Re 196 JW

CAMBRIA

July 8, 2005

Mr. Barney Chan
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, California 94502

RE: Groundwater Monitoring Report - Second Quarter 2005
Chiu Property
800 Franklin Street
Oakland, California 94607

Dear Mr. Chan:

On behalf of Mr. Tommy Chiu, Cambria Environmental Technology, Inc (Cambria) is submitting the *Groundwater Monitoring Report – Second Quarter 2005*. Presented in the report are the second quarter 2005 activities and results, and the anticipated third quarter 2005 activities.

If you have any questions or comments regarding this report, please call me at (510) 420-3314.

Sincerely,
Cambria Environmental Technology, Inc.

Matthew A. Meyers
Project Geologist

Enclosures: *Groundwater Monitoring Report – Second Quarter 2005*

cc: Ms. Anny Chiu, P.O. Box 28194, Oakland, California 94606
Ms. Lu Anne Rolland, UST Cleanup Fund, 1001 "I" Street, Sacramento, California 95812

Cambria Environmental Technology, Inc.

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

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GROUNDWATER MONITORING REPORT – SECOND QUARTER 2005

Chiu Property
800 Franklin Street
Oakland, California
Cambria Project No. 589-1000

July 8, 2005

Prepared for:

Mr. Tommy Chiu
P.O. Box 28194
Oakland, California 94606

Prepared by:

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

Written by:

PROFESSIONAL GEOLOGIST
BRANDON S. WILKEN
No. 7564
STATE OF CALIFORNIA

Matthew A. Meyers
Project Geologist

Brandon S. Wilken, P.G.
Project Geologist

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GROUNDWATER MONITORING REPORT - SECOND QUARTER 2005

Chiu Property
800 Franklin Street
Oakland, California
Cambria Project No. 589-1000

July 8, 2005

INTRODUCTION

This report describes the second quarter 2005 groundwater monitoring activities performed at 800 Franklin Street, Oakland, California (Figure 1). This groundwater monitoring event was conducted at the request of the Alameda County Department of Environmental Health (ACDEH). This report presents a summary of second quarter 2005 field activities, groundwater flow conditions, groundwater analytical data, and a presentation of activities anticipated for the third quarter 2005.

SECOND QUARTER 2005 ACTIVITIES

Monitoring Activities

On June 16, 2005, Muskan Environmental Sampling (MES) conducted quarterly groundwater monitoring activities at the site. MES measured groundwater levels and collected groundwater samples from monitoring wells MW-1, MW-2, and MW-4 through MW-6 (Figure 2). Well MW-3 is inaccessible and therefore can not be monitored. Copies of the field data sheets are included as Appendix A.

Water Level Measurements: Depth to groundwater measurements were recorded to the nearest 0.01-foot, relative to a previously established reference elevation. Measurements were collected using an electric, conductance-actuated well sounder. The groundwater elevation and depth data are presented in Table 1.

Groundwater Sampling: MES collected groundwater samples from wells MW-1, MW-2, and MW-4 through MW-6. Field activities associated with groundwater sampling included well purging, measuring groundwater parameters, sample collection, and equipment decontamination. See the field data sheets in Appendix A.

Prior to sampling, the wells were purged to remove standing water in the well casings and promote inflow of representative groundwater from the surrounding formation. The wells were purged by

repeated bailing using a new, pre-cleaned disposable bailer. Field measurements of the pH, specific conductance, and temperature of the purged groundwater were measured initially and after the extraction of each successive casing volume or at regular volume intervals. Casing volumes were calculated based on the well diameter and the height of the water column in the well casing. Typically, well purging continued until three or more casing volumes had been removed from the well and consecutive pH, specific conductance, and temperature measurements were within 10 percent. Field water quality measurements, purge volumes, and sample collection data were recorded on field sampling data forms (Appendix A).

Groundwater samples were collected from each of the wells using new, pre-cleaned disposable bailers. The samples were decanted from the bailers into 40-milliliter (mL) glass volatile organic analysis (VOA) vials supplied by McCampbell Analytical, Inc. (McCampbell) of Pacheco, California. Immediately after collection, the sample VOA vials were labeled and placed on water-based ice in a cooler. Chain-of-custody procedures were followed at all times from sample collection to transfer to McCampbell (Appendix B).

Equipment Decontamination: To minimize the potential for cross-contamination, the groundwater monitoring equipment was decontaminated prior to being deployed in the first monitoring well and between successive wells. The probe of the electric well sounder used for water level measurements was rinsed thoroughly with distilled water prior to first use and between subsequent water level measurements. The disposable bailers were discarded after use at each well.

Sample Analysis: The groundwater samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg) by modified United States Environmental Protection Agency (EPA) Method SW8015C. Samples were also analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) and methyl tertiary-butyl ether (MTBE) by EPA Method SW8021B. The analyses were performed by McCampbell. The laboratory analytical report is included in Appendix B. Groundwater analytical results are presented on Figure 2 and summarized in Table 1.

Monitoring Results

Groundwater Flow Direction and Gradient: Depth-to-water measurements collected on June 16, 2005, ranged from 20.38 to 21.81 feet below top of casing. Groundwater elevations were calculated by subtracting the depth-to-water measurements from the surveyed top of casing elevations. The groundwater elevations were plotted on a site plan and contoured. Based on depth-to-water data collected during the site visit, groundwater beneath the site flows towards the northwest at a gradient

of 0.010 feet/foot. Depth-to-water and groundwater elevation data for the site are summarized in Table 1 and presented on Figure 2.

Groundwater Analytical Results: Hydrocarbons were detected in three (MW-1, MW-2, and MW-6) of the five wells sampled during the second quarter 2005 event. TPHg and BTEX were detected in the samples collected from wells MW-2 and MW-6. The maximum TPHg and BTEX concentrations were detected in well MW-2 at 43,000 micrograms per liter (µg/L), 1,500 µg/L, 3,400 µg/L, 1,200 µg/L, and 5,400 µg/L, respectively. The TPHg and BTEX concentrations detected in well MW-6 were 1,300 µg/L, 58 µg/L, 8.3 µg/L, 6.1 µg/L and 4.0 µg/L, respectively. The only analyte detected in well MW-1 was benzene at 0.64 µg/L. MTBE was not detected in any of the wells (Table 1, Appendix B).

GEOTRACKER SUBMITTALS

Cambria received approval from the California State Water Resources Control Board (SWRCB) to upload relevant data to the GeoTracker database on behalf of Mr. Tommy Chiu. Cambria has uploaded second quarter 2005 groundwater depth data, analytical results, and this report to the State's GeoTracker database. GeoTracker delivery confirmation documentation is included in Appendix C.

ANTICIPATED THIRD QUARTER 2005 ACTIVITIES

Monitoring Activities

Cambria will gauge water levels and collect groundwater samples from wells MW-1, MW-2, and MW-4 through MW-6. Groundwater samples will be analyzed for TPHg by modified EPA Method SW8015C, and BTEX and MTBE by EPA Method SW8021B. Cambria will prepare a groundwater monitoring report summarizing the monitoring activities and results.

Meeting Request

Cambria would like to request a meeting with the ACDEH to develop an approach that addresses the agency concerns relating to the site. Specifically, the discussion would address groundwater monitoring frequency, the status of well MW-3, and potential future investigation and remediation activities.

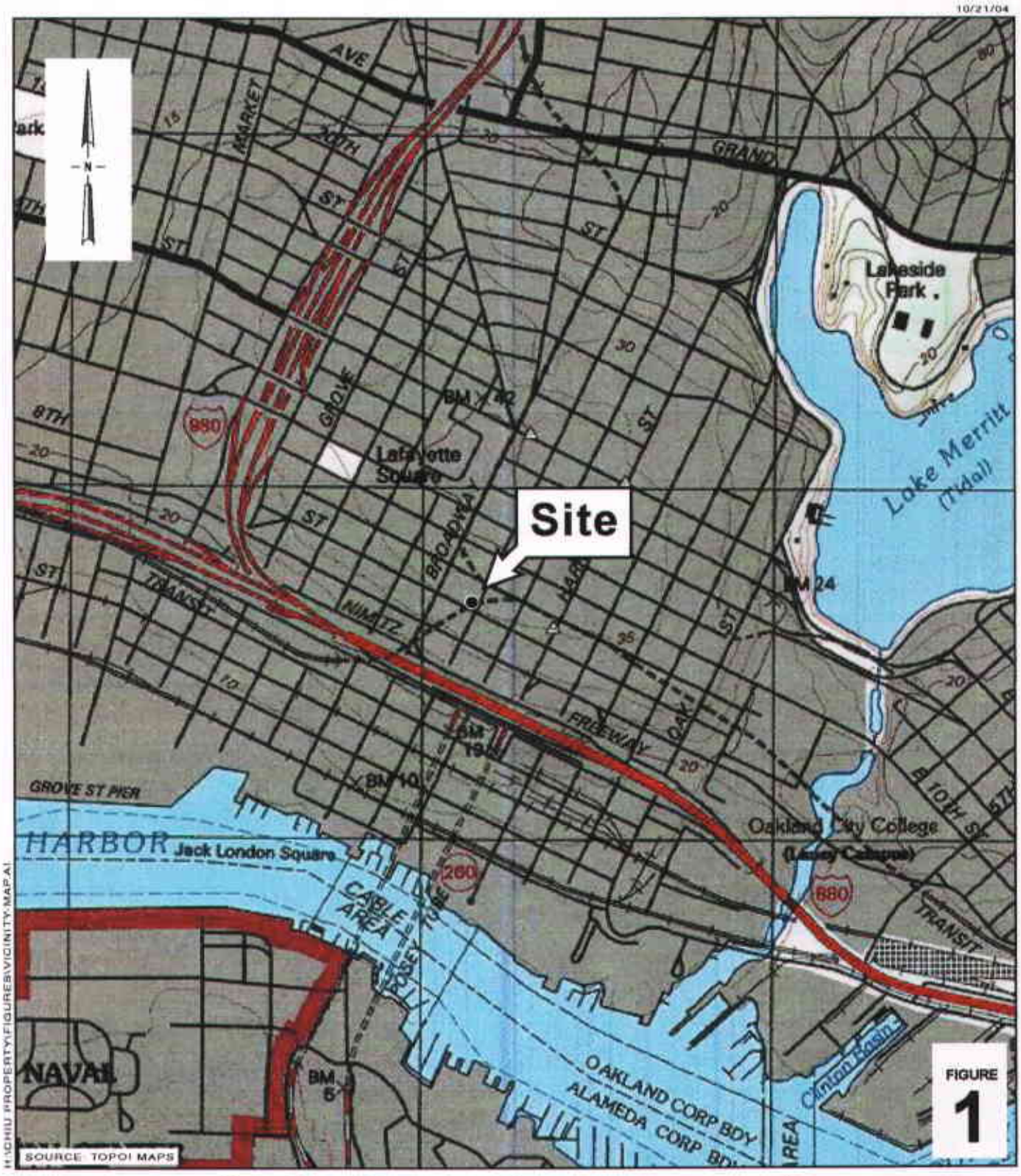
ATTACHMENTS

Figure 1 – Vicinity Map
Figure 2 – Groundwater Elevation Contour and Hydrocarbon Concentration Map

Table 1 – Groundwater Analytical and Elevation Data

Appendix A – Groundwater Monitoring Field Data Sheets
Appendix B – Laboratory Analytical Report
Appendix C – GeoTracker Electronic Delivery Confirmations

H:\Chiu - 800 Franklin, Oakland\2q05\2q05 QMR.doc



Chiu Property

800 Franklin Street

Oakland, California

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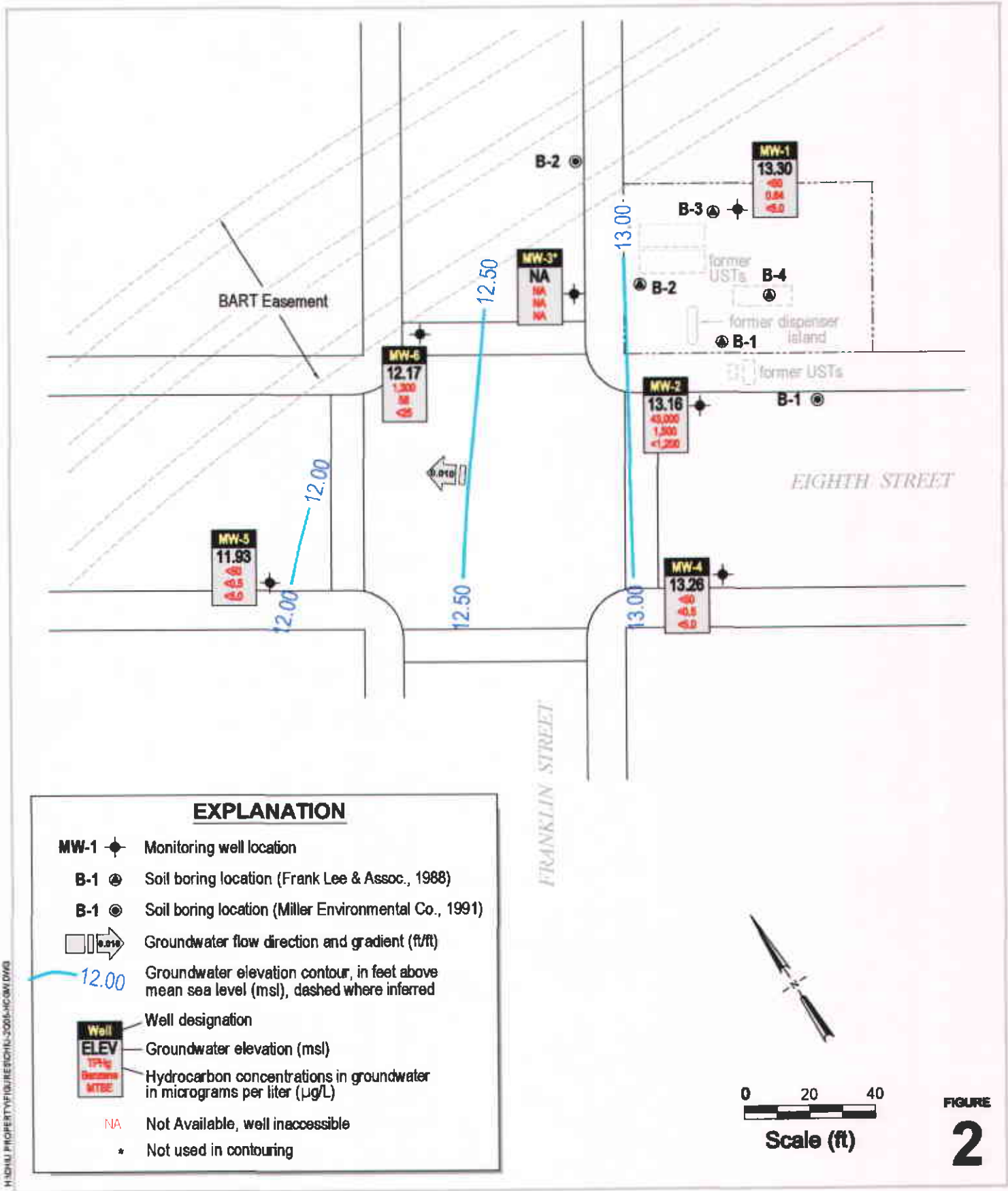
Vicinity Map



EXPLANATION

- MW-1 — Monitoring well location
- B-1 — Soil boring location (Frank Lee & Assoc., 1988)
- B-1 — Soil boring location (Miller Environmental Co., 1991)
- 0.010 — Groundwater flow direction and gradient (ft/ft)
- 12.00 — Groundwater elevation contour, in feet above mean sea level (msl), dashed where inferred
- Well / ELEV / TPHg / Benzene / MTBE — Well designation; Groundwater elevation (msl); Hydrocarbon concentrations in groundwater in micrograms per liter (µg/L)
- NA — Not Available, well inaccessible
- * — Not used in contouring

0 20 40

Scale (ft)

FIGURE 2

H:\CHIU PROPERTY\FIGURES\CHIU-2005-HCMW.DWG

Chiu Property

800 Franklin Street

Oakland, California

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Groundwater Elevation Contour and Hydrocarbon Concentration Map

June 16, 2005

CAMBRIA

Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - Chiu Property, 800 Franklin Street, Oakland, California

Well ID *TOC Elevation* (ft amsl)	Date Sampled	Depth to Water (ft below TOC)	Groundwater Elevation (feet amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
				← µg/L →					
MW-1	8/10/2004	23.35	10.63	<50	<0.5	<0.5	<0.5	<0.5	<5.0
33.98	9/28/2004[+]	--	--	--	--	--	--	--	--
	12/21/2004	22.93	11.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/11/2005[+]	--	--	--	--	--	--	--	--
	6/16/2005	**20.68**	**13.30**	**<50**	**0.64**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-2	8/10/2004	21.03	12.63	47,000 (a)	4,200	4,900	1,400	6,000	<500
33.66	9/28/2004	22.95	10.71	--	--	--	--	--	--
	12/21/2004	20.91	12.75	13,000 (a)	500	310	34	1600	<100
	3/11/2005	11.35	22.31	32,000 (a)	970	2,400	890	4,200	<1,000
	6/16/2005	**20.50**	**13.16**	**43,000 (a,i)**	**1,500**	**3,400**	**1,200**	**5,400**	**<1,200**
MW-3	9/28/2004			*Well is damaged. Unable to measure depth to water or collect sample.*					
34.23	12/21/2004			*Well is damaged. Unable to measure depth to water or collect sample.*					
	3/11/2005			*Well is damaged. Unable to measure depth to water or collect sample.*					
	6/16/2005			*Well is damaged. Unable to measure depth to water or collect sample.*					
MW-4	9/28/2004	22.72	10.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0
33.64	12/21/2004	20.65	12.99	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/11/2005	20.20	13.44	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/16/2005	**20.38**	**13.26**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-5	9/28/2004	23.70	9.86	<50	<0.5	<0.5	<0.5	1.5	<5.0
33.56	12/21/2004	21.40	12.16	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/11/2005	21.40	12.16	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	6/16/2005	**21.63**	**11.93**	**<50 (i)**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<5.0**
MW-6	9/28/2004	24.00	9.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
33.98	12/21/2004	21.61	12.37	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/11/2005	21.60	12.38	340 (a)	1.9	2.6	0.68	0.61	<5.0
	6/16/2005	**21.81**	**12.17**	**1,300 (a)**	**58**	**8.3**	**6.1**	**4.0**	**<25**

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Table 1. Groundwater Analytical and Elevation Data: Petroleum Hydrocarbons - Chiu Property, 800 Franklin Street, Oakland, California

Well ID *TOC Elevation* (ft amsl)	Date Sampled	Depth to Water (ft below TOC)	Groundwater Elevation (feet amsl)	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
				← µg/L →					

Abbreviations:

TOC = Top of casing

ft = Measured in feet

amsl = Above mean sea level

µg/L = Micrograms per liter

TPHg = Total petroleum hydrocarbons as gasoline by EPA Method SW8015C.

Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B.

MTBE = Methyl tertiary-butyl ether by EPA Method SW8021B.

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

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

+ = Unable to access well due to denial by current tenant or tenant business closed.

Notes:

(a) = unmodified or weakly modified gasoline is significant

(i) = liquid sample that contains ~1 vol. % sediment

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL GAUGING SHEET

Client: Cambria Environmental Technology Inc.

Site Address: 800 Franklin Street Oakland, CA

Date: 6/16/2005 **Signature:**

Well ID	Time	Depth to SPH	Depth to Water	SPH Thickness	Depth to Bottom	Comments
MW-1	11:05		20.68		33.30	
MW-2	11:10		20.50		34.33	
MW-3		Well filled with debris. Inaccessable				
MW-4	10:50		20.38		33.65	
MW-5	10:55		21.63		34.58	
MW-6	11:00		21.81		32.84	

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	6/16/2005
Client:	Cambria Environmental Technology Inc.
Site Address:	800 Franklin Street Oakland, CA
Well ID:	MW-1
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	33.30	**Fe=**	**mg/L**
Depth to Water:	20.68	**ORP=**	**mV**
Water Column Height:	12.62	**DO=**	**mg/L**
Gallons/ft:	0.16		
1 Casing Volume (gal):	2.02	**COMMENTS:**	
3 Casing Volumes (gal):	6.06	Turbid	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
1:25	2.0	24.6	7.09	840
1:30	4.0	24.1	7.13	863
1:35	6.1	24.7	7.10	825

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-1	6/16/2005	1:40	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8021
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	6/16/2005
Client:	Cambria Environmental Technology Inc.
Site Address:	800 Franklin Street Oakland, CA
Well ID:	MW-2
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	34.33
Depth to Water:	20.50
Water Column Height:	13.83
Gallons/ft:	0.16
1 Casing Volume (gal):	2.21
3 Casing Volumes (gal):	6.64

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

COMMENTS:
Turbid, odor, sheen

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
1:00	2.2	24.1	6.77	872
1:05	4.4	23.9	6.80	815
1:10	6.6	23.7	6.78	821

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-2	6/16/2005	1:15	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8021
				Signature:		

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ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	6/16/2005
Client:	Cambria Environmental Technology Inc.
Site Address:	800 Franklin Street Oakland, CA
Well ID:	MW-4
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	33.65
Depth to Water:	20.38
Water Column Height:	13.27
Gallons/ft:	0.16
1 Casing Volume (gal):	2.12
3 Casing Volumes (gal):	6.37

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

COMMENTS:
Turbid

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
11:50	2.1	23.9	7.11	890
11:55	4.2	23.7	7.19	824
12:00	6.4	23.7	7.15	829

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-4	6/16/2005	12:05	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8021

Signature:

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ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	6/16/2005
Client:	Cambria Environmental Technology Inc.
Site Address:	800 Franklin Street Oakland, CA
Well ID:	MW-5
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	34.58
Depth to Water:	21.63
Water Column Height:	12.95
Gallons/ft:	0.16
1 Casing Volume (gal):	2.07
3 Casing Volumes (gal):	6.22

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

COMMENTS:
Turbid

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
12:20	2.1	23.8	7.14	451
12:25	4.1	23.6	7.16	488
12:30	6.2	23.7	7.13	484

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-5	6/16/2005	12:35	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8021
				Signature:		

MUSKAN
ENVIRONMENTAL
SAMPLING

WELL SAMPLING FORM

Date:	6/16/2005
Client:	Cambria Environmental Technology Inc.
Site Address:	800 Franklin Street Oakland, CA
Well ID:	MW-6
Well Diameter:	2"
Purging Device:	Disposable Bailer
Sampling Method:	Disposable Bailer

Total Well Depth:	32.84	**Fe=**	**mg/L**
Depth to Water:	21.81	**ORP=**	**mV**
Water Column Height:	11.03	**DO=**	**mg/L**
Gallons/ft:	0.16		
1 Casing Volume (gal):	1.76	**COMMENTS:**	
3 Casing Volumes (gal):	5.29	Turbid	

TIME:	CASING VOLUME (gal)	TEMP (Celsius)	pH	COND. (µS)
2:00	1.8	23.6	6.75	724
2:05	3.5	23.4	6.79	762
2:10	5.3	23.4	6.73	720

Sample ID:	Date:	Time	Container Type	Preservative	Analytes	Method
MW-6	6/16/2005	2:15	Voa	HCl, ICE	TPHg, BTEX, MTBE	8015, 8021
				Signature:		

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: #589-1000; Chiu	Date Sampled: 06/16/05
5900 Hollis St, Suite A		Date Received: 06/16/05
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Reported: 06/24/05
	Client P.O.:	Date Completed: 06/24/05

WorkOrder: 0506318

June 24, 2005

Dear Matt:

Enclosed are:

1). the results of **5** analyzed samples from your **#589-1000; Chiu 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: #589-1000; Chiu	Date Sampled: 06/16/05
5900 Hollis St, Suite A		Date Received: 06/16/05
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 06/18/05-06/22/05
	Client P.O.:	Date Analyzed: 06/18/05-06/22/05

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

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0506318

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-1	W	ND	ND	0.64	ND	ND	ND	1	100
002A	MW-2	W	43,000,a,i	ND<1200	1500	3400	1200	5400	100	104
003A	MW-4	W	ND	ND	ND	ND	ND	ND	1	98
004A	MW-5	W	ND,i	ND	ND	ND	ND	ND	1	97
005A	MW-6	W	1300,a	ND<25	58	8.3	6.1	4.0	5	107

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and 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

QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0506318

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 16688** **Spiked Sample ID: 0506315-004A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex)£	ND	60	99.4	102	2.24	101	101	0	70 - 130	70 - 130
MTBE	ND	10	110	107	3.13	113	107	4.87	70 - 130	70 - 130
Benzene	ND	10	104	102	2.20	103	103	0	70 - 130	70 - 130
Toluene	ND	10	105	103	1.98	105	105	0	70 - 130	70 - 130
Ethylbenzene	ND	10	107	104	2.07	106	105	0.373	70 - 130	70 - 130
Xylenes	ND	30	110	107	3.08	110	107	3.08	70 - 130	70 - 130
%SS:	96	10	95	96	0.469	95	96	0.297	70 - 130	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

BATCH 16688 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506318-001A	6/16/05	6/21/05	6/21/05 6:56 AM	0506318-002A	6/16/05 1:15 PM	6/18/05	6/18/05 7:23 AM
0506318-003A	6/16/05 12:05 PM	6/18/05	6/18/05 1:27 PM				

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 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

W.O. Sample Matrix: Water QC Matrix: Water WorkOrder: 0506318

EPA Method: SW8021B/8015Cm **Extraction: SW5030B** **BatchID: 16697** **Spiked Sample ID: 0506349-003A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) £	ND	60	102	93.4	9.06	101	104	3.22	70 - 130	70 - 130
MTBE	ND	10	110	108	1.55	113	112	1.32	70 - 130	70 - 130
Benzene	ND	10	106	94.5	11.5	108	103	5.23	70 - 130	70 - 130
Toluene	ND	10	108	96.9	10.6	109	104	4.63	70 - 130	70 - 130
Ethylbenzene	ND	10	110	108	1.68	110	106	3.56	70 - 130	70 - 130
Xylenes	ND	30	110	100	9.52	110	110	0	70 - 130	70 - 130
%SS:	95	10	96	96	0	98	95	2.92	70 - 130	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

BATCH 16697 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0506318-004A	6/16/05 12:35 PM	6/18/05	6/18/05 2:00 PM	0506318-005A	6/16/05 2:15 PM	6/22/05	6/22/05 10:38 AM

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

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

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

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

0506318

McCAMPBELL ANALYTICAL, INC.

1156 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☐ 48 HR ☐ 72 HR ☒ 5 DA

EDF Required? (Yes) No

Report To: Matt Meyers Bill To: Cambria Environmental Technology
Company: Cambria Environmental Technology
5900 Hollis St. Ste A
Emeryville, CA 94608 E-Mail: mmeyers@cambrienv.com
Tele: 510-420-3314 Fax: (510) 420-9170
Project #: 589-1000 Project Name: Chiu
Project Location: 800
Sampler Signature: Muskan Environmental Sampling

	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	MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / Motor Oil (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	Fuel Additives (MTBE, ETBE, TAME, DIPE, TBA, 1,2 – DCA, 1,2 – EDB, ethanol) by 8260B	TPHg by 8015 M	VOCs and fuel additives by 8260	TPHg / BTEX & MTBE by (8015 / 8020)	Other	Comments
+	MW-1		6/6/05	1:40	3	voa	x					x	x			x																	
+1	MW-2		"	1:15	"	"	"					"	"			"																	
+	MW-4		"	12:05	"	"	"					"	"			"																	
+1	MW-5		"	12:35	"	"	"					"	"			"																	
+	MW-6		"	2:15	*	*	*					*	*			*																	
✓	TB		"		1	*	*					*	*																			Hold

Relinquished By:	Date:	Time:	Received By:
	6/6/05	3:40	
Relinquished By:	Date:	Time:	Received By:

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: 0506318 **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: #589-1000; Chiu
PO:

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

Requested TAT: 5 days

Date Received: 06/16/2005
Date Printed: 06/17/2005

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
0506318-001	MW-1	Water	6/16/05	☐	A	A													
0506318-002	MW-2	Water	6/16/05 1:15:00 PM	☐	A														
0506318-003	MW-4	Water	6/16/05 12:05:00	☐	A														
0506318-004	MW-5	Water	6/16/05 12:35:00	☐	A														
0506318-005	MW-6	Water	6/16/05 2:15:00 PM	☐	A														

Test Legend:

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

Prepared by: Maria Venegas

Comments:

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

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Confirmation Number: 7811875343
Date/Time of Submittal: 7/7/2005 9:45:19 AM
Facility Global ID: T0600100050
Facility Name: BILL LOUIE'S AUTO SERVICE
Submittal Title: 2nd Qtr 2005 GW Anaytical Data
Submittal Type: GW Monitoring Report

Click here to view the detections report for this upload.

BILL LOUIE'S AUTO SERVICE
800 FRANKLIN ST
OAKLAND, CA 94607

Regional Board - Case #: 01-0056
SAN FRANCISCO BAY RWQCB (REGION 2) - **(BG)**
Local Agency (lead agency) - Case #: 37
ALAMEDA COUNTY LOP - **(AG)**

CONF #	TITLE	QUARTER
7811875343	2nd Qtr 2005 GW Anaytical Data	Q2 2005

SUBMITTED BY	SUBMIT DATE	STATUS
Matt Meyers	7/7/2005	PENDING REVIEW

SAMPLE DETECTIONS REPORT

# FIELD POINTS SAMPLED	5
# FIELD POINTS WITH DETECTIONS	3
# FIELD POINTS WITH WATER SAMPLE DETECTIONS ABOVE MCL	2
SAMPLE MATRIX TYPES	WATER

METHOD QA/QC REPORT

METHODS USED	SW8021F
TESTED FOR REQUIRED ANALYTES?	N
MISSING PARAMETERS NOT TESTED:	
- SW8021F REQUIRES ETBE TO BE TESTED	
- SW8021F REQUIRES TAME TO BE TESTED	
- SW8021F REQUIRES DIPE TO BE TESTED	
- SW8021F REQUIRES TBA TO BE TESTED	
- SW8021F REQUIRES DCA12 TO BE TESTED	
- SW8021F REQUIRES EDB TO BE TESTED	
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%	Y
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

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Submittal Title:	**2nd Qtr 2005 Groundwater Depth Data**
Submittal Date/Time:	**7/7/2005 9:43:51 AM**
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UPLOADING A GEO_REPORT FILE

YOUR DOCUMENT UPLOAD WAS SUCCESSFUL!

Facility Name:	**BILL LOUIE'S AUTO SERVICE**
Global ID:	**T0600100050**
Title:	**Groundwater Monitoring Report - Second Quarter 2005**
Document Type:	**Monitoring Report - Quarterly**
Submittal Type:	**GEO_REPORT**
Submittal Date/Time:	**7/8/2005 9:19:39 AM**
Confirmation Number:	2777143180

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