Health Care Service Agency (ACHCSA) and for your file.

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

Sincerely,
Cambria Environmental Technology, Inc.

Subbarao Nagulapaty
Project Engineer

Attachments: Groundwater Monitoring and System Progress Report - Third Quarter 2004
(2 copies)

Cambria Environmental Technology, Inc.

5900 Hollis Street
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GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

THIRD QUARTER 2004

Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

October 29, 2004

Prepared for:

Mr. Mark Borsuk
1626 Vallejo Street
San Francisco, California 94123-5116

Prepared by:

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

Written by:

for

Rowan Fennell
Staff Scientist

REGISTERED GEOLOGIST
RONALD A. SCHEELE
No. 6842
STATE OF CALIFORNIA

Ron Scheele, R.G.
Senior Geologist

CAMBRIA

GROUNDWATER MONITORING AND SYSTEM PROGRESS REPORT

THIRD QUARTER 2004

Allright Parking
1432 Harrison Street
Oakland, California
Cambria Project #540-0188

October 29, 2004

INTRODUCTION

On behalf of Mr. Mark Borsuk, Cambria Environmental Technology, Inc. (Cambria) has prepared this Groundwater Monitoring and System Progress Report – Third Quarter 2004 for the above-referenced site (see Figure 1). Presented in this report are the third quarter 2004 groundwater monitoring and remediation activities, and the anticipated fourth quarter 2004 activities.

THIRD QUARTER 2004 ACTIVITIES AND RESULTS

Monitoring Activities

Field Activities: On September 27, 2004, Cambria conducted quarterly monitoring activities. Cambria gauged and inspected for separate-phase hydrocarbons (SPH) in all monitoring wells. SPH was not detected in any of the wells and groundwater samples were collected from wells MW-1, MW-2, MW-4, and MW-5. Groundwater monitoring field data sheets are presented as Appendix B. The groundwater monitoring data has been submitted to the GeoTracker database. See Appendix E for the GeoTracker electronic delivery confirmation.

Sample Analyses: Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified EPA Method 8015, and benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8021B by McCampbell Analytical, Inc. of Pacheco, California. The laboratory analytical report is included as Appendix C. Hydrocarbon concentrations are shown on Figure 1 and Table 1. The analytical data was submitted to the GeoTracker database. See Appendix E for the GeoTracker electronic delivery confirmation.

Monitoring Results

Groundwater Flow Direction: Based on depth-to-water measurements collected during Cambria's September 27, 2004 site visit, groundwater beneath the site generally flows toward the north-northeast at a gradient of 0.004 feet/foot. The overall gradient is consistent with previous quarters, including the

groundwater mounding around well MW-1, which is induced by soil vapor extraction (SVE) operations. Depth to water and groundwater elevation data is presented in Figure 1 and Table 1.

Hydrocarbon Distribution in Groundwater: Hydrocarbon concentrations were detected in all four sampled wells this quarter. TPHg concentrations ranged from 1,600 micrograms per liter (µg/L) to 45,000 µg/L with the highest concentration detected in well MW-4. Benzene concentrations ranged from 140 µg/L to 16,000 µg/L, with the highest concentration detected in well MW-4. MTBE was not detected above laboratory detection limits in any of the wells. Concentrations continue to exhibit a stable or decreasing trend, except for well MW-5, which has seen a small spike in TPHg and BTEX concentrations over the past three quarters. Please refer to Figure 1 and Table 1 for dissolved hydrocarbon concentrations, and Appendix A for Benzene concentration and depth to water versus time trend graphs for wells MW-1 through MW-6. Please note that the unshaded symbols on the graphs represent results below laboratory detection limits.

Corrective Action Activities

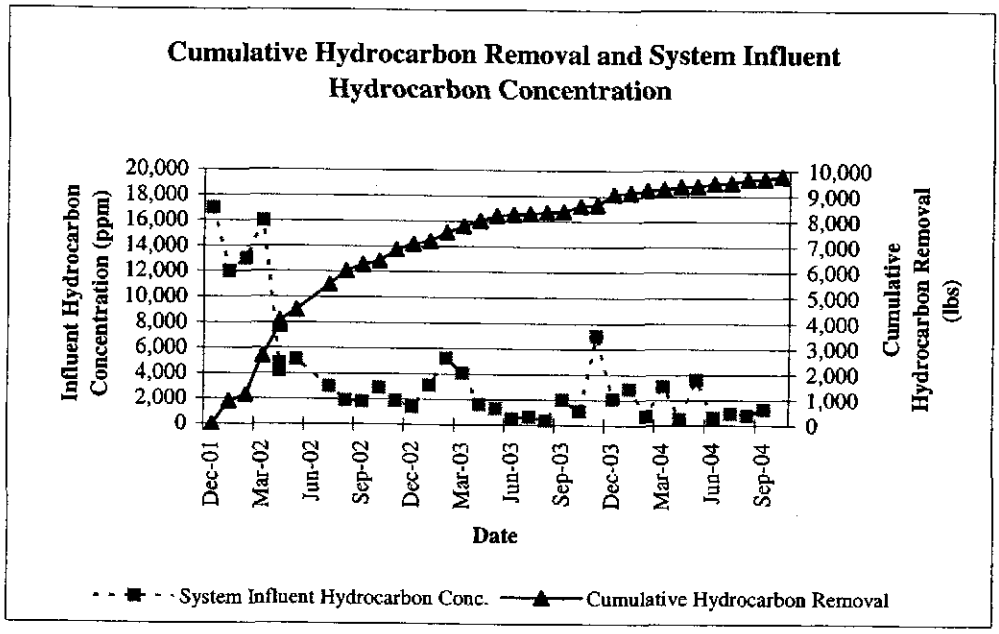
System Design: The soil vapor extraction/air sparge (SVE/AS) remediation system consists of a positive-displacement blower belt-driven by a 10-horsepower electric motor, an oil-less AS blower directly driven by a 5-horsepower electric motor, control panel, and an auto dialer connected to a phone line to provide remote notification of system status. Four coaxial remediation wells (VES-1/AS-1, VES-2/AS-2, VES-3/AS-3, VES-4/AS-4) and one former monitoring well (MW-1) are individually connected to a central manifold in the remediation system enclosure. In June 2004 the remediation system was modified and the catalytic oxidizer treatment system was replaced with two 2,000-thousand pound vapor-phase carbon vessels arranged in series. See Figure 2 for the location of remediation enclosure and wells.

SVE/AS System Operation and Maintenance Activities: In order to satisfy Bay Area Air Quality Management District (BAAQMD) requirements for the startup of the modified system, Cambria performed daily monitoring events on July 6-8, 2004. Based on the collected field data, Cambria proposed a monthly monitoring schedule and on July 9, 2004, the BAAQMD approved Cambria's proposal. During the third quarter, Cambria performed system operation and maintenance (O&M) on the SVE/AS system approximately three times per month. Individual well flow, vacuum, and hydrocarbon concentration measurements were collected from all SVE wells and from the system influent sample location (see Tables 2 and 3). During site visits, system operation parameters were recorded in specialized field forms for future system optimization and agency inspection.

System influent vapor samples were collected and submitted for laboratory analysis on July 6, August 12, and September 16, 2004. Table 2 summarizes SVE system operations and analytical results. The analytical laboratory reports from system vapor sampling are included as Appendix D.

SVE System Performance: The SVE system was operated throughout the third quarter. The system shutdown automatically on August 15, 2004 due to a malfunctioning air pressure switch and was shutdown manually on August 27, 2004 due to excessive noise. To maximize extraction flowrates, all extraction wells remained open for the duration of the quarter. System monitoring events were performed throughout the quarter to record hydrocarbon concentrations in individual wells for system optimization.

From July 6 to October 11, 2004, the SVE system operated for a total of 1,800 hours, a run-time of approximately 77 percent. Influent vapor concentrations ranged from 780 to 1,300 parts per million by volume (ppmv) and vapor flow rates ranged from 7.2 to 12.3 standard cubic feet per minute (see Table 2). Hydrocarbon removal rates ranged from approximately 1.8 to 3.9 pounds per day. The fluctuation in hydrocarbon removal rates is primarily due to continued performance optimization activities. As of October 11, 2004, approximately 9,785 pounds of hydrocarbons have been extracted and destroyed by soil vapor extraction activities (see graph below and Table 2).



AS System Performance: Active air sparge operations remained off for the duration of the quarter.

ANTICIPATED FOURTH QUARTER 2004 ACTIVITIES

Monitoring Activities

Cambria will gauge all monitoring wells; check wells for SPH; and collect groundwater samples from wells not containing SPH. As per the sampling schedule, wells MW-1, MW-2, MW-4, and MW-5 will be sampled during the fourth quarter event. Groundwater samples will be analyzed for TPHg by modified EPA Method 8015, and BTEX and MTBE by EPA Method 8021B. If MTBE is detected above laboratory detection limits in any sample, confirmation analysis by EPA Method 8260 will be performed. Groundwater monitoring and sampling results will be submitted to the State's GeoTracker database. Cambria will summarize groundwater monitoring activities and results in the *Groundwater Monitoring and System Progress Report - Fourth Quarter 2004.*

Corrective Action Activities

Cambria will continue to perform operation and maintenance visits of the SVE/AS system approximately two to three times per month during the fourth quarter of 2004. Optimization activities will include system vacuum adjustments to maximize subsurface air flow and extraction flow rates. During site visits, system parameters will be recorded in specialized field forms and will incorporate BAAQMD's required monitoring data. The BAAQMD does not require vapor sampling under the permit conditions governing activated vapor-phase carbon treatment, however, a system influent vapor sample will be collected on a monthly basis to calculate cumulative hydrocarbon mass removal. Passive in-well air sparging will continue in well MW-1 and will be continually monitored and optimized during system O&M events. Cambria will evaluate the performance of the remediation system and include the results with the *Groundwater Monitoring and System Progress Report - Fourth Quarter 2004.*

APPENDICES

Figure 1 - Groundwater Elevation and Hydrocarbon Concentration Map
Figure 2 - Soil Vapor Extraction/Air Sparge System Site Plan

Table 1 - Groundwater Elevations and Analytical Data
Table 2 - SVE System Performance and Soil Vapor Analytical Results
Table 3 - SVE System Parameters

Appendix A – Benzene Concentration and Depth to Water versus Time Trend Graphs
Appendix B – Groundwater Monitoring Field Data Sheets
Appendix C – Analytical Results for Groundwater Sampling
Appendix D – Analytical Results for SVE System Operation
Appendix E – GeoTracker Electronic Delivery Confirmations

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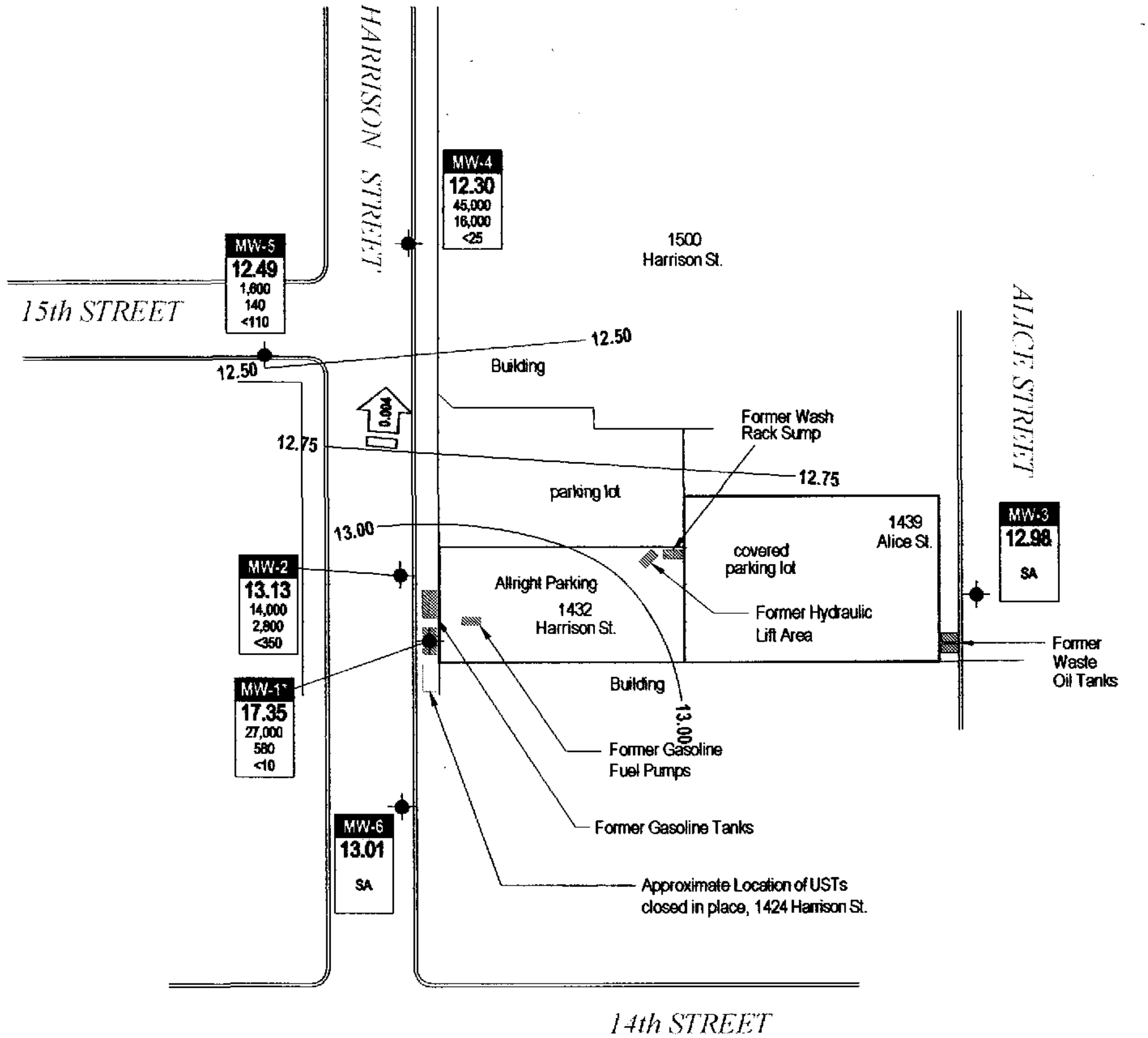


EXPLANATION

●	Groundwater monitoring well	Well ID	Well designation
13.00 ———	Groundwater elevation contour, in feet above mean sea level (msl)	ELEV	Groundwater elevation, in feet above mean sea level (msl)
⇨ 0.004	Groundwater flow direction and gradient	TPHg / Benzene / MTBE	Hydrocarbons and MTBE in groundwater, in micrograms per liter (µg/L)
		SA	Sampled Annually

* = Groundwater mounding exists at well MW-1 due to soil vapor extraction on the well. Data not used in groundwater elevation contours.

N

0 50 100

Scale (ft)

FIGURE

1

Allright Parking

1432 Harrison Street

Oakland, California

CAMBRIA

Groundwater Elevation and Hydrocarbon Concentration Map

September 27, 2004

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Allright Parking, 1432 Harrison Street, Oakland, California

Date	Hour Meter Readings (hrs)	System Uptime (%)	System Vacuum ("H2O)	Total Well Flow Rate (prior to dilution) (scfm)	Total Well HC Conc. (ppmv) TPHg	System Inlet Temp. (degrees F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc. [1] (ppmv) TPHg	Effluent HC Conc. [1] (ppmv) TPHg	Effluent HC Conc. [1] (ppmv) Benz	HC Removal Rate [2] (lbs/day) TPHg	Emission Rate [2] (lbs/day) TPHg	Emission Rate [2] (lbs/day) Benz	TPHg Destruction Efficiency [3] (%)	Gasoline Cumulative Removal [4] (lbs)
12/20/2001	13.0	--		--	17,000	825	170	920	<10	<0.15	50.18	<0.545	<0.007	--[3]	0
1/7/2002	443.8	100%		--	12,000	1017	105	1,400	<10	<0.15	47.16	<0.337	<0.005	--[3]	901
2/4/2002	576.2	20%		--	13,000	916	150	1,100	<10	<0.15	52.94	<0.481	<0.007	--[3]	1161
3/5/2002	1268.2	99%		--	16,000	1020	135	1,000	<10	<0.15	43.31	<0.433	<0.006	--[3]	2687
4/2/2002	1939.9	100%		--	4,800	715	114	390	<10	<0.15	14.26	<0.366	<0.005	--[3]	3899
4/15/2002	2253.2	100%	136	18.3	4,200	709	*	*	28	<0.15	24.67	0.16	<0.001	99.3	4086
5/6/2002	2655.2	80%	77	10.1	5,100	735	*	*	14	<0.15	16.58	0.05	<0.000	99.7	4499
6/5/2002	3373.2	100%	80	15.1	3,800	652	*	*	14	<0.15	18.41	0.07	<0.001	99.6	4995
7/2/2002	4024.9	101%	80	16.3	3,000	672	*	*	<15	0.16	15.70	<0.078	<0.001	99.5	5495
8/5/2002	4838.8	100%	80	11.6	1,900	667	*	*	<10	<0.15	7.10	<0.037	<0.001	--[3]	6027
9/10/2002	5700.9	100%	80	10.5	1,800	609	*	*	<10	<0.15	6.08	<0.034	<0.000	--[3]	6282
10/2/2002	6229.7	100%	81	14.0	2,900	801	*	*	<10	<0.15	13.04	<0.045	<0.001	--[3]	6416
11/6/2002	7073.8	100%	82	12.1	1,900	848	*	*	<10	<0.15	7.40	<0.039	<0.001	--[3]	6875
12/5/2002	7771.5	100%	90	8.4	1,400	840	*	*	<10	<0.15	3.78	<0.027	<0.000	--[3]	7090

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Allright Parking, 1432 Harrison Street, Oakland, California

Date	Hour Meter Readings (hrs)	System Uptime (%)	System Vacuum ("H2O)	Total Well Flow Rate (prior to dilution) (scfm)	Total Well HC Conc. (ppmv) TPHg	System Inlet Temp. (degrees F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc. [1] (ppmv) TPHg	Effluent HC Conc. [1] (ppmv) TPHg	Effluent HC Conc. [1] (ppmv) Benz	HC Removal Rate [2] (lbs/day) TPHg	Emission Rate [2] (lbs/day) TPHg	Emission Rate [2] (lbs/day) Benz	TPHg Destruction Efficiency [3] (%)	Gasoline Cumulative Removal [4] (lbs)
1/8/2003	8580.5	99%	91	9.5	3,100	813	*	*	<10	<0.15	9.42	<0.030	<0.000	--[3]	7217
2/12/2003	9424.0	100%	93	7.6	5,200	801	*	*	<10	<0.15	12.61	<0.024	<0.000	--[3]	7548
3/4/2003	9902.8	100%	90	5.5	4,100	798	*	*	<10	<0.15	7.27	<0.018	<0.000	--[3]	7800
4/3/2003	10623.3	100%	115	9.5	1,600	802	*	*	<10	<0.15	4.86	<0.030	<0.000	--[3]	8018
5/15/2003	11629.8	100%	119	6.7	1,300	840	*	*	<10	<0.15	2.80	<0.022	<0.000	--[3]	8222
6/2/2003	12061.5	100%	116	4.4	526	805	*	*	<10	<0.15	0.75	<0.014	<0.000	--[3]	8272
7/2/2003	12779.5	100%	120	9.0	680	836	*	*	<10	<0.15	1.95	<0.029	<0.000	--[3]	8295
8/7/2003	13643.9	100%	117	7.6	370	749	*	*	<10	<0.15	0.90	<0.024	<0.000	--[3]	8365
9/3/2003	14288.9	100%	116	9.7	2,000	737	*	*	<10	<0.15	6.19	<0.031	<0.000	--[3]	8389
10/7/2003	15109.8	100%	119	4.5	1,100	752	*	*	<10	<0.15	1.57	<0.014	<0.000	--[3]	8601
11/11/2003	15881.9	92%	90	9.0	7,000	765	38	3,700	7.3	0.18	20.11	0.021	0.000	--[3]	8652
12/2/2003	16378.9	99%	96	3.0	2,100	717	*	*	<10	<0.15	2.01	<0.010	<0.000	--[3]	9068
1/7/2004	17180.9	93%	98	3.2	2,900	905	*	*	<10	<0.15	2.97	<0.010	<0.000	--[3]	9135

Table 2. SVE System - Performance and Soil Vapor Analytical Results: Allright Parking, 1432 Harrison Street, Oakland, California

Date	Hour Meter Readings (hrs)	System Uptime (%)	System Vacuum ("H2O)	Total Well Flow Rate (prior to dilution) (scfm)	Total Well HC Conc. (ppmv) TPHg	System Inlet Temp. (degrees F)	System Flow Rate (after dilution) (cfm)	System Influent HC Conc. [1] (ppmv) TPHg	Effluent HC Conc. [1] (ppmv) TPHg	Effluent HC Conc. [1] (ppmv) Benz	HC Removal Rate [2] (lbs/day) TPHg	Emission Rate [2] (lbs/day) TPHg	Emission Rate [2] (lbs/day) Benz	TPHg Destruction Efficiency [3] (%)	Gasoline Cumulative Removal [4] (lbs)
2/11/2004	18021.0	100%	62	4.2	760	853	*	*	<10	<0.15	1.01	<0.013	<0.000	-- [3]	9239
3/24/2004	18861.7	83%	82	5.2	3,100	796	*	*	<10	<0.15	5.16	<0.017	<0.000	-- [3]	9275
4/12/2004	19315.8	100%	79	3.9	520	839	*	*	<10	<0.15	0.65	<0.012	<0.000	-- [3]	9372
5/17/2004	19945.0	75%	70	3.9	3,600	755	*	*	<25	<0.25	4.49	<0.031	<0.000	99.3	9389
6/10/2004	20512.8	99%	80	10.0	620	792	*	*	<10	<0.15	2.00	<0.032	<0.000	-- [3]	9495
7/6/2004	20823.5	50%	70	12.3	990	--	*	*	0 [5]	--	3.92	<0.020	--	-- [3]	9521
8/12/2004	21702.2	99%	62	7.2	780	--	*	*	0 [5]	--	1.80	<0.012	--	-- [3]	9665
9/16/2004	22024.9	38%	39	9.2	1,300	--	*	*	0 [5]	--	3.85	<0.015	--	-- [3]	9689
10/11/2004	22622.5	100%	50	9.8	--	--	*	*	--	--	--	--	--	--	9785

Notes and Abbreviations:

TPHg = Total petroleum hydrocarbons as gasoline

Benz = Benzene

HC Conc. = Hydrocarbon vapor concentrations measured as TPHg and/or benzene

ppmv = Parts per million by volume. Analytical lab results converted from micrograms per liter (ug/l) to ppmv assumes the molecular weight of gasoline to be equal to that of hexane. at 1 atmosphere of pressure and 20 degrees Celsius.

scfm = standard cubic feet per minute

[1] TPHg and benzene concentrations based on Horiba gas analyzer measurements and/or lab results by Modified EPA Methods 8015 and 8020. Laboratory analytic results for TPHg and benzene are converted from ug/l to ppmv using conversion rates of 0.28 for TPHg and 0.308 for benzene.

[2] The hydrocarbon removal/emission rate is based on the Bay Area Air Quality Management's District's (BAAQMD) Procedures for Soil Vapor Extraction where Rate = concentration (ppmv) x flow rate (cfm) x 1 lb-mole/386x10^{6}ft^3 x molecular weight (86 lb/lb-mole for TPHg, 78 lb/lb-mole for benzene) x 1440 min/day.

[3] As per BAAQMD Permit, destruction efficiency requirements are waived if system TPHg effluent concentration is <10.

[4] Gasoline Cumulative Removal = The previous removal rates multiplied by the interval days of operation plus the previous total removal amount. The total TPHg removal is based on analytic results and/or field measurements.

[5] As per the Bay Area Air Quality Management District's letter dated July 9, 2004 effluent analysis is no longer required. Effluent hydrocarbon concentrations are measure using a field Horiba gas analyzer.

* = Flow Rate and Hydrocarbon Concentrations are now measured from the well manifold because there is no longer any dilution air affecting the calculation of the hydrocarbon removal rate.

-- = Not available, not measured, or not applicable.

Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
MW-1	11/11/2003	105	1.0	26,000	open
	11/17/2003	85	0.7	3,530	open
	12/2/2003	94	1.0	5,700	open
	12/10/2003	93	1.6	11,000	open
	12/23/2003	95	0.8	10,000	open
	1/7/2004	98	0.9	5,050	open
	1/23/2004	82	0.59	13,100	open
	1/30/2004	81	*	--	open
	2/11/2004	62	2.6	160	open
	3/3/2004	47	1.0	1,200	open
	3/3/2004	150	4.8	589	open
	3/10/2004	146	3.0	233	open
	3/24/2004	74	0.9-2.5	3,950	open
	4/2/2004	81	3.2	225	open
	4/12/2004	78	2.18	415	open
	4/27/2004	75	5.2	2,010	open
	5/6/2004	70	4.0	160	open
	5/17/2004	70	--	120	open
	5/27/2004	70	1.8	75	open
	6/10/2004	80	3.2	180	open
	6/16/2004	84	3.8	63	open
	7/6/2004	**70**	**6.0**	**410**	**open**
	7/7/2004	**72**	**6.5**	**360**	**open**
	7/8/2004	**74**	**5.0**	**300**	**open**
	7/28/2004	**34**	**6.5**	**115**	**open**
	8/12/2004	**21**	**3.0**	**270**	**open**
	8/17/2004	**40**	**6.0**	**535**	**open**
	8/25/2004	**40**	**4.4**	**360**	**open**
	9/16/2004	**22**	**5.3**	**1,425**	**open**
	9/27/2004	**--**	**4.5**	**570**	**open**
	10/11/2004	**26**	**3.9**	**500**	**open**
VES-1	12/13/2001	--	--	36,000	open
	12/20/2001	25	6.5	43,000	open
	12/27/2001	48	12.4	41,000	open
	1/7/2002	100	20.5	>10,000	open
	2/8/2002	140	27	>10,000	open
	3/5/2002	34	6.3	>10,000	open
	4/2/2002	83	13.5	10,070	open
	4/15/2002	101	28.2	10,070	open
	5/22/2002	80	22.5	9,980	open
	5/27/2002	81	4.5	27,000	open
	6/5/2002	77	22.1	11,110	open
	6/21/2002	81	*	7,810	open
	7/2/2002	82	25	10,400	open
	7/26/2002	81	22.5	5,210	open
	8/5/2002	80	5.5	6,020	open
	9/10/2002	80	5.2	9,180	open
	10/2/2002	80	10.5	11,070	open
	11/6/2002	82	9.0	4,850	open
	12/5/2002	90	8.5	4,000	open
	1/8/2003	92	5.1	2,340	open
	1/24/2003	95	4.0	2,350	open
	3/4/2003	90	3.6	1,750	open
	3/17/2003	93	7.5	1,360	open

Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
	4/3/2003	115	4.0	720	open
-->VES-1	4/14/2003	116	--	1,180	open
	5/7/2003	117	3.5	660	open
	5/15/2003	119	6.0	1,950	open
	5/27/2003	117	4.1	1,600	open
	6/13/2003	118	3.9	1,525	open
	6/23/2003	118	--	--	open
	7/2/2003	119	25*	1,270	open
	7/11/2003	118	3.5*	--	open
	8/7/2003	117	*	50	open
	8/15/2003	117	1.4*	105	closed
	8/26/2003	120	4.0	200	open
	9/3/2003	116	2.9*	190	open
	10/2/2003	116	7.0	70	closed
	10/7/2003	114	21	2	closed
	10/15/2003	118	23*	1,650	open
	10/21/2003	117	21	1,090	open
	11/17/2003	85	0.7	2,050	open
	12/2/2003	94	0.67	1,550	open
	12/10/2003	92	0.63	5,700	open
	12/23/2003	95	0.8	7,000	open
	1/7/2004	98	0.5	3,750	open
	1/23/2004	82	0.57	12,500	open
	1/30/2004	81	0.5	--	open
	2/11/2004	62	0.25	5,520	open
	3/3/2004	47	0.31	1,515	open
	3/3/2004	150	5.9	5,130	open
	3/10/2004	146	0.7	1,867	open
	3/24/2004	74	1.0	4,150	open
	4/2/2004	81	0.9	135	open
	4/12/2004	78	2.5-25*	80	open
	4/27/2004	75	1.8	55	open
	5/6/2004	70	3	2,150	open
	5/17/2004	70	--	1,485	open
	5/27/2004	70	0.9	1,030	open
	6/10/2004	80	*	1,025	open
	6/16/2004	84	1.4	460	open
	7/6/2004	**70**	*	*	**open**
	7/7/2004	**72**	*	*	**open**
	7/8/2004	**74**	*	*	**open**
	7/28/2004	**67**	*	*	**open**
	8/12/2004	**62**	**1.5**	**655**	**open**
	8/17/2004	**63**	**1.25**	**520**	**open**
	8/25/2004	**62**	**1.0**	**470**	**open**
	9/16/2004	**39**	**1.3**	**805**	**open**
	9/27/2004	**--**	**1.7**	**510**	**open**
	10/11/2004	**34**	**0.9**	**400**	**open**
VES-2	12/13/2001	--	--	40,000	open
	12/20/2001	25	6.0	42,500	open
	12/27/2001	48	12.1	35,000	open
	1/7/2002	100	21.5	>10,000	open
	2/8/2002	140	25.1	>10,000	open
	3/5/2002	34	7.6	>10,000	open
	4/2/2002	83	13.2	--	open

Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
	4/15/2002	102	24.1	1,347	open
	5/22/2002	81	26.1	1,888	open
–>VES-2	5/27/2002	81	9.5	4,710	open
	6/5/2002	79	20.7	2,090	open
	6/21/2002	82	47	1,820	open
	7/2/2002	81	28.9	5,210	open
	7/26/2002	81	13.1	1,515	open
	8/5/2002	80	10.5	1,925	open
	9/10/2002	80	8.9	1,850	open
	10/2/2002	80	8.5	3,370	open
	11/6/2002	82	9.0	2,180	open
	12/5/2002	90	--	1,870	open
	1/8/2003	92	--	6,210	open
	1/24/2003	95	4.0	9,630	open
	3/4/2003	90	2.5	5,790	open
	3/17/2003	93	--	2,020	open
	4/3/2003	115	--	3,230	open
	4/14/2003	116	--	2,980	open
	5/7/2003	117	9.0	700	open
	5/15/2003	119	8.0	475	open
	5/27/2003	117	5.3	515	open
	6/13/2003	118	4.1	525	open
	6/23/2003	118	--	--	open
	7/2/2003	119	9*	365	open
	7/11/2003	118	5*	--	open
	8/7/2003	117	15.2*	250	open
	8/15/2003	117	8.5*	365	open
	8/26/2003	121	4.2	245	open
	9/3/2003	116	*	1,295	open
	10/2/2003	120	4.0	410	open
	10/7/2003	118	17	1,120	open
	10/15/2003	119	21	1,550	open
	10/21/2003	119	21	1,675	open
	11/17/2003	85	1.9	1,115	open
	12/2/2003	94	2.0*	460	open
	12/10/2003	92	2.0	1,740	open
	12/23/2003	95	1.5	1,510	open
	1/7/2004	98	1.6	600	open
	1/23/2004	82	1.6	90	open
	1/30/2004	81	*	--	open
	2/11/2004	62	2.1*	130	open
	3/3/2004	47	0.87	3,460	open
	3/3/2004	150	6.8	883	open
	3/10/2004	146	*	3,930	open
	3/24/2004	74	1.9	6,800	open
	4/2/2004	81	1.0	3,350	open
	4/12/2004	78	1.5	1,150	open
	4/27/2004	75	2	1,170	open
	5/6/2004	70	3.8	190	open
	5/17/2004	70	--	65	open
	5/27/2004	70	33*	30	open
	6/10/2004	80	*	35	open
	6/16/2004	84	2.7	20	open
	7/6/2004	**70**	**1.5**	**110**	**open**
	7/7/2004	**72**	**1.3**	**250**	**open**

Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
	7/8/2004	**74**	**1.1**	**220**	**open**
	7/28/2004	**67**	**1.4**	**10**	**open**
	8/12/2004	**62**	**1.9**	**50**	**open**
->VES-2	**8/17/2004**	**63**	**2.6**	**40**	**open**
	8/25/2004	**62**	**1.8**	**20**	**open**
	9/16/2004	**39**	**2.1**	**820**	**open**
	9/27/2004	**--**	**1.5**	**240**	**open**
	10/11/2004	**34**	**1.3**	**310**	**open**
VES-3	12/13/2001	--	--	38,000	open
	12/20/2001	25	7.0	41,500	open
	12/27/2001	48	12	61,000	open
	1/7/2002	100	22.5	>10,000	open
	2/8/2002	140	26.5	>10,000	open
	3/5/2002	47	7.5	>10,000	open
	4/2/2002	84	11.1	--	open
	4/15/2002	102	24.8	4,260	open
	5/22/2002	85	16.5	7,090	open
	5/27/2002	81	6.7	7,010	open
	6/5/2002	85	14.7	5,290	open
	6/21/2002	80	25.5	3,450	open
	7/2/2002	82	32.2	4,820	open
	7/26/2002	81	9.3	3,400	open
	8/5/2002	80	4.5	3,380	open
	9/10/2002	80	7.1	3,150	open
	10/2/2002	80	4.0	2,140	open
	11/6/2002	82	5.5	1,215	open
	12/5/2002	90	4.5	1,015	open
	1/8/2003	92	5.5	3,840	open
	1/24/2003	95	3.0	6,040	open
	3/4/2003	90	3.5	3,430	open
	3/17/2003	93	1.3	1,980	open
	4/3/2003	115	3.5	1,900	open
	4/14/2003	116	--	1,950	open
	5/7/2003	117	1.5	1,320	open
	5/15/2003	119	2.6	1,530	open
	5/27/2003	117	1.6	1,250	open
	6/13/2003	118	1.5	1,000	open
	6/23/2003	118	--	--	open
	7/2/2003	119	14*	850	open
	7/11/2003	118	1.9	--	open
	8/7/2003	117	2.5	375	open
	8/15/2003	117	2.7	380	open
	8/26/2003	123	2.4	5	closed
	9/3/2003	116	3.9*	3,430	open
	10/2/2003	121	30*	25	closed
	10/7/2003	117	19	225	closed
	10/15/2003	118	23	30	closed
	10/21/2003	118	21	70	closed
	11/17/2003	86	2.0	1,425	open
	12/2/2003	94	1.3	280	close
	12/10/2003	92	2.2	100	open
	12/23/2003	95	2.0	50	open
	1/7/2004	98	0.6	4,810	open
	1/23/2004	82	0.25	3,620	open

Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
	1/30/2004	81	0.7	--	open
	2/11/2004	62	0.3	1,280	open
	3/3/2004	47	0.39	3,320	open
	3/3/2004	150	5.6	1,990	open
-->VES-3	3/10/2004	146	3.7	285	open
	3/24/2004	74	19.7**	40	open
	4/2/2004	81	0.5	1,240	open
	4/12/2004	78	1.85	440	open
	4/27/2004	75	0.9	425	open
	5/6/2004	70	2.1	252	open
	5/17/2004	70	--	410	open
	5/27/2004	70	1.6	220	open
	6/10/2004	80	1.9	2	open
	6/16/2004	84	2.1	15	open
	7/6/2004	**70**	**1.4**	**20**	**open**
	7/7/2004	**72**	**1.2**	**25**	**open**
	7/8/2004	**74**	**1.0**	**50**	**open**
	7/28/2004	**67**	**1.2**	**120**	**open**
	8/12/2004	**62**	**1.0**	**175**	**open**
	8/17/2004	**63**	**1.3**	**105**	**open**
	8/25/2004	**62**	**1.9**	**92**	**open**
	9/16/2004	**39**	**1.7**	**375**	**open**
	9/27/2004	**--**	**1.5**	**410**	**open**
	10/11/2004	**34**	**0.9**	**390**	**open**
VES-4	12/13/2001	--	--	35,000	open
	12/20/2001	25	4.9	46,500	open
	12/27/2001	48	12.2	53,000	open
	1/7/2002	100	23	>10,000	open
	2/8/2002	140	28.1	>10,000	open
	3/5/2002	47	9.3	>10,000	open
	4/2/2002	84	11.5	--	open
	4/15/2002	102	22.5	5,350	open
	5/22/2002	80	21.7	570	open
	5/27/2002	81	6.3	10,460	open
	6/5/2002	80	18	4,490	open
	6/21/2002	81	41.5	2,580	open
	7/2/2002	81	38	9,690	open
	7/26/2002	81	2.3	2,230	open
	8/5/2002	80	4.4	6,160	open
	9/10/2002	80	5.5	2,410	open
	10/2/2002	80	3.5	1,777	open
	11/6/2002	82	4.5	920	open
	12/5/2002	90	7.0	420	open
	1/8/2003	92	4.0	1,805	open
	1/24/2003	95	5.0	2,720	open
	3/4/2003	90	4.0	1,390	open
	3/17/2003	93	1.0	1,300	open
	4/3/2003	115	2.3	1,090	open
	4/14/2003	116	--	1,050	open
	5/7/2003	117	1.8	610	open
	5/15/2003	119	2.7	2,100	open
	5/27/2003	117	2.0	1,850	open
	6/13/2003	118	2.0	1,800	open
	6/23/2003	118	--	--	open

Table 3. SVE System Parameters - Allright Parking, 1432 Harrison Street, Oakland, California

Well ID	Date	Well Vacuum (inches of H_2O)	Flow Rate (cfm)	Hydrocarbon Vapor Concentration (ppmv)	Status (open/closed)
	7/2/2003	119	17*	1,550	open
	7/11/2003	118	2.2	--	open
	8/7/2003	117	2.6	1,550	open
	8/15/2003	117	2.8	630	open
	8/26/2003	122	3.7	465	open
-->VES-4	9/3/2003	--	--	25	closed
	10/2/2003	117	7.5	2,550	open
	10/7/2003	116	17	15	close
	10/15/2003	117	30	75	closed
	10/21/2003	117	28	50	closed
	11/17/2003	86	3.0	70	closed
	12/10/2003	92	3.0	2,850	open
	12/23/2003	95	0.5	2,300	open
	1/7/2004	98	1.0	46,000	open
	1/23/2004	82	0.65	12,000	open
	1/30/2004	81	*	--	open
	2/11/2004	62	0.45	4,770	open
	3/3/2004	47	0.93	7,010	open
	3/3/2004	150	2.2	4,270	open
	3/10/2004	146	1.6	65	open
	3/24/2004	74	0.7	3,500	open
	4/2/2004	81	0.9	120	open
	4/12/2004	78	5.5	170	open
	4/27/2004	75	2.1	60	open
	5/6/2004	70	2.8	1,740	open
	5/17/2004	70	--	1,120	open
	5/27/2004	70	1.1	2,560	open
	6/10/2004	80	*	4,300	open
	6/16/2004	84	1.0	1,840	open
	7/6/2004	**70**	**1.3**	**3,150**	**open**
	7/7/2004	**72**	**1.0**	**4,880**	**open**
	7/8/2004	**74**	**1.2**	**3,550**	**open**
	7/28/2004	**67**	**1.1**	**1,615**	**open**
	8/12/2004	**62**	**2.2**	**3,160**	**open**
	8/17/2004	**63**	**1.1**	**55**	**open**
	8/25/2004	**62**	**1.6**	**1,310**	**open**
	9/16/2004	**39**	**1.7**	**2,630**	**open**
	9/27/2004	**--**	**1.6**	**1,920**	**open**
	10/11/2004	**34**	**1.2**	**2,220**	**open**

Notes:

Hydrocarbon concentrations are measured using a Horiba MEXA-554 gas analyzer. Concentration readings above 10,000 ppmv are above the instrument calibration and are not reliable.

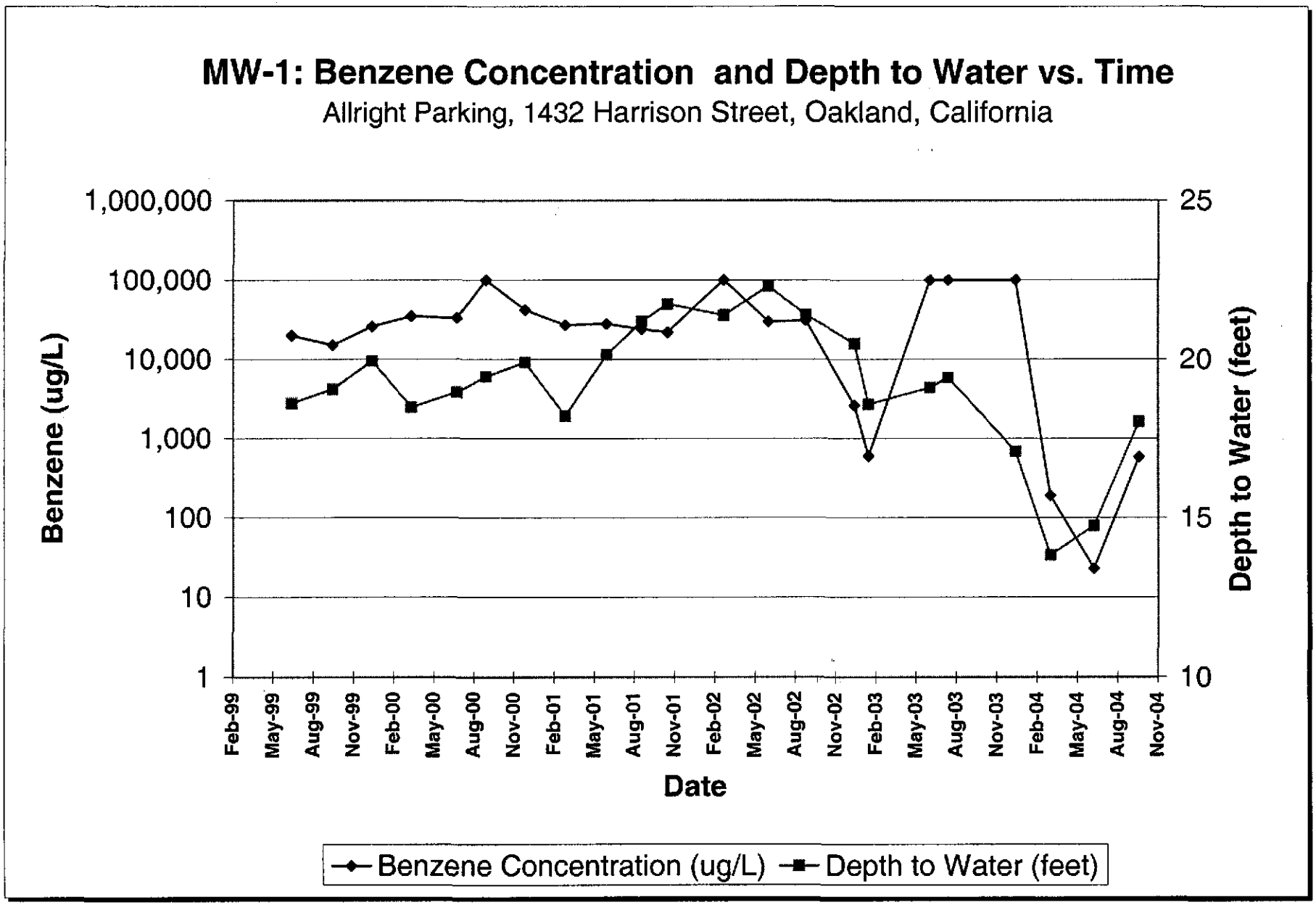
-- = Data not available or not collected

* = Unable to get reading due to the presence of water

** = Well seal cracked, allowing ambient air to short-circuit vapor extraction. Well seal replaced.

APPENDIX A

Benzene Concentration and Depth to Water versus Time Trend Graphs



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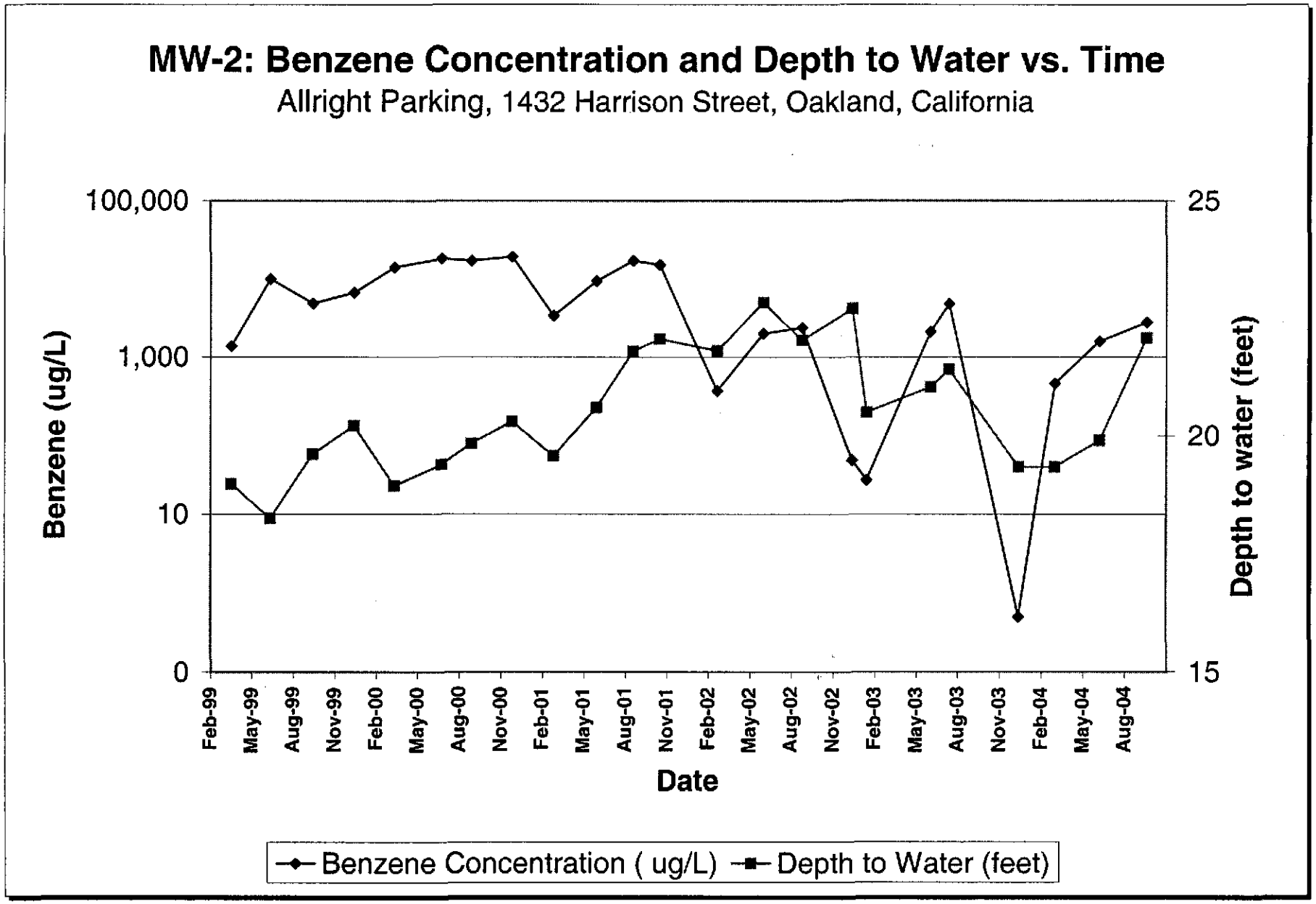

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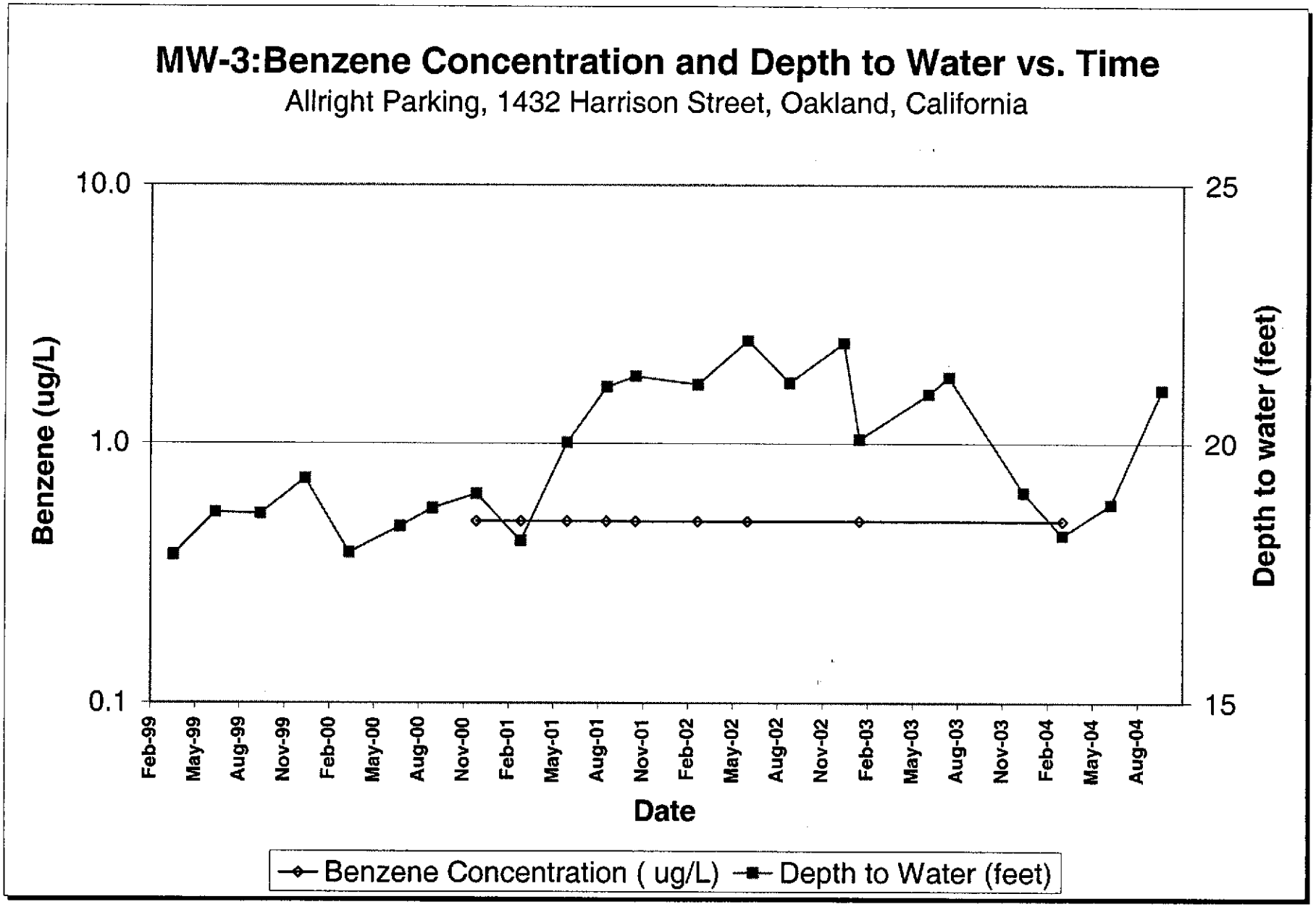

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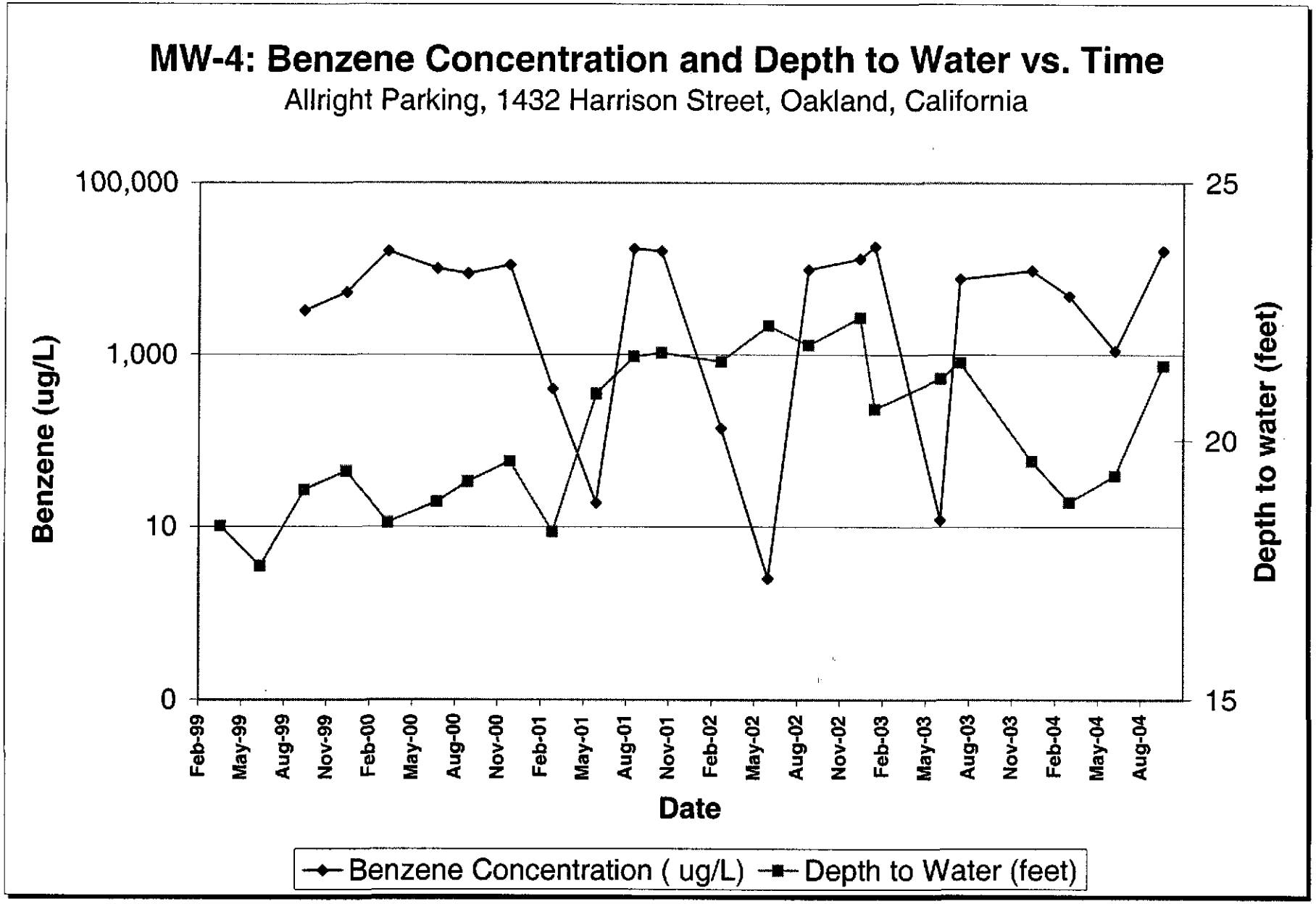
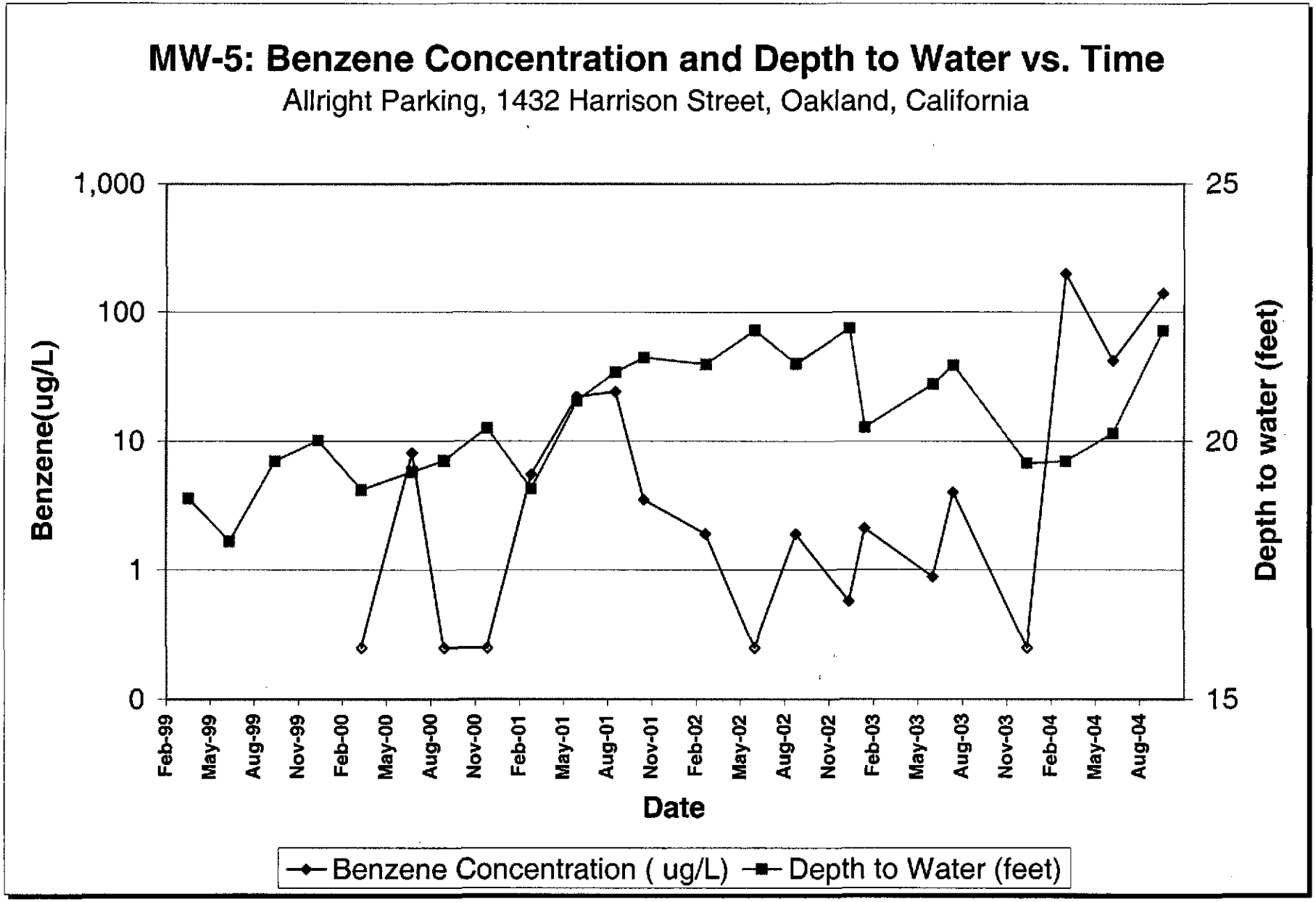


H:\Borsuk - Oakland\QM\2004\MW-4 Chart 1



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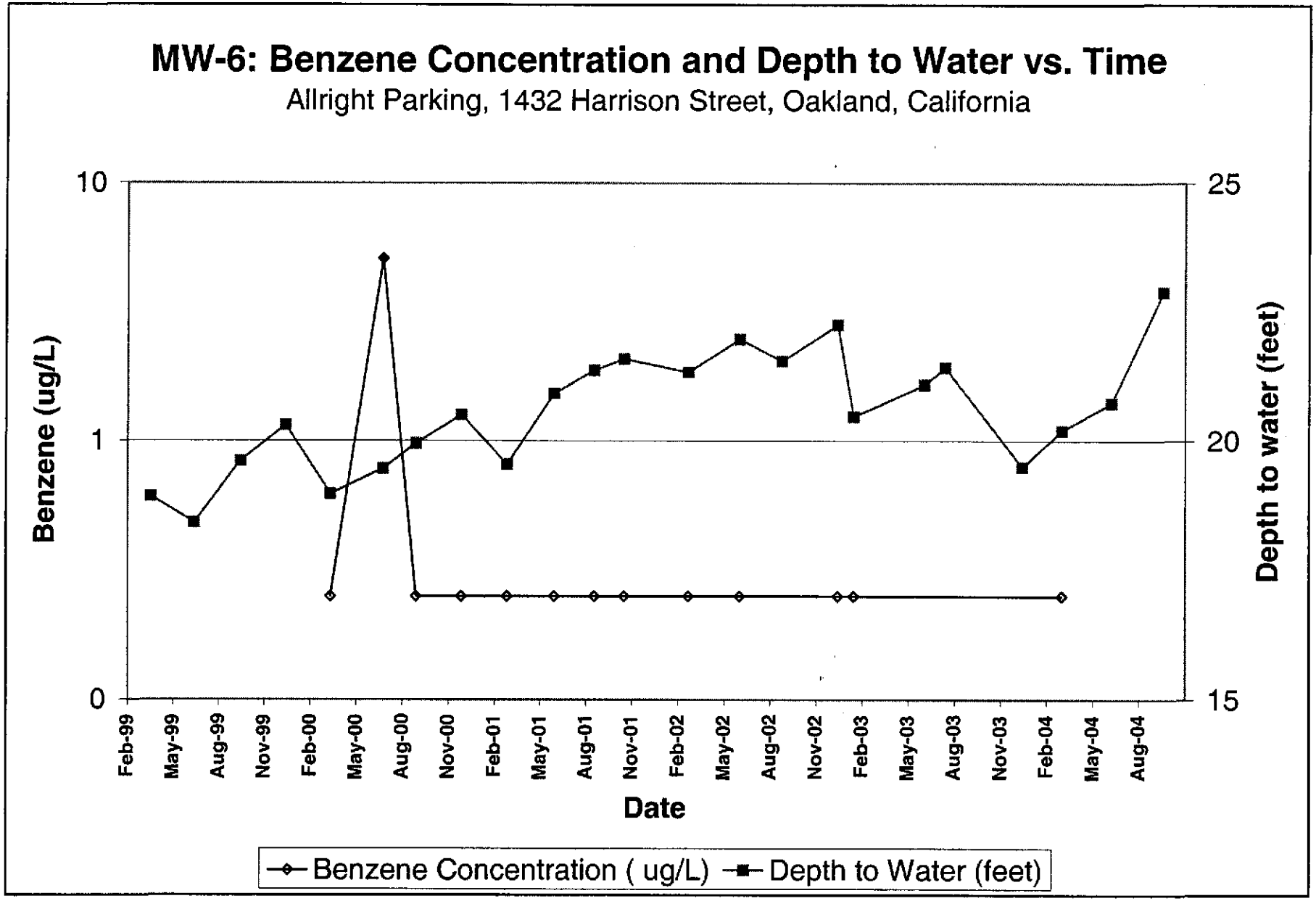

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APPENDIX B

Groundwater Monitoring Field Data Sheets

CAMBRIA

Groundwater Monitoring Field Sheet

Well ID	Time	DTP	DTW	Depth to Bottom	Product Thickness	Amount of Product Removed	Casing Diam.	Comments
MW-1	2:35		18.02					
MW-2	12:00		22.08					
MW-3	11:25		21.03					
MW-4	11:50		21.45					
MW-5	11:40		22.14					
MW-6	11:30		22.88					

Project Name: Borsuk

Project Number/Task: 540-0188/

Technician: J. Hill

Date: 9-27-04

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: SN	Well ID: MW-1
Project Number: 540-0188	Date: 9-27-04	Well Yield:
Site Address: 1432 Harrison St. Oakland, CA	Sampling Method: disposable bailer	Well Diameter: 4" pvc
		Technician(s): SG
Initial Depth to Water: 18.02	Total Well Depth: 21.60	Water Column Height: 3.58 ~~3.58~~
Volume/ft: ~~0.65~~	1 Casing Volume: 2.32	3 Casing Volumes: 6.96
Purging Device: disposable bailer	Did Well Dewater?: yes	Total Gallons Purged: 3
Start Purge Time: 2:40	Stop Purge Time: 2:44	Total Time: 4 mins

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
2:45	3 gallons	well dewatered			odor, sheen
					80% recharge at 3:15
					DTW=17.58

Fe = **mg/L** **ORP =** **mV** **DO =** **mg/L**

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-1	9-27-04	3:20	3 VOA	HCl		

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: SN	Well ID: MW-2
Project Number: 540-0188	Date: 9-27-04	Well Yield:
Site Address: 1432 Harrison St. Oakland, CA	Sampling Method: disposable bailer	Well Diameter: 2 ☐ pvc
		Technician(s): SG
Initial Depth to Water: 22.08	Total Well Depth: 25.40	Water Column Height: 3.32
Volume/ft: 0.16	1 Casing Volume: 0.53	3 Casing Volumes: 1.59
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 1.5
Start Purge Time: 1:50	Stop Purge Time: 2:04	Total Time: 14 mins

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
1:55	.5	19.6	7.03	1290	slow recharge
2:00	1.0	19.6	6.98	1620	
2:05	1.5	19.9	6.95	1880	

Fe = **mg/L** **ORP =** **mV** **DO =** **mg/L**

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-2	9-27-04	2:10	3 VOA	HCl		

D:\TEMPLATE\FORMS\FIELD\WELLSAMP2.WPD
NSM 5/31/94

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: SN	Well ID: MW-4
Project Number: 540-0188	Date: 9-27-04	Well Yield:
Site Address: 1432 Harrison St. Oakland, CA	Sampling Method: disposable bailer	Well Diameter: 2 0 pvc
		Technician(s): SG
Initial Depth to Water: 21.45	Total Well Depth: 24.50	Water Column Height: 3.05
Volume/ft: 0.16	1 Casing Volume: 0.48	3 Casing Volumes: 1.46
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 1.5
Start Purge Time: 1:20	Stop Purge Time: 1:34	Total Time: 14mins

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
1:25	0.5	19.0	7.02	810	
1:30	1.0	18.8	6.93	942	
1:35	1.5	19.0	6.97	998	

Fe = **mg/L** **ORP =** **mV** **DO =** **mg/L**

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-4	9-27-04	1:40	3 voa	HCl		

CAMBRIA

WELL SAMPLING FORM

Project Name: Borsuk	Cambria Mgr: SN	Well ID: MW-5
Project Number: 540-0188	Date: 9-27-04	Well Yield:
Site Address: 1432 Harrison St. Oakland, CA	Sampling Method: disposable bailer	Well Diameter: 2" pvc
		Technician(s): SG
Initial Depth to Water: 22.14	Total Well Depth: 28.34	Water Column Height: 6.20
Volume/ft: 0.16	1 Casing Volume: 0.99	3 Casing Volumes: 2.97
Purging Device: disposable bailer	Did Well Dewater?: no	Total Gallons Purged: 3
Start Purge Time: 12:25	Stop Purge Time: 12:39	Total Time: 14 mins

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

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

Time	Casing Volume	Temp. (°C)	pH	Cond. (uS)	Comments
12:30	1	19.2	7.04	672	
12:35	2	19.6	7.13	690	
12:40	3	19.6	7.10	725	

Fe = **mg/L** **ORP =** **mV** **DO =** **mg/L**

Sample ID	Date	Time	Container Type	Preservative	Analytes	Analytic Method
MW-5	9-27-04	12:45	3 VOA	HCl		

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No

Report To: Matt Meyers Bill To: Cambria

Company: Cambria Environmental Technology Inc.

5900 Hollis Street STE-A

Emeryville, CA 94608 E-mail:

Tele: 510-420-3314 Fax: 510-420-9170

Project #: 540-0188 Project Name: Borsuk

Project Location: 1432 Harrison St. Oakland, CA

Sampler Signature: J. Hall

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 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	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: MTBE by 8260	Other: Confirm all MTBE by 8260	Comments
MW-1		9-27-04	3:20	3	Voa	X					X	X			X															X		
MW-2		9-27-04	2:10			X					X	X			X																X	
MW-4		9-27-04	1:40			X					X	X			X																X	
MW-5		9-27-04	12:45	↓	↓	X					X	X			X															X		

Relinquished By:	Date:	Time:	Received By:
J. Hall	9-29-04	12:35	Mel Vall
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks: Report Results in Lowest possible detection limits

APPENDIX C

Analytical Results for Groundwater Sampling

McCampbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188; Borsuk	Date Sampled: 09/27/04 Date Received: 09/29/04
	Client Contact: Matt Meyers	Date Reported: 10/05/04
	Client P.O.:	Date Completed: 10/05/04

WorkOrder: 0409459

October 05, 2004

Dear Matt:

Enclosed are:

1). the results of 4 analyzed samples from your **#540-0188; Borsuk project,**

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188; Borsuk	Date Sampled: 09/27/04
5900 Hollis St, Suite A		Date Received: 09/29/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 10/02/04-10/04/04
	Client P.O.:	Date Analyzed: 10/02/04-10/04/04

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0409459

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	27,000,a,i	ND<500	580	2000	56	6800	100	103
002A	MW-2	W	14,000,a	ND<350	2800	490	340	1600	10	109
003A	MW-4	W	45,000,a	ND<1200	16,000	260	1700	2000	10	85.0
004A	MW-5	W	1600,a	ND<110	140	4.8	45	18	1	89.0
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188; Borsuk	Date Sampled: 09/27/04
5900 Hollis St, Suite A		Date Received: 09/29/04
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 09/29/04
	Client P.O.:	Date Analyzed: 09/29/04

Methyl tert-Butyl Ether*

Extraction method: SW5030B Analytical methods: SW8260B Work Order: 0409459

Lab ID	Client ID	Matrix	Methyl-t-butyl ether (MTBE)	DF	% SS
001B	MW-1	W	ND<10,j,i	20	100
003B	MW-4	W	ND<25,j	50	101

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

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

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

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

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content; k) client defined reporting limit.

RL = Reporting Limit; MDL = Method Detection Limit; DF = Dilution Factor; J = Estimated value; concentration detected between the MDL and RL.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8260B

Matrix: W WorkOrder: 0409459

EPA Method: SW8260B	Extraction: SW5030B			BatchID: 13376		Spiked Sample ID: 0409451-001B				
Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Methyl-t-butyl ether (MTBE)	ND	10	94.3	100	5.81	104	97.8	5.93	70	130
%SS1:	110	10	99	101	1.27	103	99	3.80	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

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

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS Certification No. 1644

QA/QC Officer

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W WorkOrder: 0409459

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 13380 Spiked Sample ID: 0409457-001A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	ND	60	89.2	95	6.23	91.2	92.9	1.85	70	130
MTBE	ND	10	101	106	5.03	89.4	94	5.02	70	130
Benzene	ND	10	99.9	105	5.07	94.8	95.2	0.424	70	130
Toluene	ND	10	93.9	103	9.06	106	106	0	70	130
Ethylbenzene	ND	10	90.5	103	12.4	116	116	0	70	130
Xylenes	ND	30	84.7	89.7	5.74	117	120	2.82	70	130
%SS:	101	10	100	104	4.08	98	97	1.24	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS Certification No. 1644

QA/QC Officer

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0409459 **ClientID: CETE**

Report to:
Matt Meyers
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #540-0188; Borsuk
PO:

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

Requested TAT: **5 days**
Date Received: **9/29/04**
Date Printed: **9/29/04**

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0409459-001	MW-1	Water	9/27/04 3:20:00 PM	☐	A	B	A												
0409459-002	MW-2	Water	9/27/04 2:10:00 PM	☐	A														
0409459-003	MW-4	Water	9/27/04 1:40:00 PM	☐	A	B													
0409459-004	MW-5	Water	9/27/04 12:45:00	☐	A														

Test Legend:

1	G-MBTEX_W	2	MTBE_W	3	PREDF REPORT	4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

Comments:

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

0409459

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☒ Yes ☐ No

Report To: Matt Meyers Bill To: Cambria

Company: Cambria Environmental Technology Inc.

5900 Hollis Street STE-A

Emeryville, CA 94608 E-mail:

Tele: 510-420-3314 Fax: 510-420-9170

Project #: 540-0188 Project Name: Borsuk

Project Location: 1432 Harrison St. Oakland, CA

Sampler Signature: J. Hall

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 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	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: MTBE by 8260	Other: Confirm all MTBE by 8260	Comments
12																																
MW-1		9-27-04	3:20	3	VOA	X					X	X			X															X		
+ MW-2		9-27-04	2:10	↓	↓	X					X	X			X															X	X	
+ MW-4		9-27-04	1:40			X					X	X			X																	
+ MW-5		9-27-04	12:45			X					X	X			X															X	X	

ICE/t° ✓
GOOD CONDITION ✓ APPROPRIATE ✓
HEAD SPACE ABSENT ✓ CONTAINERS
DECHLORINATED IN LAB PRESERVED IN LAB
PRESERVATION VOAS | O&G | METALS | OTHER

Relinquished By:	Date:	Time:	Received By:
J. Hall	9-29-04	12:35	Mel Vallo
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Remarks: Report Results in lowest possible detection limits

APPENDIX D

Analytical Results for SVE System Operation

McCampbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188-61; BORSUK	Date Sampled: 07/06/04
		Date Received: 07/07/04
	Client Contact: Gretchen Hellmann	Date Reported: 07/13/04
	Client P.O.:	Date Completed: 07/13/04

WorkOrder: 0407105

July 13, 2004

Dear Gretchen:

Enclosed are:

1). the results of **1** analyzed sample from your **#540-0188-61; BORSUK project,**

2). a QC report for the above sample

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188-61; BORSUK	Date Sampled: 07/06/04
5900 Hollis St, Suite A		Date Received: 07/07/04
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Extracted: 07/08/04
	Client P.O.:	Date Analyzed: 07/08/04

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0407105

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	990,a	ND<10	3.3	6.1	ND<1.0	21	4	119

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	10	1.5	0.15	0.15	0.15	0.15	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: A WorkOrder: 0407105

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 12272 Spiked Sample ID: N/A

	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	uL/L	uL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	N/A	60	N/A	N/A	N/A	97.2	98.6	1.44	70	130
MTBE	N/A	10	N/A	N/A	N/A	117	111	5.24	70	130
Benzene	N/A	10	N/A	N/A	N/A	110	109	0.255	70	130
Toluene	N/A	10	N/A	N/A	N/A	104	104	0	70	130
Ethylbenzene	N/A	10	N/A	N/A	N/A	111	108	2.60	70	130
Xylenes	N/A	30	N/A	N/A	N/A	96.7	95.3	1.39	70	130
%SS:	N/A	10	N/A	N/A	N/A	97.6	103	4.92	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS Certification No. 1644

QA/QC Officer

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0407105 **ClientID: CETE**

Report to:
Gretchen Hellmann
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #540-0188-61; BORSUK
PO:

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

Requested TAT: 5 days
Date Received: 7/7/04
Date Printed: 7/7/04

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0407105-001	INF	Air	7/6/04 2:00:00 PM	☐	A														

Test Legend:

1 G-MBTEX_PPMV	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Prepared by: Melissa Valles

Comments:

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

0467105

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☐ Yes ☒ No

Report To: Gretchen Hellmann Bill To: SAME

Company: Cambria Environmental Technology, Inc.

5900 Hollis Street Suite A

Emeryville, CA 94608 E-mail: ghellmann@cambria-env.com

Tele: 510 420-3305 Fax: 510 420-9170

Project #: 540-0188-61 Project Name: BORSUK

Project Location: 1432 Harrison Street, Oakland, California

Sampler Signature:

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 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	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
INF	System	7/6/09	2pm	1	Tb			X							X																

ICE/t° _____
GOOD CONDITION ✓
HEAD SPACE ABSENT _____
DECHLORINATED IN LAB _____
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB _____
PRESERVATION VOAS | O&G | METALS | OTHER

Relinquished By:	Date:	Time:	Received By:
	7/6/09	3:30p	Secured Location
	7-7-09	13:50	Mark Cobern
UPS Track #38	7/7	14:45	

Remarks: Report in ppm(v); Reporting Limit is 10 ppm(v).

Use 20 mL injection volume.

Please email results.

McCampbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #5401-0188-61; BORSUK	Date Sampled: 08/12/04
		Date Received: 08/13/04
	Client Contact: Gretchen Hellmann	Date Reported: 08/19/04
	Client P.O.:	Date Completed: 08/19/04

WorkOrder: 0408187

August 19, 2004

Dear Gretchen:

Enclosed are:

1). the results of 1 analyzed sample from your **#5401-0188-61; BORSUK project,**

2). a QC report for the above sample

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #5401-0188-61; BORSUK	Date Sampled: 08/12/04
5900 Hollis St, Suite A		Date Received: 08/13/04
Emeryville, CA 94608	Client Contact: Gretchen Hellmann	Date Extracted: 08/13/04
	Client P.O.:	Date Analyzed: 08/13/04

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0408187

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	780,a	ND<5.0	2.2	2.7	ND<0.5	14	2	107

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	10	1.5	0.15	0.15	0.15	0.15	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: A WorkOrder: 0408187

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 12704 Spiked Sample ID: N/A

	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	uL/L	uL/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	N/A	60	N/A	N/A	N/A	95.7	98	2.32	70	130
MTBE	N/A	10	N/A	N/A	N/A	93.6	107	13.5	70	130
Benzene	N/A	10	N/A	N/A	N/A	99.5	106	5.98	70	130
Toluene	N/A	10	N/A	N/A	N/A	94.8	99.1	4.44	70	130
Ethylbenzene	N/A	10	N/A	N/A	N/A	98.3	106	7.18	70	130
Xylenes	N/A	30	N/A	N/A	N/A	90.7	95.3	5.02	70	130
%SS:	N/A	10	N/A	N/A	N/A	100	100	0	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS Certification No. 1644

QA/QC Officer

EETE

0408187

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☐ Yes ☒ No

Report To:	Gretchen Hellmann	Bill To:	SAME
Company:	Cambria Environmental Technology, Inc.		
	5900 Hollis Street Suite A		
	Emeryville, CA 94608	E-mail:	ghellmann@cambria-env.com
Tele:	510 420-3305	Fax:	510 420-9170
Project #:	540-0188-61	Project Name:	BORSUK
Project Location:	1432 Harrison Street, Oakland, California		
Sampler Signature:			

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 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	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other	Comments
INF	System	8/12/04	4pm	1	Tb			X							X																

	Date:	Time:	Received By:
Relinquished By:	8/12/04	6:30p	Stamped location
Relinquished By:	Date:	Time:	Received By: Scott Brown
Relinquished By: Scott Brown	8/13/04	1325	Received By:

Remarks: Report in ppm(v); Reporting Limit is 10 ppm(v).

Use 20 mL injection volume.

Please email results.

ICE/T ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE ✓
CONTAINERS
PRESERVED IN LAB

PRESERVATION	VOAS	O&G	METALS	OTHER

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0408187 **ClientID: CETE**

Report to:
Gretchen Hellmann
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #5401-0188-61; BORSUK
PO:

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

Requested TAT: 5 days
Date Received: 8/13/04
Date Printed: 8/13/04

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)														
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0408187-001	INF	Air	8/12/04 4:00:00 PM	☐	A														

Test Legend:

1	G-MBTEX_PPMV	2		3		4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Elisa Venegas

Comments: Report in PPMV; reporting limit is 10 ppmv

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

McCampbell Analytical, Inc.

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

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #540-0188-61; BORSUK	Date Sampled: 09/16/04
		Date Received: 09/17/04
	Client Contact: Ron Scheele	Date Reported: 09/24/04
	Client P.O.:	Date Completed: 09/24/04

WorkOrder: 0409276

September 24, 2004

Dear Ron:

Enclosed are:

1). the results of **1** analyzed sample from your **#540-0188-61; BORSUK project,**

2). a QC report for the above sample

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

Cambria Env. Technology	Client Project ID: #540-0188-61; BORSUK	Date Sampled: 09/16/04
5900 Hollis St, Suite A		Date Received: 09/17/04
Emeryville, CA 94608	Client Contact: Ron Scheele	Date Extracted: 09/18/04
	Client P.O.:	Date Analyzed: 09/18/04

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0409276

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	INF	A	1300,a	ND<25	6.5	13	ND<2.5	26	10	98.3

ppm (mg/L) to ppmv (ul/L) conversion for TPH(g) assumes the molecular weight of gasoline to be equal to that of hexane.

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	A	10	1.5	0.15	0.15	0.15	0.15	1	uL/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.

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

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: A WorkOrder: 0409276

EPA Method: SW8021B/8015Cm Extraction: SW5030B BatchID: 13207 Spiked Sample ID: N/A

Analyte	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex)£	N/A	60	N/A	N/A	N/A	97.2	91.6	5.94	70	130
MTBE	N/A	10	N/A	N/A	N/A	99.4	98.7	0.640	70	130
Benzene	N/A	10	N/A	N/A	N/A	106	106	0	70	130
Toluene	N/A	10	N/A	N/A	N/A	98.8	108	9.17	70	130
Ethylbenzene	N/A	10	N/A	N/A	N/A	104	102	2.13	70	130
Xylenes	N/A	30	N/A	N/A	N/A	91	90.3	0.735	70	130
%SS:	N/A	10	N/A	N/A	N/A	105	108	2.76	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

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

DHS Certification No. 1644

QA/QC Officer

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0409276 **ClientID: CETE**

Report to:
Ron Scheele
Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608
TEL: (510) 420-0700
FAX: (510) 420-9170
ProjectNo: #540-0188-61; BORSUK
PO:

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

Requested TAT: 5 days
Date Received: 9/17/04
Date Printed: 9/24/04

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0409276-001	INF	Air	9/16/04 2:00:00 PM	☐	A														

Test Legend:

1 G-MBTEX_PPMV	2	3	4	5
6	7	8	9	10
11	12	13	14	15

Prepared by: Melissa Valles

Comments:

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

040916

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☐ Yes ☒ No

Report To: ~~Gretchen Hellmann~~ Ron Scheele Bill To: SAME

Company: Cambria Environmental Technology, Inc.

5900 Hollis Street Suite A rscheele

Emeryville, CA 94608 E-mail: ~~ghellmann~~@cambria-env.com

Tele: 510 420-3305 Fax: 510 420-9170

Project #: 540-0188-61 Project Name: BORSUK

Project Location: 1432 Harrison Street, Oakland, California

Sampler Signature:

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other
INF	System	9/16/04	2:00	1	Tb			X						

Analysis Request	Other	Comments
BTEX & TPH as Gas (602/8020 + 8015)/ MTBE: X		
TPH as Diesel (8015)		
Total Petroleum Oil & Grease (5520 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		
PAH's / PNA's by EPA 625 / 8270 / 8310		
CAM-17 Metals		
LUFT 5 Metals		
Lead (7240/7421/239.2/6010)		
RCI		

ICE/t°
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB
PRESERVATION VOAS | O&G | METALS | OTHER

Relinquished By:	Date:	Time:	Received By:
	9/16/04	4:30	Served Location
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:
	09/17/04	6:15p	

Remarks: Report in ppm(v); Reporting Limit is 10 ppm(v).

Use 20 mL injection volume.

Please email results.

APPENDIX E

Geotracker Electronic Delivery Confirmations

Electronic Submittal Information

Main Menu | View/Add Facilities | Upload EDD | Check EDD

Your EDF file has been succcessfully uploaded!

Confirmation Number: 8207715749
Date/Time of Submittal: 10/20/2004 3:46:58 PM
Facility Global ID: T0600100682
Facility Name: A BACHARACH TR & B BORSUK
Submittal Title: 3rd Qtr 2004 GW Analytical Data
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

A BACHARACH TR & B BORSUK
1432 HARRISON ST
OAKLAND, CA 94612

Regional Board - Case #: 01-0739
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 498
ALAMEDA COUNTY LOP - **(UNK)**

CONF #	TITLE	QUARTER
8207715749	3rd Qtr 2004 GW Analytical Data	Q3 2004

SUBMITTED BY	SUBMIT DATE	STATUS
Matt Meyers	10/20/2004	PENDING REVIEW

SAMPLE DETECTIONS REPORT

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

METHOD QA/QC REPORT

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

QA/QC FOR 8021/8260 SERIES SAMPLES

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

WATER SAMPLES FOR 8021/8260 SERIES

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

SOIL SAMPLES FOR 8021/8260 SERIES

MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) % RECOVERY BETWEEN 65-135%	n/a
MATRIX SPIKE / MATRIX SPIKE DUPLICATE(S) RPD LESS THAN 30%	n/a
SURROGATE SPIKES % RECOVERY BETWEEN 70-125%	n/a
BLANK SPIKE / BLANK SPIKE DUPLICATES % RECOVERY BETWEEN 70-130%	n/a

FIELD QC SAMPLES

SAMPLE	COLLECTED	DETECTIONS > REPDL
QCTB SAMPLES	N	0
QCEB SAMPLES	N	0
QCAB SAMPLES	N	0

Logged in as CAMBRIA-EM (AUTH_RP)

CONTACT SITE ADMINISTRATOR.

Electronic Submittal Information

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:	**3rd Qtr 2004 GW Depth Data for 1432 Harrison Street, Oakland**
Submittal Date/Time:	**10/20/2004 3:48:41 PM**
Confirmation Number:	**1104278385**

Back to Main Menu

Logged in as CAMBRIA-EM (AUTH_RP) CONTACT SITE ADMINISTRATOR.