



ENVIRONMENTAL
PROTECTION

515

April 15, 1997

97 JUL 15 AM 9: 04

Kevin Tinsley
Alameda County Department of
Environmental Health
UST Local Oversight Program
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Re: **First Quarter 1997 Monitoring Report**
Former Exxon Service Station
3055 36th Avenue
Oakland, California
Cambria Project #13-103-107

Dear Mr. Tinsley:

On behalf of Mr. Lynn Worthington of Golden Empire Properties, Cambria Environmental Technology, Inc. (Cambria) is presenting the first quarter 1997 ground water monitoring results for the site referenced above. Presented below are the first quarter 1997 activities, the anticipated second quarter 1997 activities and a discussion of the analytic results.

FIRST QUARTER 1997 ACTIVITIES

Quarterly Ground Water Sampling: On March 20, 1997, Cambria collected ground water samples from wells MW-1, MW-2, MW-3 and MW-4. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene and xylenes (BTEX), and methyl tert-butyl ether (MTBE). Cambria also gauged the site wells, measured dissolved oxygen (DO) concentrations and checked for liquid-phase hydrocarbons. No liquid-phase hydrocarbons were detected.

Subsurface Investigation: As requested by the Alameda County Department of Environmental Health (ACDEH) in the August 26, 1996 letter to Mr. Worthington, Cambria installed monitoring well MW-4 on February 26, 1997 on the northwest corner of the property to define the extent of hydrocarbons in ground water at the site. Soil samples were also collected during the well installation and analyzed for key Risk-Based Corrective Action (RBCA) parameters. Details of the well installation and RBCA study will be presented under separate cover.

CAMBRIA
ENVIRONMENTAL
TECHNOLOGY, INC.
1144 65TH STREET,
SUITE B
OAKLAND,
CA 94608
PH: (510) 420-0700
FAX: (510) 420-9170

ANTICIPATED SECOND QUARTER 1997 ACTIVITIES

Quarterly Ground Water Sampling: Cambria will gauge the site wells, measure DO concentrations, check the wells for liquid-phase hydrocarbons, and collect water samples from the wells. Cambria will tabulate the data and prepare a quarterly monitoring report.

RBCA Report: As requested in the August 26, 1996 letter, Cambria will prepare a RBCA study report during the second quarter of 1997.

DISCUSSION

Elevated hydrocarbons were detected in newly installed well MW-4, located southwest of the former underground gasoline tanks (Table 1). The ground water flow direction is consistent with a northwest flow direction (Figure 1).

Please call if you have any questions or comments.

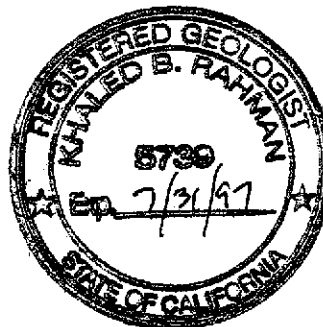
Sincerely,
Cambria Environmental Technology, Inc.



Maureen Feineman
Staff Geologist



Khaled B. Rahman, R.G., C.H.G.
Senior Geologist



Attachments: A - Analytic Report for Ground Water Sampling

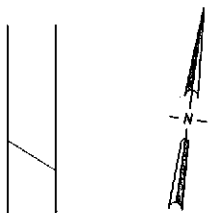
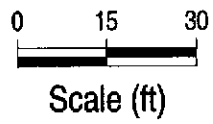
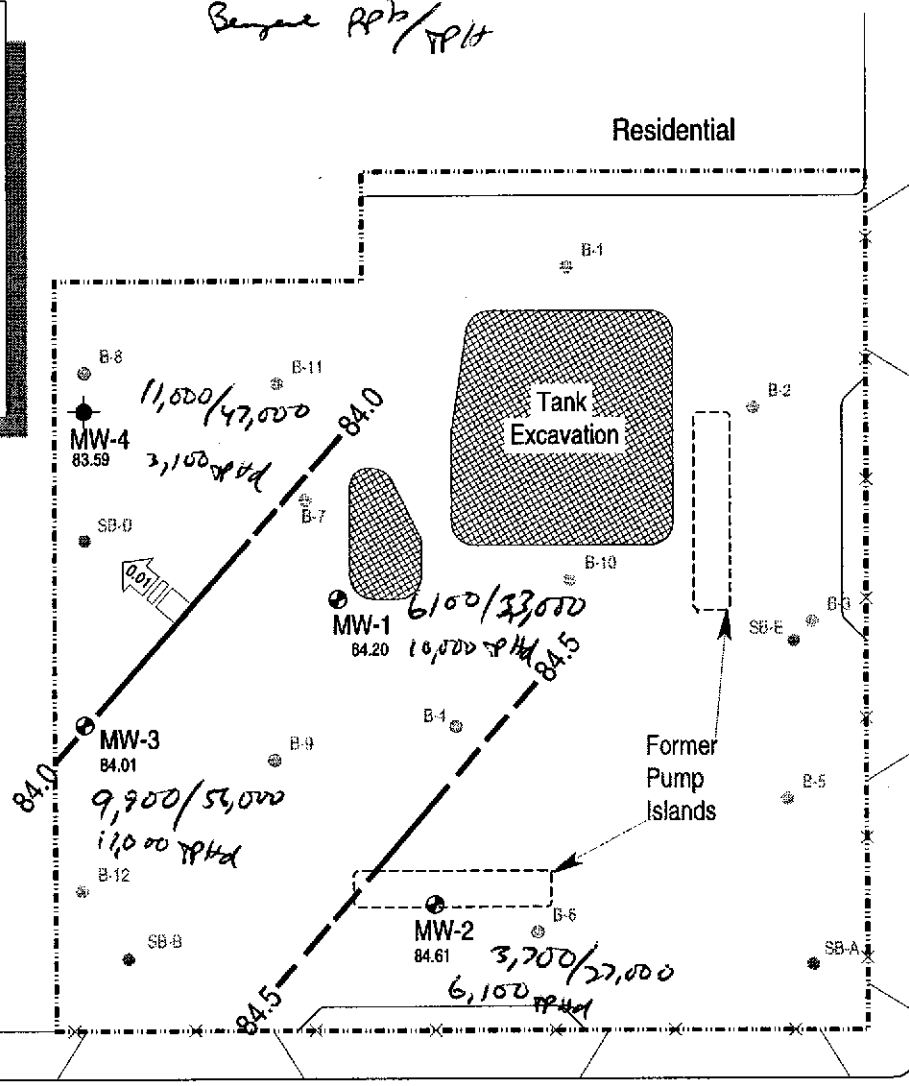
cc: Mr. Lynn Worthington, Gold Empire Properties, Inc., 5942 MacArthur Boulevard, Suite B,
Oakland, CA 94605

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EXPLANATION

- MW-3 Previously Installed Monitoring Well
- SB-B/B-1 Previous Soil Boring
- MW-4 Cambria Monitoring Well (Feb 97)
- xx.xx Ground Water Elevation, Feet Relative To Onsite Benchmark
- Approx. GW Elevation Contour
- Ground Water Flow Direction/ Gradient (ft/ft)
- ▨ Former Underground Storage Tank Excavation

Benzene RPB/TPH



Residential

Residential

School Street

Former Texaco Station

35th Avenue

CAMBRIA
Environmental Technology, Inc.

Former Exxon Service Station
3055 35th Avenue
Oakland, California

Ground Water Elevation
Contours
March 20, 1997

FIGURE
1

Table 1. Ground Water Elevation and Analytic Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	GW	LPH	GW	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO
(quarters sampled)		Depth (ft)	(ft)	Elev. (ft)	(concentrations in parts per billion)								(mg/l)
MW-1	5/25/94	16.79	Sheen	84.06	120,000	25,000	<50,000	22,000	17,000	2,800	16,000	---	---
(all)	7/19/94	20.77	---	80.08	---	---	---	---	---	---	---	---	---
TOC = 100.85	8/18/94	21.04	Sheen	79.81	925,000	---	---	16,500	6,200	1,000	9,400	---	---
<i>TPHg or Benzene not really decreasing</i>	11/11/94	15.80	---	85.05	57,000	---	---	14,000	4,400	1,400	6,400	---	---
	2/27/95	15.53	---	85.32	45,000	---	---	2,900	2,500	760	4,100	---	---
	5/23/95	15.29	---	85.56	22,000	---	---	9,900	990	790	2,000	---	---
	8/22/95	20.90	---	79.95	23,000	---	---	6,900	340	1,200	1,900	---	---
	11/29/95	22.19	---	78.66	37,000	---	---	9,900	530	1,600	2,900	---	---
	2/21/96	11.69	---	89.16	33,000	4,300	---	10,000	480	1,000	1,800	3,300	---
	5/21/96	14.62	---	86.23	36,000	8,500	---	8,500	1,400	1,300	2,800	1,900	---
	8/22/96	22.30	---	78.55	41,000	6,200	---	8,600	1,300	1,500	2,900	<200	8.0
	11/27/96	17.24	Sheen	83.61	38,000	6,100	---	9,600	950	1,600	3,100	<400	5.6
	3/20/97	16.65	---	84.20	38,000	6,100	---	6,100	560	970	2,200	<400	8.5
MW-2	5/25/94	15.65	---	84.35	61,000	6,900	<5,000	9,900	7,400	960	4,600	---	---
(all)	7/19/94	19.81	---	80.19	---	---	---	---	---	---	---	---	---
TOC = 100.00	8/18/94	20.37	---	79.63	88,000	---	---	10,750	10,500	1,850	9,600	---	---
<i>TPHg & Benzene only slight decrease</i>	11/11/94	15.52	---	84.48	54,000	---	---	5,900	6,700	1,300	7,500	---	---
	2/27/95	14.46	Sheen	85.54	44,000	---	---	5,100	5,300	930	6,400	---	---
	5/23/95	14.17	---	85.83	33,000	---	---	8,200	5,600	900	6,600	---	---
	8/22/95	19.80	---	80.20	38,000	---	---	6,400	5,000	1,100	5,600	---	---
	11/29/95	21.05	---	78.95	46,000	---	---	7,100	5,300	1,300	6,000	---	---
	2/21/96	10.53	---	89.47	59,000	---	---	8,000	6,000	1,800	8,900	4,500	---
	5/21/96	13.47	---	86.53	51,000	3,400	---	8,200	5,200	1,300	6,600	2,400	---
	8/22/96	19.12	---	80.88	37,000	5,700	---	5,100	3,500	960	4,500	<200	3.0
	11/27/96	16.61	Sheen	83.39	54,000	10,000	---	9,800	7,000	1,800	7,900	<2,000	3.1
	3/20/97	15.39	---	84.61	27,000	6,100	---	3,700	2,300	580	2,800	<400	8.1

Table 1. Ground Water Elevation and Analytic Data - Former Exxon Service Station, 3055 35th Avenue, Oakland, California

Well ID	Date	GW	LPH	GW	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	DO
(quarters sampled)		Depth (ft)	(ft)	Elev. (ft)	(concentrations in parts per billion)								(mg/l)
MW-3	5/25/94	13.93	Sheen	82.94	56,000	14,000	<50,000	14,000	14,000	1,300	11,000	---	---
(all)	7/19/94	17.04	---	79.83	---	---	---	---	---	---	---	---	---
TOC = 96.87	8/18/94	17.75	---	79.12	116,000	---	---	28,300	26,000	2,400	15,000	---	---
<i>VPA of Benzene only & light diesel</i>	11/11/94	17.80	---	79.07	89,000	---	---	1,600	1,900	1,900	14,000	---	---
	2/27/95	11.86	Sheen	85.01	250,000	---	---	22,000	26,000	7,800	21,000	---	---
	5/23/95	11.60	Sheen	85.27	310,000	---	---	18,000	17,000	4,500	2,800	---	---
	8/22/95	17.10	---	79.77	74,000	---	---	14,000	13,000	1,900	11,000	---	---
	11/29/95	16.34	---	80.53	220,000	---	---	25,000	25,000	3,500	19,000	---	---
	2/21/96	7.92	---	88.95	60,000	---	---	10,000	7,800	1,500	8,800	3,400	---
	5/21/96	10.86	Sheen	86.01	69,000	13,000	---	17,000	9,400	1,700	9,400	2,600	---
	8/22/96	16.50	---	80.37	94,000	16,000	---	17,000	15,000	2,100	12,000	330	2.0
	11/27/96	13.47	Sheen	83.40	82,000	24,000	---	14,000	13,000	2,400	13,000	<1,000	2.4
		3/20/97	12.86	---	84.01	56,000	11,000	---	9,900	6,900	1,300	8,000	3,500
MW-4	3/20/97	13.75	---	83.59	47,000	3,100	---	11,000	4,500	1,100	5,200	3,400	8.4
(all)													
TOC = 97.34													

Abbreviations:

TOC = Top of casing elevation with respect to an onsite benchmark
 GW = Ground water
 LPH = Liquid-phase hydrocarbons
 TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
 TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
 TPHmo = Total petroleum hydrocarbons as motor oil by modified EPA Method 8015
 Benzene, Ethylbenzene, Toluene, and Xylenes by EPA Method 8020
 MTBE = Methyl Tertiary-Butyl Ether by EPA Method 8020
 DO = Dissolved oxygen
 parts per billion equivalent to micrograms per liter
 mg/l = milligrams per liter equivalent to parts per million

Notes:

TOC Elevation of Well MW-4 surveyed relative to an arbitrary site datum by David Hop
 Licensed Surveyor on April 19, 1997

ATTACHMENT A

Analytic Report for Ground Water Sampling

LEGEND

Analytical Services

3636 N. Laughlin Road, Suite 110 Santa Rosa, California 95403 707.541.2313 707.541.2333 fax

Adam Sevi
Cambria Env. Technology
1144 65th Street
Suite C
Oakland, CA 94608


Date: 04/04/1997
LEGEND Client Acct. No: 98900
LEGEND Job No: 97.00596
Received: 03/22/1997

Client Reference Information

13-105-106/Worthington

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Result Flags" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2313.

Submitted by:

 **JLR**

Jennifer L. Roseberry
Quality Assurance Officer

Enclosure(s)

Client Name: Cambria Env. Technology
 Client Acct: 98900
 LEGEND Job No: 97.00596

Date: 04/04/1997
 ELAP Cert: 2193
 Page: 2

Ref: 13-105-106/Worthington

SAMPLE DESCRIPTION: MW-1
 Date Taken: 03/20/1997
 Time Taken:
 LEGEND Sample No: 273847

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
TPH (Gas/BTEX, Liquid)								
5030/M8015	--						03/25/1997	3816
DILUTION FACTOR*	200						03/25/1997	3816
as Gasoline	33		10	mg/L	5030		03/25/1997	3816
8020 (GC, Liquid)	--						03/25/1997	3816
Benzene	6,100		100	ug/L	8020		03/25/1997	3816
Toluene	560		100	ug/L	8020		03/25/1997	3816
Ethylbenzene	970		100	ug/L	8020		03/25/1997	3816
Xylenes (Total)	2,200		100	ug/L	8020		03/25/1997	3816
MTBE	ND		400	ug/L	8020		03/25/1997	3816
SURROGATE RESULTS	--						03/25/1997	3816
Bromofluorobenzene (SURR)	99			† Rec.	5030		03/25/1997	3816
M8015 (EXT., Liquid)						03/26/1997		
DILUTION FACTOR*	20						04/01/1997	1313
as Diesel	10		1	mg/L	3510		04/01/1997	1313
SURROGATE RESULTS	--						04/01/1997	1313
Ortho-terphenyl (SURR)	132			† Rec.	3510		04/01/1997	1313

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: 13-105-106/Worthington

SAMPLE DESCRIPTION: MW-2

Date Taken: 03/20/1997

Time Taken:

LEGEND Sample No: 273848

Parameter	Results	Flags	Reporting			Method	Date	Date	Run
			Limit	Units	Extracted		Analyzed	Batch No.	
TPH (Gas/BIKE, Liquid)									
5030/MS015	--						03/25/1997		3816
DILUTION FACTOR*	200						03/25/1997		3816
as Gasoline	27		10	ug/L	5030		03/25/1997		3816
8020 (GC, Liquid)									
Benzene	3,700		100	ug/L	8020		03/25/1997		3816
Toluene	2,300		100	ug/L	8020		03/25/1997		3816
Ethylbenzene	580		100	ug/L	8020		03/25/1997		3816
Xylenes (Total)	2,800		100	ug/L	8020		03/25/1997		3816
MTBE	ND		400	ug/L	8020		03/25/1997		3816
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	97			† Rec.	5030		03/25/1997		3816
MS015 (EXT., Liquid)									
DILUTION FACTOR*	10						03/26/1997		
as Diesel	6.1	DL	0.50	ug/L	3510		04/01/1997		1313
SURROGATE RESULTS									
Ortho-terphenyl (SURR)	105			† Rec.	3510		04/01/1997		1313

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: 13-105-106/Worthington

SAMPLE DESCRIPTION: MW-3

Date Taken: 03/20/1997

Time Taken:

LEGEND Sample No: 273849

Parameter	Results	Flags	Reporting		Method	Data	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
TPH (Gas/BTEX, Liquid)								
5030/M8015	--						03/24/1997	3817
DILUTION FACTOR*	1.000						03/24/1997	3817
as Gasoline	56		50	ug/L	5030		03/24/1997	3817
8020 (GC, Liquid)	--						03/24/1997	3817
Benzene	9,900		500	ug/L	8020		03/24/1997	3817
Toluene	6,900		500	ug/L	8020		03/24/1997	3817
Ethylbenzene	1,300		500	ug/L	8020		03/24/1997	3817
Xylenes (Total)	8,000		500	ug/L	8020		03/24/1997	3817
MTBE	3,500		2000	ug/L	8020		03/24/1997	3817
SURROGATE RESULTS	--						03/24/1997	3817
Bromofluorobenzene (SURR)	102			µ Rec.	5030		03/24/1997	3817
M8015 (EXT., Liquid)						03/26/1997		
DILUTION FACTOR*	10						04/01/1997	1313
as Diesel	11	DL	0.50	ug/L	3510		04/01/1997	1313
SURROGATE RESULTS	--						04/01/1997	1313
Ortho-tarphenyl (SURR)	110			µ Rec.	3510		04/01/1997	1313

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: 13-105-106/Worthington

SAMPLE DESCRIPTION: MW-4
 Date Taken: 03/20/1997
 Time Taken:
 LEGEND Sample No: 273850

Parameter	Results	Flags	Reporting			Date Extracted	Date Analyzed	Run Batch No.
			Limit	Units	Method			
TPH (Gas/BTEX, Liquid)								
5030/MS015	--						03/24/1997	3817
DILUTION FACTOR*	100						03/24/1997	3817
as Gasoline	47		5.0	mg/L	5030		03/24/1997	3817
8020 (GC, Liquid)								
Benzene	11,000	FI	500	ug/L	8020		03/25/1997	3818
Toluene	4,500	FI	500	ug/L	8020		03/25/1997	3818
Ethylbenzene	1,100		50	ug/L	8020		03/24/1997	3817
Xylenes (Total)	5,200		50	ug/L	8020		03/24/1997	3817
MIBK	3,400		2000	ug/L	8020		03/24/1997	3817
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	98			% Rec.	5030		03/24/1997	3817
MS015 (EXT., Liquid)								
DILUTION FACTOR*	2						03/26/1997	
as Diesel	3.3		0.1	mg/L	3510		04/01/1997	1313
SURROGATE RESULTS								
Ortho-terphenyl (SURR)	106			% Rec.	3510		04/01/1997	1313

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: 11-105-106/Worthington

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
TPH (Gas/BTEX, Liquid)								
as Gasoline	105.2	0.525	0.50		mg/L	03/24/1997	aal	3816
Benzene	93.6	18.72	20.0		ug/L	03/24/1997	aal	3816
Toluene	88.3	17.66	20.0		ug/L	03/24/1997	aal	3816
Ethylbenzene	92.3	18.46	20.0		ug/L	03/24/1997	aal	3816
Xylenes (Total)	91.1	54.65	60.0		ug/L	03/24/1997	aal	3816
Bromofluorobenzene (SURRE)	96.0	96	100	‡ Rec.		03/24/1997	aal	3816
TPH (Gas/BTEX, Liquid)								
as Gasoline	94.2	0.471	0.50		mg/L	03/24/1997	aal	3817
Benzene	93.5	18.69	20.0		ug/L	03/24/1997	aal	3817
Toluene	92.6	18.51	20.0		ug/L	03/24/1997	aal	3817
Ethylbenzene	93.6	18.71	20.0		ug/L	03/24/1997	aal	3817
Xylenes (Total)	92.1	55.24	60.0		ug/L	03/24/1997	aal	3817
Bromofluorobenzene (SURRE)	96.0	96	100	‡ Rec.		03/24/1997	aal	3817
TPH (Gas/BTEX, Liquid)								
as Gasoline	102.4	0.512	0.50		mg/L	03/25/1997	aal	3818
Benzene	93.1	18.62	20.0		ug/L	03/25/1997	aal	3818
Toluene	88.2	17.64	20.0		ug/L	03/25/1997	aal	3818
Ethylbenzene	91.4	18.38	20.0		ug/L	03/25/1997	aal	3818
Xylenes (Total)	90.8	54.49	60.0		ug/L	03/25/1997	aal	3818
Bromofluorobenzene (SURRE)	97.0	97	100	‡ Rec.		03/25/1997	aal	3818
MS015 (EXT., Liquid)								
as Diesel	92.2	923	1000		mg/L	03/27/1997	aal	1313
Ortho-terphenyl (SURRE)	98.0	98	100	‡ Rec.		03/27/1997	aal	1313
MS015 (EXT., Liquid)								
as Diesel	99.1	991	1000		mg/L	03/28/1997	vah	1313
Ortho-terphenyl (SURRE)	102.0	102	100	‡ Rec.		03/28/1997	vah	1313
MS015 (EXT., Liquid)								
as Diesel	99.3	993	1000		mg/L	03/28/1997	vah	1313
Ortho-terphenyl (SURRE)	104.0	104	100	‡ Rec.		03/28/1997	vah	1313
MS015 (EXT., Liquid)								
as Diesel	92.8	928	1000		mg/L	04/01/1997	gac	1313
Ortho-terphenyl (SURRE)	98.0	98	100	‡ Rec.		04/01/1997	gac	1313

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Ref: 13-105-106/Worthington

METHOD BLANK REPORT

Parameter	Method Blank				Date Analyzed	Analyst Initials	Run Batch Number
	Amount Found	Reporting Limit	Flags	Units			
TPH (Gas/BTEX, Liquid)							
as Gasoline	ND	0.050		ug/L	03/24/1997	aal	3816
Benzene	ND	0.50		ug/L	03/24/1997	aal	3816
Toluene	ND	0.50		ug/L	03/24/1997	aal	3816
Ethylbenzene	ND	0.50		ug/L	03/24/1997	aal	3816
Xylenes (Total)	ND	0.50		ug/L	03/24/1997	aal	3816
MTBE	ND	2.0		ug/L	03/24/1997	aal	3816
Bromofluorobenzene (SURRE)	101			% Rec.	03/24/1997	aal	3816
TPH (Gas/BTEX, Liquid)							
as Gasoline	ND	0.050		ug/L	03/24/1997	aal	3817
Benzene	ND	0.50		ug/L	03/24/1997	aal	3817
Toluene	ND	0.50		ug/L	03/24/1997	aal	3817
Ethylbenzene	ND	0.50		ug/L	03/24/1997	aal	3817
Xylenes (Total)	ND	0.50		ug/L	03/24/1997	aal	3817
MTBE	ND	2.0		ug/L	03/24/1997	aal	3817
Bromofluorobenzene (SURRE)	102			% Rec.	03/24/1997	aal	3817
TPH (Gas/BTEX, Liquid)							
as Gasoline	ND	0.050		ug/L	03/25/1997	aal	3818
Benzene	ND	0.50		ug/L	03/25/1997	aal	3818
Toluene	ND	0.50		ug/L	03/25/1997	aal	3818
Ethylbenzene	ND	0.50		ug/L	03/25/1997	aal	3818
Xylenes (Total)	ND	0.50		ug/L	03/25/1997	aal	3818
MTBE	ND	2.0		ug/L	03/25/1997	aal	3818
Bromofluorobenzene (SURRE)	100			% Rec.	03/25/1997	aal	3818
MS015 (EXT., Liquid)							
as Diesel	ND	0.050		ug/L	03/27/1997	aal	1313
Ortho-tarphenyl (SURRE)	96			% Rec.	03/27/1997	aal	1313

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

4097

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: RUSH 24 HOUR 48 HOUR 5 DAY

COMPANY: Camisim Environmental
 1144 65TH ST. SUITE B
 OAKLAND, CA 94608

REPORT TO: Adam Sevi BILL TO: 13-105-106
 PHONE NO.: 510-420-0700 FAX NO.: 510-420-9170
 PROJECT NO.: 13-105-106 PROJECT NAME: WORTHINGTON
 PROJECT LOCATION: 3055 35TH ST & OAKLAND, CA

ANALYSIS REQUEST

SAMPLE ID	LOCATION	SAMPLING		# CONTAINERS	TYPE CONTAINERS	MATRIX					METHOD PRESERVED				BTEX & TPH as Gasoline (802/8020 & 8015)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 EdF/5520 B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 801/8010	BTEX & MTBE	EPA 808/8080	EPA 808/8080 - PCBs Only	EPA 824/8240/8280	EPA 825/8270	CAM - 17 Metals	EPA - Priority Pollutant Metals	LIFT Metals	LEAD (7240/7421/239.2/8010)	ORGANIC LEAD	RCI	OTHER	COMMENTS				
		DATE	TIME			WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	OTHER																						
MW-1		3/20		3	VOA	X						X																								
MW-1				1	LR	X																														
MW-2				3	VOA	X						X																								
MW-2				1	LR	X																														
MW-3				3	VOA	X						X																								
MW-3				1	LR	X																														
MW-4				3	VOA	X						X																								
MW-4				1	LR	X																														

CUSTODY SEALED

Date: 3/21/97 Time: 1800 Initial: AS
 SEAL INTACT?
 Yes No Initial: MM

RELINQUISHED BY: <u>Adam Sevi</u>	DATE: <u>3/21/97</u>	TIME: <u>11:00</u>	RECEIVED BY: <u>Steven Rapp</u>
RELINQUISHED BY: <u>Steven Rapp</u>	DATE: <u>3/21/97</u>	TIME: <u>1800</u>	RECEIVED BY: <u>W. Davis</u> 0930
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY LABORATORY: 032297

REMARKS: Cooler Temp 1.5°C

KEY TO RESULT FLAGS

- * : RPD between sample duplicates exceeds 30%.
- *M : RPD between sample duplicates or MS/MSD exceeds 20%.
- + : Correlation coefficient for the Method of Standard Additions is less than 0.995.
- < : Sample result is less than reported value.
- B-I : Value is between Method Detection Limit and Reporting Limit.
- B-O : Analyte found in blank and sample.
- C : The result confirmed by secondary column or GC/MS analysis.
- CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.
- COMP : Sample composited by equal volume prior to analysis.
- CV : Parameter cannot be analyzed for in a preserved sample.
- CWT : Due to the sample matrix, constant weight could not be achieved.
- D- : The result has an atypical pattern for Diesel analysis.
- D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.
- DE : ND for hydrocarbons, non-discrete baseline rise detected.
- DH : The result appears to be a heavier hydrocarbon than Diesel.
- DL : The result appears to be a lighter hydrocarbon than Diesel.
- DR : Elevated Reporting Limit due to Matrix.
- DS : Surrogate diluted out of range.
- DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.
- FA : Compound quantitated at a 2X dilution factor.
- FB : Compound quantitated at a 5X dilution factor.
- FC : Compound quantitated at a 10X dilution factor.
- FD : Compound quantitated at a 20X dilution factor.
- FE : Compound quantitated at a 50X dilution factor.
- FF : Compound quantitated at a 100X dilution factor.
- FG : Compound quantitated at a 200X dilution factor.
- FH : Compound quantitated at a 500X dilution factor.
- FI : Compound quantitated at a 1000X dilution factor.
- FJ : Compound quantitated at a greater than 1000x dilution factor.
- FK : Compound quantitated at a 25X dilution factor.
- FL : Compound quantitated at a 250X dilution factor.
- G- : The result has an atypical pattern for Gasoline.
- G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.
- GH : The result appears to be a heavier hydrocarbon than Gasoline.
- GL : The result appears to be a lighter hydrocarbon than Gasoline.
- GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.
- HT : Analysis performed outside of the method specified holding time.
- HTC : Confirmation analyzed outside of the method specified holding time.
- HTP : Prep procedure performed outside of the method specified holding time.
- HTR : Received after holding time expired, analyzed ASAP after receipt.
- HX : Peaks detected within the quantitation range do not match standard used.
- J : Value is estimated.
- MI : Matrix Interference Suspected.
- MSA : Value determined by Method of Standard Additions.
- MSA* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.
- NI1 : Sample spikes outside of QC limits; matrix interference suspected.
- NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.
- NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.
- NI4 : MS/MSD outside of control limits, serial dilution within control.
- P : There is >40% difference between primary and confirmation analysis.
- P7 : pH of sample > 2; sample analyzed past 7 days.
- RSC : Refer to subcontract laboratory report for QC data.
- S2 : Matrix interference confirmed by repeat analysis.
- SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.
- TND : Conc. of the total analyte ND; therefore this analyte is ND also.
- UMDL : Undetected at the Method Detection Limit.
- UTD : Unable to perform requested analysis.

FORM. FLAGS

Rev. 01/24/97