



Shell Oil Products US

December 18, 2003

RO 305

Mr. Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Alameda County
DEC 23 2003
Environmental Health

Subject: Shell-branded Service Station
2001 Fruitvale Avenue
Oakland, California

Dear Mr. Gholami:

Attached for your review and comment is a copy of the *Fourth Quarter 2003 Monitoring Report* for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna
Sr. Environmental Engineer

December 18, 2003

Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Fourth Quarter 2003 Monitoring Report**
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, California
Incident # 97109122
Cambria Project # 245-1296-002



Dear Mr. Gholami:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

FOURTH QUARTER 2003 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California developed, gauged and sampled all site wells, calculated groundwater elevations, and compiled the analytical data. Cambria prepared a site vicinity map which includes previously submitted well survey information (Figure 1) and a groundwater elevation contour map (Figure 2). Blaine's report, including the analytical laboratory report and supporting field documents, is presented as Attachment A.

The groundwater monitoring indicated a southwesterly groundwater flow direction. No indication of free product was observed in groundwater. Based upon the groundwater flow direction and the low chemical concentrations, it appears that a significant hydrocarbon plume is not present.

**Cambria
Environmental
Technology, Inc.**

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

ANTICIPATED FIRST QUARTER 2004 ACTIVITIES

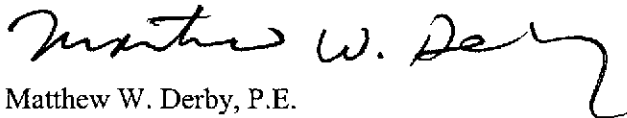
Groundwater Monitoring: The next sampling event is scheduled for first quarter 2004. At that time, Blaine will gauge and sample all wells and tabulate the data. Cambria will prepare a monitoring report.

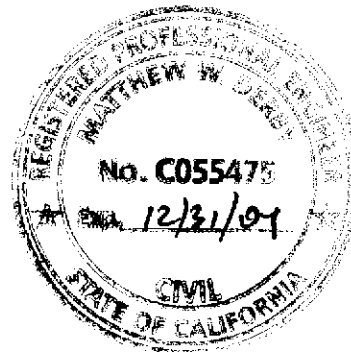
CLOSING



We appreciate the opportunity to work with you on this project. Please call Matt Derby at (510) 420-3332, if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc


Matthew W. Derby, P.E.
Senior Project Engineer

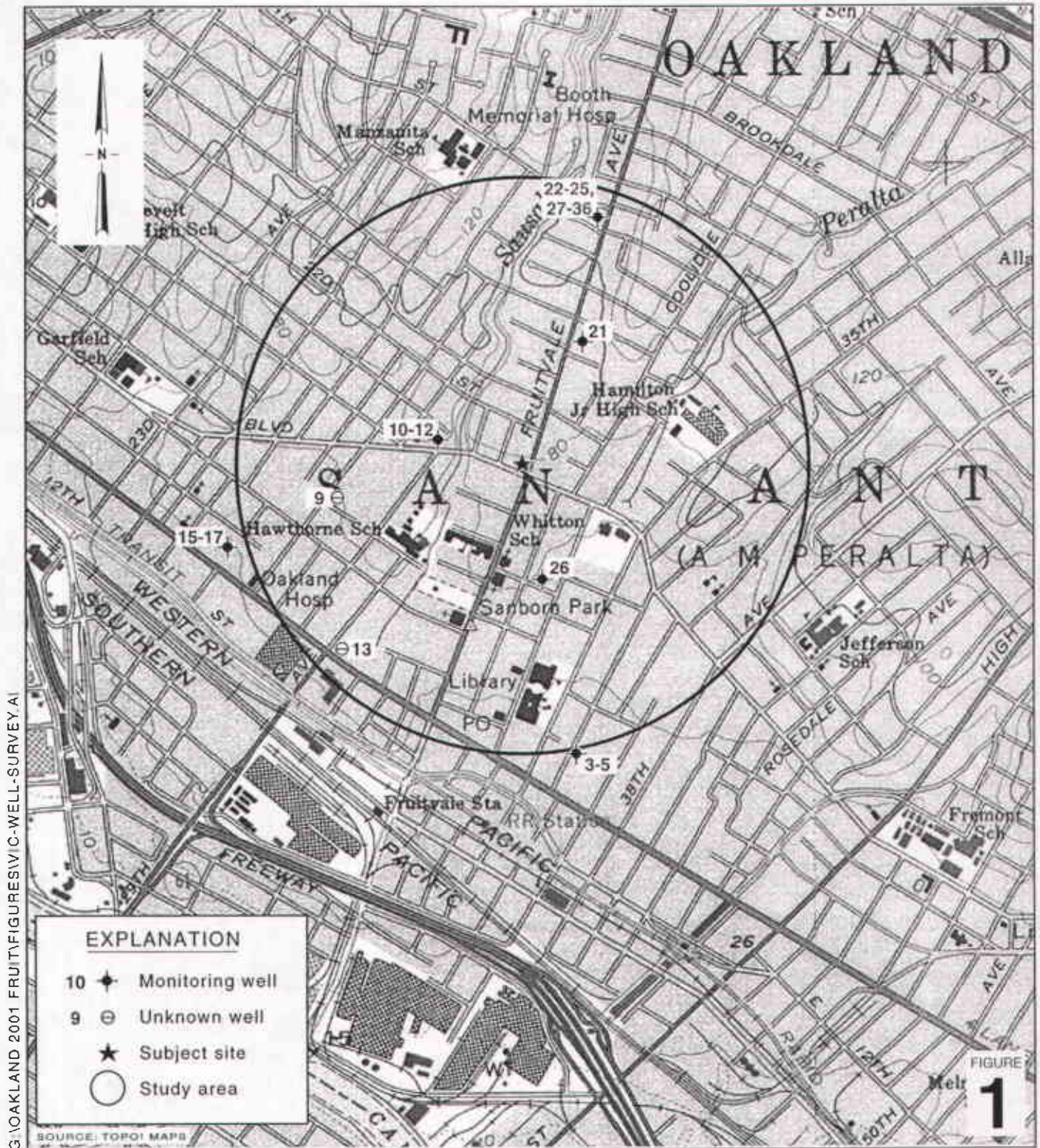


Figures: 1 - Vicinity/Area Well Survey Map
2 - Groundwater Elevation Contour Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Shell Oil Products US, 20945 S. Wilmington Ave., Carson, CA 90810
Mr. Fidel P & Mrs. Dolores G Casillas, 2910 East 16th Street, Oakland, CA 94601

G:\Oakland 2001 Fruitvale\Qm\4q03\4q03qm.doc



G:\OAKLAND 2001 FRUIT\FIGURES\VIC-WELL-SURVEY.A1

Former Shell Service Station
 2001 Fruitvale Avenue
 Oakland, California
 Incident #97109122



C A M B R I A

**Site Vicinity/Area Well
 Survey Map**

(1/2 Mile Radius)

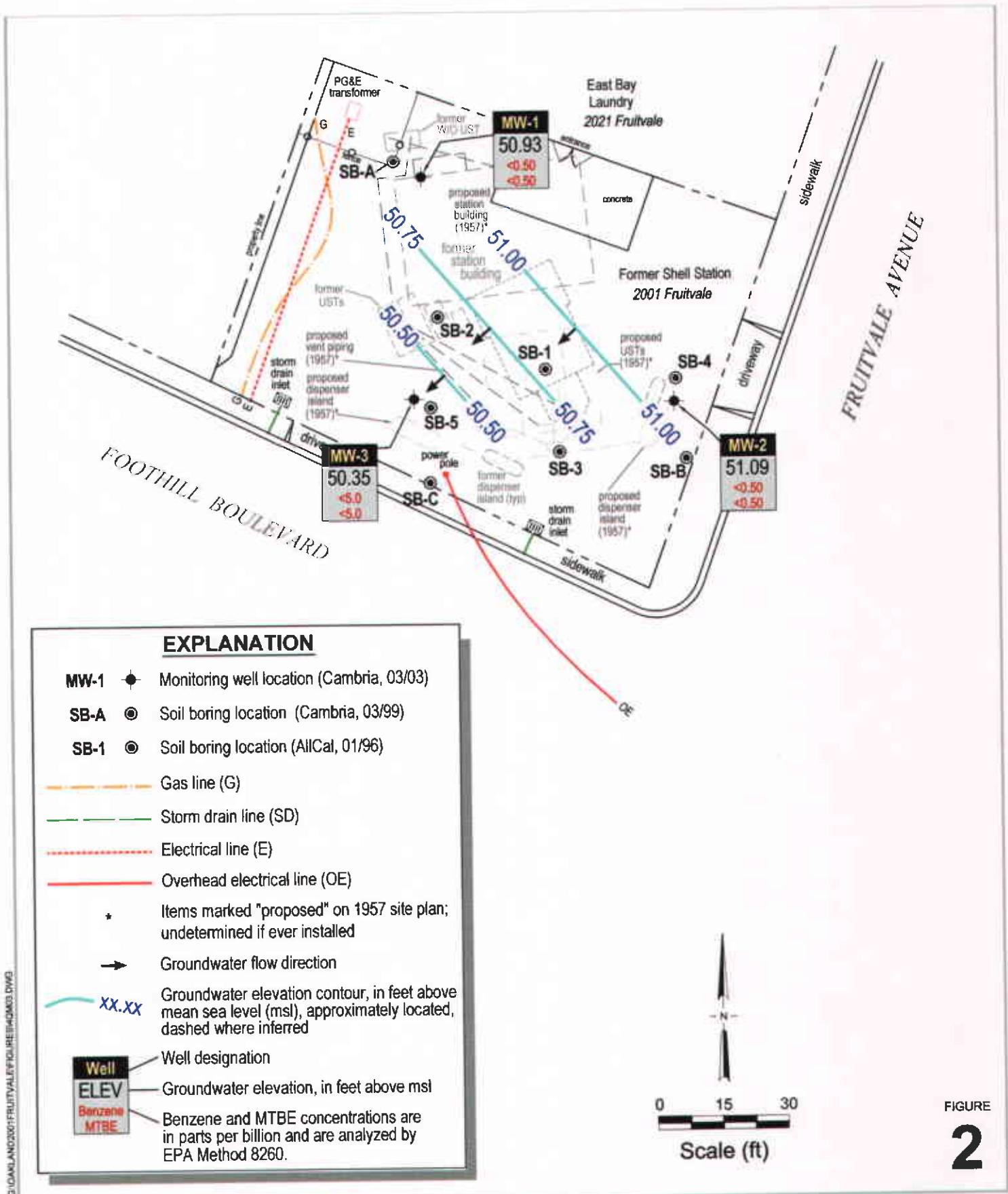


FIGURE
2

Former Shell Service Station
 2001 Fruitvale Avenue
 Oakland, California
 Incident #97109122

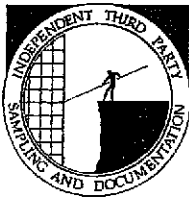


**Groundwater Elevation
 Contour Map**

November 4, 2003

ATTACHMENT A
Blaine Groundwater Monitoring Report
and Field Notes

BLAINE
TECH SERVICES, INC.



1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

December 5, 2003

Karen Petryna
Shell Oil Products US
P.O. Box 7869
Burbank, CA 91510-7869

Fourth Quarter 2003 Groundwater Monitoring at
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

Monitoring performed November 4, 2003

Groundwater Monitoring Report **031104-JP-1**

This report covers the routine monitoring of groundwater wells at this former Shell facility. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purge water (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Leon Gearhart
Project Coordinator

LG/jt

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Oakland, CA 94608

WELL CONCENTRATIONS
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)
---------	------	----------------	----------------	-------------	-------------	-------------	-------------	------------------------	--------------	---------------------------	--------------------------

MW-1	05/01/2003	NA	NA	NA	NA	NA	NA	NA	74.37	18.82	55.55
MW-1	05/13/2003	260 a	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	18.99	55.38
MW-1	07/01/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	21.11	53.26
MW-1	11/04/2003	86 a	170 a	<0.50	<0.50	<0.50	<1.0	<0.50	74.37	23.44	50.93

MW-2	05/01/2003	NA	NA	NA	NA	NA	NA	NA	74.25	18.48	55.77
MW-2	05/13/2003	190	120 a	<0.50	<0.50	1.3	5.2	<0.50	74.25	18.71	55.54
MW-2	07/01/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.25	20.64	53.61
MW-2	11/04/2003	<50	<50	<0.50	<0.50	<0.50	<1.0	<0.50	74.25	23.16	51.09

MW-3	05/01/2003	NA	NA	NA	NA	NA	NA	NA	73.63	18.00	55.63
MW-3	05/13/2003	6,100 a	160 a	<0.50	<0.50	<0.50	<1.0	<0.50	73.63	18.12	55.51
MW-3	07/01/2003	210	57 a	<0.50	<0.50	<0.50	<1.0	<0.50	73.63	20.00	53.63
MW-3	11/04/2003	4,200	630 a	<5.0	<5.0	8.7	10	<5.0	73.63	23.28	50.35

WELL CONCENTRATIONS
Former Shell Service Station
2001 Fruitvale Avenue
Oakland, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft)	GW Elevation (MSL)
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Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B.

TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015.

BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B.

MTBE = Methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = Parts per billion

MSL = Mean sea level

ft = Feet

<n = Below detection limit

NA = Not applicable

Notes:

a = Hydrocarbon does not match pattern of laboratory's standard.

Site surveyed May 29, 2003, by Virgil Chavez Land Surveying of Vallejo, California.

Blaine Tech Services, Inc.

November 18, 2003

1680 Rogers Avenue
San Jose, CA 95112-1105

Attn.: Leon Gearhart

Project#: 031104-JP1

Project: 97109122

Site: 2001 Fruitvale Ave., Oakland

Dear Mr. Gearhart,

Attached is our report for your samples received on 11/05/2003 17:25

This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 12/20/2003 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@stl-inc.com

Sincerely,



Vincent Vancil
Project Manager

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496



STL

Submission #: 2003-11-0218

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1

97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	11/04/2003 10:00	Water	1
MW-2	11/04/2003 10:35	Water	2
MW-3	11/04/2003 11:15	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

11/18/2003 14:08

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1

97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-1	Lab ID:	2003-11-0218-1
Sampled:	11/04/2003 10:00	Extracted:	11/12/2003 23:13
Matrix:	Water	QC Batch#:	2003/11/12-2C-69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	86	50	ug/L	1.00	11/12/2003 23:13	g
Benzene	ND	0.50	ug/L	1.00	11/12/2003 23:13	
Toluene	ND	0.50	ug/L	1.00	11/12/2003 23:13	
Ethylbenzene	ND	0.50	ug/L	1.00	11/12/2003 23:13	
Total xylenes	ND	1.0	ug/L	1.00	11/12/2003 23:13	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/12/2003 23:13	
Surrogate(s)						
1,2-Dichloroethane-d4	95.0	76	%	1.00	11/12/2003 23:13	
Toluene-d8	96.7	78	%	1.00	11/12/2003 23:13	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-2	Lab ID:	2003-11-0218 - 2
Sampled:	11/04/2003 10:35	Extracted:	11/12/2003 23:31
Matrix:	Water	QC Batch#:	2003/11/12-2C.69

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	11/12/2003 23:31	
Benzene	ND	0.50	ug/L	1.00	11/12/2003 23:31	
Toluene	ND	0.50	ug/L	1.00	11/12/2003 23:31	
Ethylbenzene	ND	0.50	ug/L	1.00	11/12/2003 23:31	
Total xylenes	ND	1.0	ug/L	1.00	11/12/2003 23:31	
Methyl tert-butyl ether (MTBE)	ND	0.50	ug/L	1.00	11/12/2003 23:31	
Surrogate(s)						
1,2-Dichloroethane-d4	102.8	76	%	1.00	11/12/2003 23:31	
Toluene-d8	91.8	78	%	1.00	11/12/2003 23:31	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	5030B	Test(s):	8260B
Sample ID:	MW-3	Lab ID:	2003-11-0218 - 3
Sampled:	11/04/2003 11:15	Extracted:	11/17/2003 20:39
Matrix:	Water	QC Batch#:	2003/11/17-1B.66
Analysis Flag: 0 (See Legend and Note Section)			

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	4200	500	ug/L	10.00	11/17/2003 20:39	
Benzene	ND	5.0	ug/L	10.00	11/17/2003 20:39	
Toluene	ND	5.0	ug/L	10.00	11/17/2003 20:39	
Ethylbenzene	8.7	5.0	ug/L	10.00	11/17/2003 20:39	
Total xylenes	10	10	ug/L	10.00	11/17/2003 20:39	
Methyl tert-butyl ether (MTBE)	ND	5.0	ug/L	10.00	11/17/2003 20:39	
Surrogate(s)						
1,2-Dichloroethane-d4	94.1	76	%	10.00	11/17/2003 20:39	
Toluene-d8	99.2	78	%	10.00	11/17/2003 20:39	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report					
Prep(s): 5030B		Water		Test(s): 8260B	
Method Blank				QC Batch # 2003/11/12-2C.69	
MB: 2003/11/12-2C.69-004				Date Extracted: 11/12/2003 20:04	
Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/12/2003 20:04	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/12/2003 20:04	
Benzene	ND	0.5	ug/L	11/12/2003 20:04	
Toluene	ND	0.5	ug/L	11/12/2003 20:04	
Ethylbenzene	ND	0.5	ug/L	11/12/2003 20:04	
Total xylenes	ND	1.0	ug/L	11/12/2003 20:04	
Surrogates(s)					
1,2-Dichloroethane-d4	88.0	76-130	%	11/12/2003 20:04	
Toluene-d8	103.6	78-115	%	11/12/2003 20:04	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report

Prep(s): 5030B
Method Blank
MB: 2003/11/17-1B.66-042

Water

Test(s): 8260B
QC Batch # 2003/11/17-1B.66
Date Extracted: 11/17/2003 11:42

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	50	ug/L	11/17/2003 11:42	
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	11/17/2003 11:42	
Benzene	ND	0.5	ug/L	11/17/2003 11:42	
Toluene	ND	0.5	ug/L	11/17/2003 11:42	
Ethylbenzene	ND	0.5	ug/L	11/17/2003 11:42	
Total xylenes	ND	1.0	ug/L	11/17/2003 11:42	
Surrogates(s)					
1,2-Dichloroethane-d4	99.0	76-130	%	11/17/2003 11:42	
Toluene-d8	93.6	78-115	%	11/17/2003 11:42	

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report										
Prep(s): 5030B					Test(s): 8260B					
Laboratory Control Spike			Water			QC Batch # 2003/11/12-2C-69				
LCS	2003/11/12-2C-69-027		Extracted: 11/12/2003			Analyzed: 11/12/2003 19:27				
LCSD	2003/11/12-2C-69-046		Extracted: 11/12/2003			Analyzed: 11/12/2003 19:46				
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	23.1	20.9	25	92.4	83.6	10.0	65-165	20		
Benzene	18.5	20.8	25	74.0	83.2	11.7	69-129	20		
Toluene	22.5	22.5	25	90.0	90.0	0.0	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	453	432	500	90.6	86.4		76-130			
Toluene-d8	459	491	500	91.8	98.2		78-115			

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report									
Prep(s): 5030B					Test(s): 8260B				
Laboratory Control Spike			Water			QC Batch # 2003/11/17-1B.66			
LCS	2003/11/17-1B.66-054		Extracted: 11/17/2003			Analyzed: 11/17/2003 10:54			
LCSD	2003/11/17-1B.66-018		Extracted: 11/17/2003			Analyzed: 11/17/2003 11:18			

Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Methyl tert-butyl ether (MTBE)	22.6	22.6	25	90.4	90.4	0.0	65-165	20		
Benzene	23.4	23.2	25	93.6	92.8	0.9	69-129	20		
Toluene	23.5	23.2	25	94.0	92.8	1.3	70-130	20		
Surrogates(s)										
1,2-Dichloroethane-d4	492	489	500	98.4	97.8		76-130			
Toluene-d8	467	481	500	93.4	96.2		78-115			

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

11/18/2003 14:08

Gas/BTEX/MTBE by 8260B (C6-C12)

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1

97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Legend and Notes

Analysis Flag

o

Reporting limits were raised due to high level of analyte present in the sample.

Result Flag

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Samples Reported

Sample Name	Date Sampled	Matrix	Lab #
MW-1	11/04/2003 10:00	Water	1
MW-2	11/04/2003 10:35	Water	2
MW-3	11/04/2003 11:15	Water	3

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

11/18/2003 16:37

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	3511	Test(s):	8015M
Sample ID:	MW-1	Lab ID:	2003-11-0218-1
Sampled:	11/04/2003 10:00	Extracted:	11/11/2003 14:34
Matrix:	Water	QC Batch#:	2003/11/11-08.10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	170	50	ug/L	1.00	11/13/2003 14:00	ndp
Surrogate(s)						
o-Terphenyl	115.2	50	%	1.00	11/13/2003 14:00	

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	3511	Test(s):	8015M
Sample ID:	MW-2	Lab ID:	2003-11-0218-2
Sampled:	11/04/2003 10:35	Extracted:	11/11/2003 14:34
Matrix:	Water	QC Batch#:	2003/11/11-08:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	ND	50	ug/L	1.00	11/13/2003 14:27	
Surrogate(s) o-Terphenyl	111.2	50	%	1.00	11/13/2003 14:27	

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Prep(s):	3511	Test(s):	8015M
Sample ID:	MW-3	Lab ID:	2003-11-0218 - 3
Sampled:	11/04/2003 11:15	Extracted:	11/11/2003 14:34
Matrix:	Water	QC Batch#:	2003/11/11-08:10

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Diesel	630	50	ug/L	1.00	11/18/2003 10:35	ndp
Surrogate(s)						
o-Terphenyl	120.0	50	%	1.00	11/18/2003 10:35	

Severn Trent Laboratories, Inc.

STL San Francisco * 1220 Quarry Lane, Pleasanton, CA 94566

Tel 925 484 1919 Fax 925 484 1096 * www.stl-inc.com * CA DHS ELAP# 2496

11/18/2003 16:37

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue

San Jose, CA 95112-1105

Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1

97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report					
Prep(s): 3511		Water		Test(s): 8015M	
Method Blank				QC Batch # 2003/11/11-08.10	
MB: 2003/11/11-08.10-001				Date Extracted: 11/11/2003 14:34	
Compound	Conc.	RL	Unit	Analyzed	Flag
Diesel	ND	50	ug/L	11/13/2003 12:38	
Surrogates(s)					
o-Terphenyl	119.2	50-150	%	11/13/2003 12:38	

Diesel

Blaine Tech Services, Inc.

Attn.: Leon Gearhart

1680 Rogers Avenue
San Jose, CA 95112-1105
Phone: (408) 573-0555 Fax: (408) 573-7771

Project: 031104-JP1
97109122

Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Batch QC Report										
Prep(s): 3511						Test(s): 8015M				
Laboratory Control Spike				Water			QC Batch # 2003/11/11-08.10			
LCS	2003/11/11-08.10-002			Extracted: 11/11/2003			Analyzed: 11/13/2003 13:05			
LCSD	2003/11/11-08.10-003			Extracted: 11/11/2003			Analyzed: 11/17/2003 18:40			
Compound	Conc. ug/L		Exp.Conc.	Recovery %		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD		%	Rec.	RPD	LCS
Diesel	791	796	680	116.3	117.1	0.7	60-150	25		
Surrogates(s) o-Terphenyl	1.47	1.76	1.25	117.6	140.8		50-150	0		

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Diesel

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Received: 11/05/2003 17:25

Site: 2001 Fruitvale Ave., Oakland

Legend and Notes

Result Flag

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

LAB: STL

SHELL Chain Of Custody Record

74894

Lab Identification (if necessary):

Address:

City, State, Zip:

Shell Project Manager to be Invoiced:

- SCIENCE & ENGINEERING
- TECHNICAL SERVICES
- CRMT HOUSTON

Karen Petryna

2003-11-0218

INCIDENT NUMBER (S&E ONLY)

9 7 1 0 9 1 2 2

SAP or CRMT NUMBER (TS/CRMT)

DATE: 11/4/03

PAGE: 1 of 1

CLIENT/COMPANY: Blaine Tech Services <small>ADDRESS</small> 1680 Rogers Avenue, San Jose, CA 95112 <small>PROJECT CONTACT (Agency or IRI Report to)</small> Leon Gearhart <small>TELEPHONE</small> 408-573-0555 <small>FAX</small> 408-573-7771 <small>EMAIL</small> lgearhart@blainetech.com		<small>LOG CODE</small> BTSS <small>SITE ADDRESS (Street and City)</small> 2001 Fruitvale Ave., Oakland <small>EDP DELIVERABLE TO (Responsible Party or Design)</small> Ann Kreml <small>PHONE NO.</small> 510-420-3385 <small>GLOBAL ID NO.</small> T0600102236 <small>CONSULTANT PROJECT NO.</small> 031604-JPI	
<small>LAB USE ONLY</small> Matthew Pyrch		<small>LAB USE ONLY</small>	

TURNAROUND TIME (BUSINESS DAYS):
 10 DAYS 5 DAYS 72 HOURS 48 HOURS 24 HOURS LESS THAN 24 HOURS

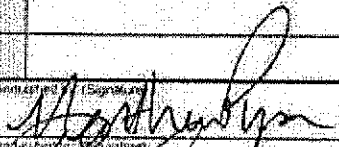
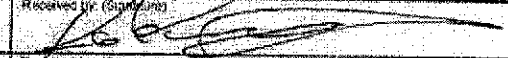
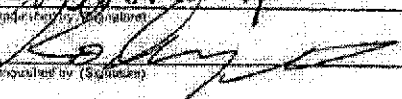
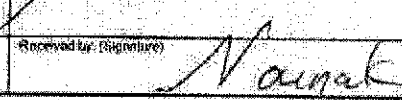

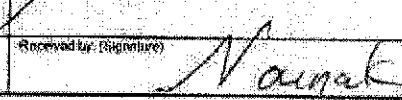
LA - RWQCB REPORT FORMAT USE AGENCY

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: _____ CHECK BOX IF EDD IS NOT NEEDED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification				TRP - Gas, Purgeable	BTEX	MTBE (0.021B - Spbb RL)	MTBE (0.500B - 0.5ppb RL)	Oxygenates (S) by (0.200B)	Ethanol (0.200B)	Methanol	1,7-DCA (0.200B)	EDB (0.200B)	TPH - Diesel, Extractable (0.01 gm)	FIELD NOTES: Contains Preservative or PID Readings or Laboratory Notes 32°C TEMPERATURE ON RECEIPT C°
	DATE	TIME	MATRIX	NO. OF CONT.											
	MW-1	11/4/03	1000	W	G	X	X	X						X	
	MW-2	↓	1035	↓	↓	X	X	X						X	
	MW-3	↓	1115	↓	↓	X	X	X						X	

<small>Prepared by (Signature)</small> 	<small>Received by (Signature)</small> 	<small>Date</small> <u>11/5/03/6</u>	<small>Time</small> <u>12:55</u>
<small>Prepared by (Signature)</small> 	<small>Received by (Signature)</small> 	<small>Date</small> <u>11/5/03</u>	<small>Time</small> <u>17:25</u>
<small>Prepared by (Signature)</small> 	<small>Received by (Signature)</small> 	<small>Date</small> <u>11/5/03</u>	<small>Time</small> <u>17:25</u>

DISTRIBUTION: White - with final report; Green - in file; Yellow and Pink to Client.

EW 10/02 REV 001

CSO Sample (7) 11/5/03

WELL GAUGING DATA

Project # 031104-JPI Date 11/4/03 Client Shell: 97109122

Site 2001 Fruitvale Ave., Oakland, CA

Well ID	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC
MW-1	4					23.44	29.75	TOC
MW-2	4					23.16	30.28	↓
MW-3	4					23.28	29.81	

SHELL WELL MONITORING DATA SHEET

BTS #: 031104 - JPI	Site: 2001 Fruitvale Ave, Oakland
Sampler: Matt Pyrch	Date: 11/4/03
Well I.D.: MW-1	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.75	Depth to Water (DTW): 23.44
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 24.70	

Purge Method: Bailer Disposable Bailer Positive Air Displacement <u>Electric Submersible</u>	Waters Peristaltic Extraction Pump Other _____	Sampling Method: <u>Bailer</u> Disposable Bailer Extraction Port Dedicated Tubing Other: _____
---	--	--

$\frac{4.1 \text{ (Gals.)} \times 3 \text{ Specified Volumes}}{1 \text{ Case Volume}} = 12.3 \text{ Gals. Calculated Volume}$	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Well Diameter</th> <th>Multiplier</th> <th>Well Diameter</th> <th>Multiplier</th> </tr> </thead> <tbody> <tr> <td>1"</td> <td>0.04</td> <td>4"</td> <td>0.65</td> </tr> <tr> <td>2"</td> <td>0.16</td> <td>6"</td> <td>1.47</td> </tr> <tr> <td>3"</td> <td>0.37</td> <td>Other</td> <td>radius² * 0.163</td> </tr> </tbody> </table>	Well Diameter	Multiplier	Well Diameter	Multiplier	1"	0.04	4"	0.65	2"	0.16	6"	1.47	3"	0.37	Other	radius ² * 0.163
Well Diameter	Multiplier	Well Diameter	Multiplier														
1"	0.04	4"	0.65														
2"	0.16	6"	1.47														
3"	0.37	Other	radius ² * 0.163														

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
0950	65.0	7.5	526	396	4	tan
0953	66.8	7.2	480	178	8	light tan
0954	67.0	7.1	481	303	12.5	tan

Did well dewater? Yes No Gallons actually evacuated: 12.5

Sampling Date: 11/4/03 Sampling Time: 1000 Depth to Water: 23.75

Sample I.D.: MW-1 Laboratory: STL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

EB I.D. (if applicable): @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 031104-JP1	Site: 2001 Fruitvale Ave, Oakland
Sampler: MW-2 ^{sp} Matt Pyron	Date: 11/4/03
Well I.D.: MW-2	Well Diameter: 2 3 (4) 6 8
Total Well Depth (TD): 30.28	Depth to Water (DTW): 23.16
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (VC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 24.58	

Purge Method: Bailer Watera Sampling Method: (Bailer)
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
 (Electric Submersible) Other _____ Dedicated Tubing
 Other: _____

4.6 (Gals.) X 3 = 13.8 Gals.
 I Case Volume Specified Volumes Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

Time	Temp (°F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	Gals. Removed	Observations
1028	65.8	7.3	479	115	4.5	Clear
1029	66.0	7.1	484	134	8.0	tan
1030	66.7	7.0	473	869	14.0	11

Did well dewater? Yes (No) Gallons actually evacuated: 14.0

Sampling Date: 11/4/03 Sampling Time: 1035 Depth to Water: 24.24

Sample I.D.: MW-2 Laboratory: (STL) Other _____

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: _____

EB I.D. (if applicable): _____ @ _____ Time Duplicate I.D. (if applicable): _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other: _____

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL WELL MONITORING DATA SHEET

BTS #: 031104 - JP1	Site: 2001 Fruitvale Ave, Oakland
Sampler: Matt Pynch	Date: 11/4/03
Well I.D.: MW-3	Well Diameter: 2 3 <u>4</u> 6 8
Total Well Depth (TD): 29.81	Depth to Water (DTW): 23.28
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: <u>PVC</u> Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 24.58	

Purge Method: Bailer Water Sampling Method: Bailer
 Disposable Bailer Peristaltic Disposable Bailer
 Positive Air Displacement Extraction Pump Extraction Port
Electric Submersible Other _____ Dedicated Tubing

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius ² * 0.163

4.2 (Gals.) X 3 = 12.6 Gals.
 I Case Volume Specified Volumes Calculated Volume

Time	Temp (°F)	pH	Cond. (mS or <u>µS</u>)	Turbidity (NTUs)	Gals. Removed	Observations
1103	66.2	<u>6.72</u>	537	159	4.5	Clear, odor
1104	67.1	7.0	535	<1000	8.5	tan, odor
1105	67.0	7.0	535	<1000	13.0	"

Did well dewater? Yes No Gallons actually evacuated: 13.0

Sampling Date: 11/4/03 Sampling Time: 1115 Depth to Water: 26.45 (site departure)

Sample I.D.: MW-3 Laboratory: STL Other _____

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

EB I.D. (if applicable): @ _____ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV