

**ExxonMobil**  
**Environmental Services Company**  
4096 Piedmont Avenue #194  
Oakland, CA 94611  
510.547.8196  
510.547.8706 FAX  
jennifer.c.sedlachek@exxonmobil.com

**RECEIVED**

2:49 pm, Feb 04, 2009

Alameda County  
Environmental Health

**Jennifer C. Sedlachek**  
Project Manager

**ExxonMobil**

January 30, 2009

Ms. Barbara Jakub  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502

Subject: Former Mobil Station 04FGN, 14994 East 14<sup>th</sup> Street, San Leandro, California

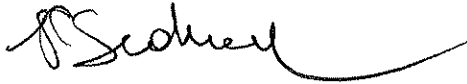
Dear Ms. Jakub:

Attached for your review and comment is a copy of the *Quarterly Groundwater Monitoring Report, Fourth Quarter 2008* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the December 2008 sampling event.

Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

If you have any questions or comments, please contact me at 510.547.8196.

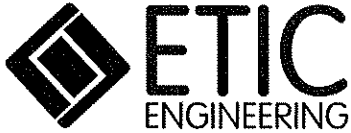
Sincerely,



Jennifer C. Sedlachek  
Project Manager

Attachment: ETIC Quarterly Groundwater Monitoring Report

- c: w/ attachment:  
Ms. Jana Gluckman – property owner
- c: w/o attachment:  
Mr. Bryan Campbell – ETIC Engineering, Inc.



**Quarterly Groundwater Monitoring Report  
Fourth Quarter 2008**

**Former Mobil Station 04FGN  
14994 East 14<sup>th</sup> Street  
San Leandro, California**

Prepared for

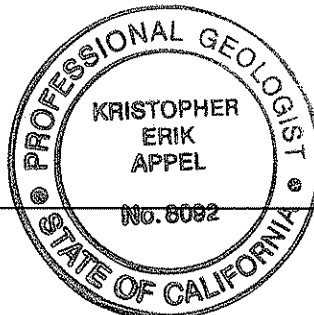
ExxonMobil Oil Corporation

Prepared by

ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, California 94523  
(925) 602-4710

A handwritten signature in black ink, appearing to read "K. Erik Appel".

K. Erik Appel, P.G. #8092  
Senior Project Geologist



A handwritten date in black ink, "January 30, 2009".

Date

January 2009

## SITE CONTACTS

Site Name: Former Mobil Station 04FGN

Site Address: 14994 East 14<sup>th</sup> Street  
San Leandro, California

ExxonMobil Project Manager: Jennifer C. Sedlachek  
ExxonMobil Environmental Services Company  
4096 Piedmont Avenue #194  
Oakland, California 94611  
(510) 547-8196

Consultant to ExxonMobil: ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, California 94523  
(925) 602-4710

ETIC Project Manager: Bryan Campbell

Regulatory Oversight: Barbara Jakub  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502  
(510) 567-6700

## INTRODUCTION

ETIC Engineering, Inc. has prepared this quarterly groundwater monitoring report for ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation for former Mobil Station 04FGN. This report presents the results for the most recent groundwater monitoring conducted at the site and summarizes recent site activities. This report covers site activities from 7 July 2004, the date of the previous monitoring event, until 17 December 2008, the date of the most recent monitoring event. Groundwater monitoring results, well construction details, and a groundwater monitoring plan are provided in the attached figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the attached appendixes.

## GENERAL SITE INFORMATION

<b>Site name:</b>	Former Mobil Station 04FGN
<b>Site address:</b>	14994 East 14 <sup>th</sup> Street, San Leandro, California
<b>Current property owner:</b>	Jana Gluckman
<b>Current site use:</b>	Retail shopping center
<b>Current phase of project:</b>	Groundwater monitoring
<b>Tanks at site:</b>	None
<b>Number of wells:</b>	3 (all onsite)

## GROUNDWATER MONITORING SUMMARY

<b>Gauging and sampling date:</b>	17 December 2008
<b>Wells gauged and sampled:</b>	MW1A-MW3A
<b>Wells gauged only:</b>	None
<b>Groundwater flow direction:</b>	Southwest
<b>Groundwater gradient:</b>	0.0065
<b>Well screens submerged:</b>	None
<b>Well screens not submerged:</b>	MW1A-MW3A
<b>Liquid-phase hydrocarbons:</b>	Not observed or detected
<b>Laboratory:</b>	TestAmerica, Inc., Morgan Hill, California

### Analyses performed:

- Total Petroleum Hydrocarbons as gasoline by EPA Method 8015B
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8260B
- Methyl tertiary butyl ether, ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, diisopropyl ether, 1,2-dichloroethane, and 1,2-dibromoethane by EPA Method 8260B
- Volatile organic compounds by EPA Method 8260B

## **ADDITIONAL ACTIVITIES PERFORMED AT THE SITE**

Per the 20 August 2008 letter from the Alameda County Health Care Services Agency, wells MW1A-MW3A were developed and sampled. The wells were developed by surging them with a surge block and purging 10 casing volumes. On 17 December 2008, a split sample was obtained for well MW7 from the consultant for the 76 Station located to the southeast of the site.

## **WORK PROPOSED FOR NEXT QUARTER**

The site will be reviewed and future work will be based on the site conditions.

### Attachments:

Figure 1: Site Map Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction Details

Table 2: Groundwater Monitoring Data

Table 3: Groundwater Analytical Results for Oxygenates and Additives

Table 4: Groundwater Monitoring Plan

Appendix A: Field Protocols

Appendix B: Field Documents

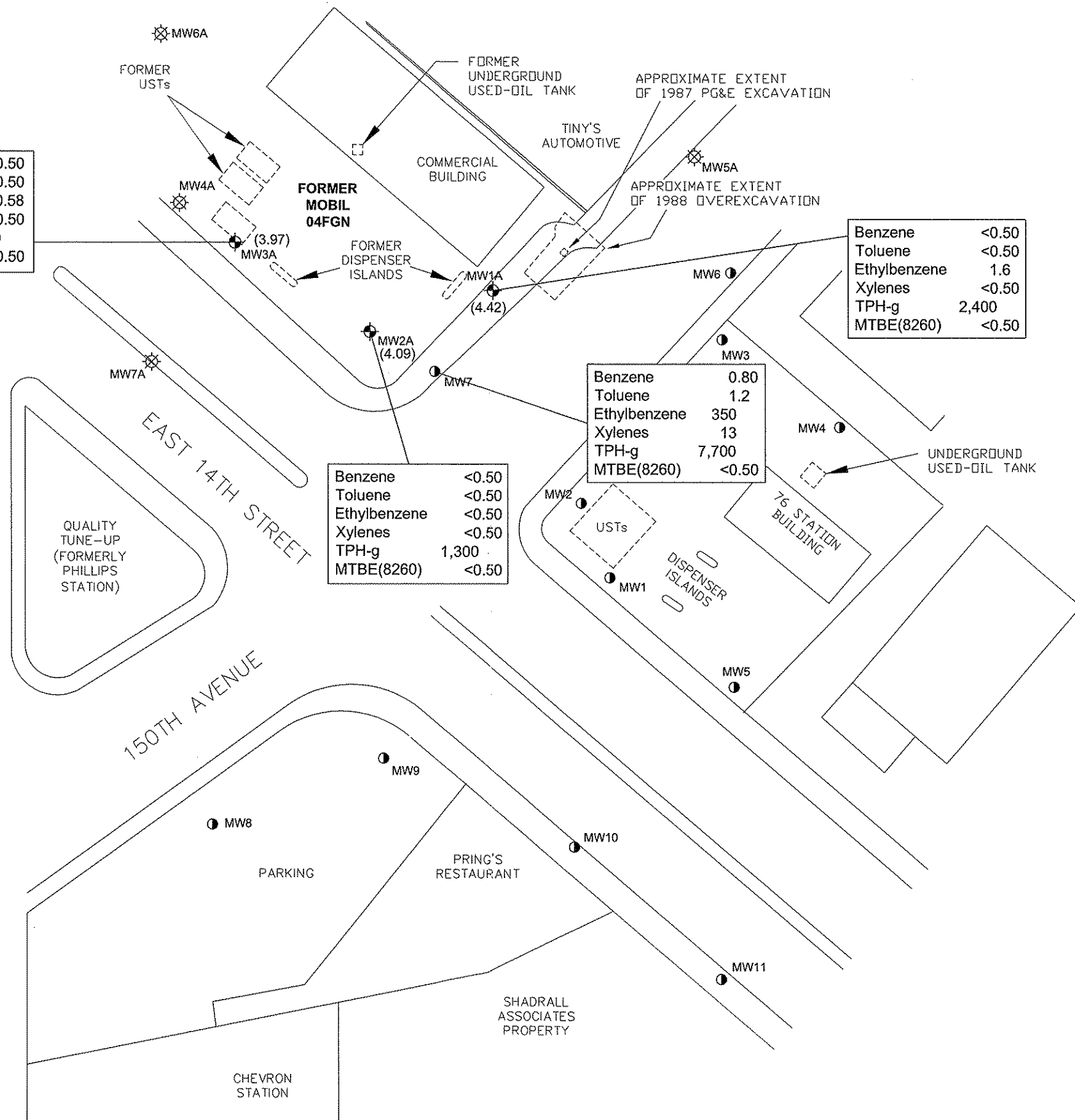
Appendix C: Laboratory Analytical Reports and Chain-of-Custody Documentation

## **Figures**



Approximate  
Groundwater Flow Direction  
Gradient = 0.0065

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	0.58
Xylenes	<0.50
TPH-g	1,500
MTBE(8260)	<0.50



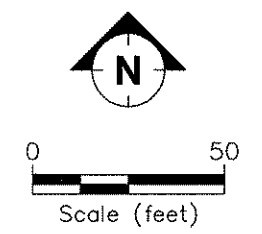
Benzene	<0.50
Toluene	<0.50
Ethylbenzene	1.6
Xylenes	<0.50
TPH-g	2,400
MTBE(8260)	<0.50

Benzene	0.80
Toluene	1.2
Ethylbenzene	350
Xylenes	13
TPH-g	7,700
MTBE(8260)	<0.50

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<0.50
TPH-g	1,300
MTBE(8260)	<0.50

LEGEND	
MW2	Mobil groundwater monitoring well
MW1	Destroyed monitoring well location
MW1	Unocal groundwater monitoring well
(4.42)	Groundwater elevation (feet)
TPH-g	Total Petroleum Hydrocarbons as gasoline
MTBE	Methyl tertiary butyl ether

NOTE:  
Concentrations in micrograms per liter (ug/L).



SITE MAP SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS  
FORMER MOBIL STATION 04FGN  
14994 EAST 14th STREET, SAN LEANDRO, CALIFORNIA  
17 DECEMBER 2008

FIGURE:  
**1**

FILENAME: 4q2008.DWG 01/05/09



## **Tables**



TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well Number	Well Installation Date	Elevation TOC (feet)	Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1A	a 03/31/88	16.34	PVC	24	19	8	2	9 - 19	0.020	8 - 19 19 - 24 <sup>c</sup>	#3 Sand
MW2A	a 02/10/94	16.12	PVC	24	24	8	2	8.5 - 24	0.010	7 - 24	#2/12 Lonestar Sand
MW3A	a 02/10/94	16.42	PVC	23	23	8	2	8 - 23	0.010	6.5 - 23	#2/12 Lonestar Sand
MW4A	b 06/01/95	--	PVC	26.5	24	11	4	9 - 24	0.010	7 - 26.5	#2/12 Lonestar Sand
MW5A	b 06/01/95	--	PVC	26.5	24	11	4	9 - 24	0.010	7 - 26.5	#2/12 Lonestar Sand
MW6A	b 06/02/95	--	PVC	26.5	24	11	4	9 - 24	0.010	7 - 26.5	#2/12 Lonestar Sand
MW7A	b 07/28/95	--	PVC	26.5	24	11	4	9 - 24	0.010	7 - 26.5	#2/12 Lonestar Sand

Notes:

- a Well resurveyed on 27 November 2001.
- b Well destroyed.
- c Depth of bentonite seal at the base of the boring.

PVC Polyvinyl chloride.

TOC Top of casing.

-- Information not available.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW1A	03/31/88	36.35	—	—	29,000	ND	ND	ND	550	640	—	—	—
MW1A	01/31/89	36.35	—	—	11,200	—	260	ND	500	500	—	—	—
MW1A	02/24/94	36.35	9.42	26.93	11,000	2,500	70	ND	260	180	—	—	—
MW1A	08/03/94	36.35	12.00	24.35	13,000	7,100	61	50	280	230	—	—	—
MW1A	11/23/94	36.35	11.18	25.17	12,000	2,500	49	ND	300	190	—	—	—
MW1A	02/28/95	36.35	9.08	27.27	10,000	3,200	25	ND	110	67	—	—	—
MW1A	05/10/95	36.35	8.33	28.02	10,000	3,600	31	ND	140	81	—	—	—
MW1A	08/02/95	36.63	9.49	27.14	10,000	3,800	24	18	130	80	—	—	—
MW1A	11/02/95	36.63	11.05	25.58	12,000	3,400 <sup>a</sup>	ND	ND	190	150	—	—	—
MW1A	02/08/96	36.63	7.55	29.08	8,000	3,600 <sup>a</sup>	100	21	87	58	—	—	—
MW1A	05/08/96	36.63	7.52	29.11	9,200	—	11	ND	120	64	—	—	—
MW1A	08/09/96	36.63	9.63	27.00	—	—	—	—	—	—	—	—	—
MW1A	08/20/96	36.63	—	—	6,800	—	64	22	100	55	130	ND	—
MW1A	11/07/96	36.63	11.01	25.62	7,900	—	100	12	70	34	95	ND	—
MW1A	02/10/97	36.63	7.58	29.05	5,800	—	36	15	67	29	58	ND	—
MW1A	05/07/97	36.63	9.15	27.48	1,400	—	13	ND	11	ND	ND	—	—
MW1A	09/10/97	36.63	10.88	25.75	7,800	—	64	ND	70	26	120	ND	—
MW1A	02/12/98	36.63	5.52	31.11	ND	—	ND	ND	ND	ND	ND	—	—
MW1A	08/12/98	36.63	8.80	27.83	500	—	41	12	1.8	20	ND	—	—
MW1A	12/10/99	36.63	10.86	25.77	1,700	—	ND	1.4	6.2	3.3	ND	—	—
MW1A	01/14/00	36.63	11.33	25.30	4,600	—	ND	30	28	ND	ND	—	—
MW1A	10/27/00	36.63	10.30	26.33	3,500	—	<10	2.6	13	6.4	18	<5	—
MW1A	01/18/01	36.63	10.45	26.18	4,500	—	<10	3.9	12	4.7	<20	—	—
MW1A	07/10/01	36.63	10.72	25.91	2,000	—	<20	18	9.6	18	<20	<2	—
MW1A	11/27/01	16.34	Well resurveyed to new reference point				—	—	—	—	—	—	—
MW1A	01/16/02	16.34	9.02	7.32	2,690	—	11.7	1.60	6.80	6.00	23.9	—	—
MW1A	07/08/02	16.34	10.43	5.91	1,570	—	12.0	11.0	<5.0	<5.0	24.0	<0.50	—
MW1A	01/23/03	16.34	8.84	7.50	2,040	—	16.5	3.5	8.70	5.90	—	<0.50	—
MW1A	07/09/03	16.34	9.97	6.37	1,440	—	8.60	1.0	7.3	5.2	13.6	<0.5	—
MW1A	01/15/04	16.34	9.39	6.95	1,640	—	0.70	5.2	4.0	2.8	—	<0.5	—
MW1A	07/07/04	16.34	10.75	5.59	2,210	—	18.7	2.9	3.7	1.5	—	<0.5	—
<b>MW1A</b>	<b>12/17/08</b>	<b>16.34</b>	<b>11.92</b>	<b>4.42</b>	<b>2,400</b>	—	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>1.6</b>	<b>&lt;0.50</b>	—	<b>&lt;0.50</b>	<b>ND</b>
MW2A	02/24/94	36.61	9.52	27.09	6,400	4,500	31	ND	58	42	—	—	—
MW2A	08/23/94	36.61	12.05	24.56	7,500	7,100	42	21	71	53	—	—	—
MW2A	11/23/94	36.61	11.25	25.36	7,000	1,800	33	11	39	ND	—	—	—
MW2A	02/28/95	36.61	9.10	27.51	9,000	1,600	29	36	96	45	—	—	—

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW2A	05/10/95	36.61	8.42	28.19	5,100	1,600	20	27	32	35	—	—	—
MW2A	08/02/95	36.62	9.54	27.08	4,300	1,800	36	ND	11	16	—	—	—
MW2A	11/02/95	36.62	11.08	25.54	4,300	3,000 <sup>a</sup>	22	ND	10	11	—	—	—
MW2A	02/08/96	36.62	7.68	28.94	2,900	940 <sup>a</sup>	32	13	13	ND	—	—	—
MW2A	05/08/96	36.62	8.64	27.98	2,500	—	13	12	19	26	—	—	—
MW2A	08/09/96	36.62	9.71	26.91	—	—	—	—	—	—	—	—	—
MW2A	08/20/96	36.62	—	—	2,500	—	19	11	6.8	8.1	36	—	—
MW2A	11/07/96	36.62	11.04	25.58	4,700	—	58	7.3	5.3	ND	55	—	—
MW2A	02/10/97	36.62	7.75	28.87	2,600	—	12	10	35	15	ND	—	—
MW2A	05/07/97	36.62	9.23	27.39	3,300	—	25	18	16	11	ND	—	—
MW2A	09/10/97	36.62	10.91	25.71	2,800	—	24	ND	ND	ND	43	—	—
MW2A	02/12/98	36.62	5.59	31.03	3,800	—	10	11	30	14	ND	—	—
MW2A	08/12/98	36.62	8.85	27.77	1,300	—	0.8	8.7	2.4	4.7	ND	—	—
MW2A	12/10/99	36.62	10.90	25.72	1,300	—	ND	2.2	ND	ND	ND	—	—
MW2A	01/14/00	36.62	11.39	25.23	2,700	—	1.3	18	2.4	ND	ND	—	—
MW2A	10/27/00	36.62	10.48	26.14	2,600	—	9.6	2.4	<5.0	<5.0	7.9	—	—
MW2A	01/18/01	36.62	10.61	26.01	3,800	—	<5.0	2.1	3.0	2.0	<10	—	—
MW2A	07/10/01	36.62	10.78	25.84	2,100	—	<10	2.6	2.8	3.4	<10	—	—
MW2A	11/27/01	16.12	Well resurveyed to new reference point										—
MW2A	01/16/02	16.12	9.11	7.01	2,500	—	9.80	5.10	6.50	9.80	16.0	—	—
MW2A	07/08/02	16.12	10.48	5.64	682	—	6.3	0.7	0.9	3.3	8.5	—	—
MW2A	01/23/03	16.12	8.94	7.18	1,180	—	8.8	3.1	4.8	5.8	—	<0.50	—
MW2A	07/09/03	16.12	10.03	6.09	1,430	—	7.80	1.5	3.1	3.4	10.5	<0.5	—
MW2A	01/15/04	16.12	9.48	6.64	1,530	—	0.50	4.8	2.2	2.9	—	<0.5	—
MW2A	07/07/04	16.12	10.80	5.32	797	—	5.70	1.3	1.7	1.1	—	<0.5	—
<b>MW2A</b>	<b>12/17/08</b>	<b>16.12</b>	<b>12.03</b>	<b>4.09</b>	<b>1,300</b>	—	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	—	<b>&lt;0.50</b>	<b>ND</b>
MW3A	02/24/94	36.92	9.85	27.07	19,000	10,000	52	30	690	290	—	—	—
MW3A	08/23/94	36.92	12.33	24.59	14,000	11,000	44	24	1,000	100	—	—	—
MW3A	11/23/94	36.92	11.56	25.36	13,000	2,600	30	18	690	52	—	—	—
MW3A	02/28/95	36.92	9.35	27.57	8,500	—	11	ND	340	24	—	—	—
MW3A	05/10/95	36.92	8.55	28.37	7,600	3,800	ND	ND	400	45	—	—	—
MW3A	08/02/95	36.93	9.75	27.18	9,200	3,800	17	13	340	34	—	—	—
MW3A	11/02/95	36.93	11.29	25.64	9,200	4,400 <sup>a</sup>	31	ND	360	72	—	—	—
MW3A	02/08/96	36.93	7.97	28.96	6,900	3,800 <sup>a</sup>	38	ND	230	43	—	—	—
MW3A	05/08/96	36.93	8.82	28.11	7,700	—	ND	ND	270	38	—	—	—
MW3A	08/09/96	36.93	9.95	26.98	—	—	—	—	—	—	—	—	—

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW3A	08/20/96	36.93	—	—	5,600	—	8.0	29	180	23	12	—	—
MW3A	11/07/96	36.93	11.28	25.65	8,600	—	47	ND	150	29	ND	—	—
MW3A	02/10/97	36.93	7.95	28.98	8,300	—	28	ND	130	23	ND	—	—
MW3A	05/07/97	36.93	9.45	27.48	37,000	—	230	110	630	ND	ND	—	—
MW3A	09/10/97	36.93	11.13	25.80	5,500	—	16	ND	75	11	ND	—	—
MW3A	02/12/98	36.93	5.72	31.21	10,000	—	37	ND	84	25	ND	—	—
MW3A	08/12/98	36.93	9.05	27.88	5,600	—	4	18	39	19	ND	—	—
MW3A	12/10/99	36.93	11.21	25.72	5,900	—	ND	3.0	22	5.0	ND	—	—
MW3A	01/14/00	36.93	11.64	25.29	6,500	—	7.5	27	37	ND	ND	—	—
MW3A	10/27/00	36.93	10.78	26.15	6,300	—	<10	3.8	17	5.6	<20	—	—
MW3A	01/18/01	36.93	10.87	26.06	7,300	—	<20	3.1	14	3.3	<10	—	—
MW3A	07/10/01	36.93	11.03	25.90	5,200	—	7.3	8.0	11	9.6	<10	—	—
MW3A	11/27/01	16.42	Well resurveyed to new reference point										—
MW3A	01/16/02	16.42	9.38	7.04	4,900	—	19.0	<5.00	16.0	14.0	28.0	<5	—
MW3A	07/08/02	16.42	10.75	5.67	2,470	—	9.1	1.8	8.8	4.1	17.5	—	—
MW3A	01/23/03	16.42	9.20	7.22	2,240	—	12.5	4.5	7.9	28.0	—	<0.50	—
MW3A	07/09/03	16.42	10.28	6.14	2,850	—	10.8	2.8	8.3	5.5	15.7	<0.5	—
MW3A	01/15/04	16.42	9.77	6.65	2,810	—	1.20	8.2	5.9	9.1	—	<0.5	—
MW3A	07/07/04	16.42	11.07	5.35	2,250	—	15.9	2.7	5.8	1.8	—	<0.5	—
<b>MW3A</b>	<b>12/17/08</b>	<b>16.42</b>	<b>12.45</b>	<b>3.97</b>	<b>1,500</b>	—	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>0.58</b>	<b>&lt;0.50</b>	—	<b>&lt;0.50</b>	<b>ND</b>
MW4A	08/02/95	37.18	9.63	27.55	ND	ND	ND	ND	ND	ND	—	—	—
MW4A	11/02/95	37.18	11.48	25.70	ND	ND	ND	ND	ND	ND	—	—	—
MW4A	02/08/96	37.18	8.18	29.00	ND	ND	ND	1.1	ND	0.92	—	—	—
MW4A	05/08/96	37.18	8.49	28.69	ND	—	ND	ND	ND	ND	—	—	—
MW4A	08/09/96	37.18	10.05	27.13	—	—	—	—	—	—	—	—	—
MW4A	08/20/96	37.18	—	—	ND	—	ND	ND	ND	ND	ND	—	—
MW4A	11/07/96	37.18	11.48	25.70	ND	—	ND	ND	ND	0.88	ND	—	—
MW4A	02/10/97	37.18	8.11	29.07	ND	—	ND	2.4	ND	ND	ND	—	—
MW4A	05/07/97	37.18	9.64	27.54	ND	—	ND	ND	ND	ND	ND	—	—
MW4A	09/10/97	37.18	11.32	25.86	—	—	—	—	—	—	—	—	—
MW4A	02/12/98	37.18	5.90	31.28	ND	—	ND	ND	ND	ND	ND	—	—
MW4A	08/12/98	37.18	9.21	27.97	—	—	—	—	—	—	—	—	—
MW4A	12/10/99	37.18	11.46	25.72	ND	—	ND	0.39	ND	0.95	ND	—	—
MW4A	03/09/00	Well destroyed											
MW5A	08/02/95	35.91	8.74	27.17	1,300	220	16	0.68	1.3	4.3	—	—	—
MW5A	11/02/95	35.91	10.34	25.57	180	ND	1.9	1.2	ND	ND	—	—	—

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW5A	02/08/96	35.91	6.67	29.24	160	150	1.9	2.2	ND	0.89	—	—	—
MW5A	05/08/96	35.91	7.35	28.56	260	—	2.4	6.7	2.0	9.6	—	—	—
MW5A	08/09/96	35.91	8.81	27.10	—	—	—	—	—	—	—	—	—
MW5A	08/20/96	35.91	—	—	ND	—	ND	1.8	ND	ND	9.4	—	—
MW5A	11/07/96	35.91	10.25	25.66	—	—	—	—	—	—	—	—	—
MW5A	02/10/97	35.91	6.93	28.98	ND	—	ND	1.2	ND	ND	ND	—	—
MW5A	05/07/97	35.91	8.42	27.49	—	—	—	—	—	—	—	—	—
MW5A	09/10/97	35.91	10.15	25.76	—	—	—	—	—	—	—	—	—
MW5A	02/12/98	35.91	5.32	30.59	ND	—	ND	ND	ND	ND	ND	—	—
MW5A	08/12/98	35.91	8.19	27.72	—	—	—	—	—	—	—	—	—
MW5A	12/10/99	35.91	10.10	25.81	ND	—	ND	ND	ND	ND	ND	—	—
MW5A	03/09/00	Well destroyed											
MW6A	08/02/95	37.10	9.68	27.42	ND	ND	ND	ND	ND	ND	—	—	—
MW6A	11/02/95	37.10	11.26	25.84	ND	ND	ND	ND	ND	ND	—	—	—
MW6A	02/08/96	37.10	7.79	29.31	ND	ND	ND	1.3	ND	1.3	—	—	—
MW6A	05/08/96	37.10	8.38	28.72	ND	—	ND	1.6	ND	1.2	—	—	—
MW6A	08/09/96	37.10	9.82	27.28	—	—	—	—	—	—	—	—	—
MW6A	08/20/96	37.10	—	—	ND	—	ND	ND	ND	ND	ND	—	—
MW6A	11/07/96	37.10	11.02	26.08	—	—	—	—	—	—	—	—	—
MW6A	02/10/97	37.10	7.70	29.40	ND	—	ND	3.4	ND	ND	ND	—	—
MW6A	05/07/97	37.10	9.31	27.79	—	—	—	—	—	—	—	—	—
MW6A	09/10/97	37.10	11.08	26.02	—	—	—	—	—	—	—	—	—
MW6A	02/12/98	37.10	5.52	31.58	ND	—	ND	ND	ND	ND	ND	—	—
MW6A	08/12/98	37.10	8.91	28.19	—	—	—	—	—	—	—	—	—
MW6A	12/10/99	37.10	11.24	25.86	ND	—	ND	0.32	ND	ND	ND	—	—
MW6A	03/09/00	Well destroyed											
MW7A	11/02/95	37.39	11.77	25.62	ND	ND	ND	ND	ND	ND	—	—	—
MW7A	02/08/96	37.39	8.68	28.71	ND	75	ND	1.4	ND	1.5	—	—	—
MW7A	05/08/96	37.39	9.00	28.39	ND	—	2.2	6.3	1.4	7.9	—	—	—
MW7A	08/09/96	37.39	10.31	27.08	—	—	—	—	—	—	—	—	—
MW7A	08/20/96	37.39	—	—	ND	—	ND	ND	ND	ND	ND	—	—
MW7A	11/07/96	37.39	11.81	25.58	ND	—	ND	0.96	ND	1.6	ND	—	—
MW7A	02/10/97	37.39	8.57	28.82	ND	—	ND	2.4	ND	ND	ND	—	—
MW7A	05/07/97	37.39	10.05	27.34	ND	—	ND	ND	ND	ND	ND	—	—
MW7A	09/10/97	37.39	11.66	25.73	ND	—	ND	ND	ND	ND	ND	—	—
MW7A	02/12/98	37.39	6.55	30.84	ND	—	ND	ND	ND	ND	ND	—	—

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	TOC Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentrations (µg/L)								
					TPH-g	TPH-d	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE (8020 or 8021)	MTBE (8240 or 8260)	VOCs (8260)
MW7A	08/12/98	37.39	9.65	27.74	ND	—	0.5	ND	ND	ND	ND	—	—
MW7A	12/10/99	37.39	11.80	25.59	ND	—	ND	ND	ND	ND	ND	—	—
MW7A	03/09/00	Well destroyed											
<b>MW-7</b>	<b>12/17/08</b>	—	—	—	<b>7,700</b>	—	<b>0.80</b>	<b>1.2</b>	<b>350</b>	<b>13</b>	—	<b>&lt;0.50</b>	<b>ND</b>

Notes: Well MW-7 was installed for the 76 Station site located to the southeast.

a Unidentified hydrocarbons <C10

MTBE Methyl tertiary butyl ether.

ND Not detected at or above laboratory reporting limit.

TOC Top of casing.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-g Total Petroleum Hydrocarbons as gasoline.

VOCs Volatile organic compounds including tetrachlorethene, trichlorethene, and 1,2-dichloroethene.

µg/L Micrograms per liter.

— Not analyzed or not provided.

TABLE 3 GROUNDWATER ANALYTICAL RESULTS FOR OXYGENATES AND ADDITIVES,  
FORMER MOBIL STATION 04FGN, 14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well ID	Date	Concentrations (µg/L)						
		Tertiary butyl alcohol	Methyl tertiary butyl ether	Diisopropyl ether	Ethyl tertiary butyl ether	Tertiary amyl methyl ether	1,2-Dichloroethane	1,2-Dibromoethane
MW1A	08/20/96	--	ND	--	--	--	--	--
MW1A	11/07/96	--	ND	--	--	--	--	--
MW1A	02/10/97	--	ND	--	--	--	--	--
MW1A	09/10/97	--	ND	--	--	--	--	--
MW1A	10/27/00	--	<5	--	--	--	--	--
MW1A	07/10/01	--	<2	--	--	--	--	--
MW1A	07/08/02	--	<0.50	--	--	--	--	--
MW1A	01/23/03	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW1A	01/15/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW1A	07/07/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<b>MW1A</b>	<b>12/17/08</b>	<b>&lt;20</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
MW2A	01/23/03	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2A	01/15/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW2A	07/07/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<b>MW2A</b>	<b>12/17/08</b>	<b>&lt;20</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
MW3A	01/16/02	--	<5	--	--	--	--	--
MW3A	01/23/03	<10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
MW3A	01/15/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW3A	07/07/04	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
<b>MW3A</b>	<b>12/17/08</b>	<b>&lt;20</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>
<b>MW-7</b>	<b>12/17/08</b>	<b>&lt;20</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>	<b>&lt;0.50</b>

Notes: Well MW-7 was installed for the 76 Station site located to the southeast.

ND Not detected at or above laboratory reporting limit.

-- Not analyzed or not provided.

µg/L Micrograms per liter.

TABLE 4 GROUNDWATER MONITORING PLAN, FORMER MOBIL STATION 04FGN,  
14994 EAST 14TH STREET, SAN LEANDRO, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		BTEX and TPH-g	MTBE	Oxygenates and Additives
MW1A	Q	Q	Q	Q
MW2A	Q	Q	Q	Q
MW3A	Q	Q	Q	Q

Notes: Oxygenates and additives include diisopropyl ether, tertiary butyl alcohol, tertiary amyl methyl ether, ethyl tertiary butyl ether, 1,2-dibromoethane, and 1,2-dichloroethane.

BTEX Benzene, toluene, ethylbenzene, and xylenes.

MTBE Methyl tertiary butyl ether.

Q Quarterly.

TPH-g Total Petroleum Hydrocarbons as gasoline.



**Appendix A**  
**Field Protocols**

## **PROTOCOLS FOR QUARTERLY GROUNDWATER MONITORING**

### **GROUNDWATER GAUGING**

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered "functionally dry." Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

### **WELL PURGING**

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

### **GROUNDWATER SAMPLING**

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler's initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

**Appendix B**  
**Field Documents**



# WELL DEVELOPMENT FORM

Project location: 14994 East 14th Street, San Leandro

Well No: MWIA

Date: 12/17/08

Project No: UP04FGN.1.12

Personnel: TBI ALDER

### GAUGING DATA

Water Level Measuring Method:

Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
				1	2	4	6		
...	18.50	11.92	6.58	1	2	4	6	1.05	10.50
				0.04	0.16	0.64	1.44		

### PURGING DATA

Purge Method: WET PRR

Purge Depth: \_\_\_\_\_

Time	08:51	08:53	08:55	08:57	08:59	09:01	09:03	09:05	09:07	09:09		
Volume Purge (gal)	1.50	3.00	4.50	6.00	7.50	9.00	10.50	12.00	13.50	15.00		
Temperature ( )	17.1	18.7	19.5	19.6	19.8	19.9	20.1	20.3	20.0	19.9		
pH	6.62	6.73	6.93	7.00	7.05	7.04	7.08	7.13	7.16	7.14		
Conductivity (us/cm)	660	698	721	731	729	730	726	720	726	723		
Color	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY		
Turbidity	SLTY	SLTY	SLTY	SLTY	SLTY	SLTY	SLTY	SLTY	SLTY	SLTY		
Odor (Y/N)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES		
Casing Volumes	1	2	3	4	5	6	7	8	9	10		
Dewatered (Y/N)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE		

Comments/Observations:

Total Purge Volume: 15 (gallons)

Disposal:

Weather Conditions: OK

Condition of Well Box and Casing: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging: NONE

Comments:



# WELL DEVELOPMENT FORM

Project location: 14994 East 14th Street, San Leandro

Well No: MW2A

Date: 12-17-08

Project No: UP04FGN.1.12

Personnel: TRINDER

### GAUGING DATA

Water Level Measuring Method:

Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
				1	2	4	6		
...	24.70	12.03	12.67	1	2	4	6	2.02	20.20
				0.04	0.16	0.64	1.44		

### PURGING DATA

Purge Method: WATE RRA

Purge Depth: \_\_\_\_\_

Time	0959	1002	1005	1008	1011	1014	1017	1020	1023	1024		
Volume Purge (gal)	2.50	5.00	7.50	10.00	12.50	15.00	17.50	20.00	22.50	25.00		
Temperature ( )	20.7	21.3	21.5	21.4	21.5	21.6	21.7	21.5	21.4	21.0		
pH	6.90	6.92	6.93	6.94	6.93	6.94	6.93	6.92	6.90	6.89		
Conductivity (us/cm)	778	775	769	771	772	775	772	767	764	762		
Color	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY		
Turbidity	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY		
Odor (Y/N)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE		
Casing Volumes	1	2	3	4	5	6	7	8	9	10		
Dewatered (Y/N)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE		

Comments/Observations:

Total Purge Volume: 25 (gallons)

Disposal: \_\_\_\_\_

Weather Conditions: OK

Condition of Well Box and Casing: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging: NONE

Comments:



# WELL DEVELOPMENT FORM

Project location: 14994 East 14th Street, San Leandro

Well No: MW3A

Date: 12/17/08

Project No: UP04FGN.1.12

Personnel: BANDER

### GAUGING DATA

Water Level Measuring Method:

Measuring Point Description:

WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter				Casing Volume (gal)	Total Purge Volume (gal)
				1	2	4	6		
...	22.45	19.45	10.00	1	2	4	6	1.60	16.00
				0.04	0.16	0.64	1.44		

### PURGING DATA

Purge Method: WETERRA

Purge Depth: \_\_\_\_\_

Time	1101	1104	1106	1108	1110	1112	1115	1117	1119	1122		
Volume Purge (gal)	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00		
Temperature (°)	17.9	20.6	21.0	21.1	20.9	21.3	21.1	21.4	21.3	21.6		
pH	7.20	6.91	6.90	6.93	6.92	6.93	7.08	6.99	6.95	6.92		
Conductivity (us/cm)	852	848	846	837	846	830	854	837	848	841		
Color	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY	GREY		
Turbidity	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY	SILTY		
Odor (Y/N)	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES		
Casing Volumes	1	2	3	4	5	6	7	8	9	10		
Dewatered (Y/N)	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE	NONE		

Comments/Observations:

Total Purge Volume: 20 (gallons)

Disposal:

Weather Conditions: OK

Condition of Well Box and Casing: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging: NONE

Comments:

## **Appendix C**

### **Laboratory Analytical Report and Chain-of-Custody Documentation**

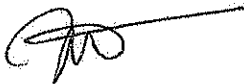
29 December, 2008

Bryan Campbell  
ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill, CA 94523

RE: Exxon 04-FGN  
Work Order: MRL0522

Enclosed are the results of analyses for samples received by the laboratory on 12/17/08 18:20. The samples arrived at a temperature of 1° C. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Megan Tran  
VOA

CA ELAP Certificate #2682



ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW1A	MRL0522-01	Water	12/17/08 09:15	12/17/08 18:20
MW2A	MRL0522-02	Water	12/17/08 10:35	12/17/08 18:20
MW3A	MRL0522-03	Water	12/17/08 11:30	12/17/08 18:20
MW-7	MRL0522-04	Water	12/17/08 12:07	12/17/08 18:20

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Purgeable Hydrocarbons by EPA 8015B

### TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW1A (MRL0522-01) Water Sampled: 12/17/08 09:15 Received: 12/17/08 18:20</b>									
Gasoline Range Organics (C4-C12)	2400	1000	ug/l	20	8L24001	12/24/08	12/24/08	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		107 %	75-125		"	"	"	"	
<b>MW2A (MRL0522-02) Water Sampled: 12/17/08 10:35 Received: 12/17/08 18:20</b>									
Gasoline Range Organics (C4-C12)	1300	250	ug/l	5	8L24001	12/24/08	12/24/08	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		"	"	"	"	
<b>MW3A (MRL0522-03) Water Sampled: 12/17/08 11:30 Received: 12/17/08 18:20</b>									
Gasoline Range Organics (C4-C12)	1500	250	ug/l	5	8L24001	12/24/08	12/24/08	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		120 %	75-125		"	"	"	"	
<b>MW-7 (MRL0522-04) Water Sampled: 12/17/08 12:07 Received: 12/17/08 18:20</b>									
Gasoline Range Organics (C4-C12)	7700	1200	ug/l	25	8L24001	12/24/08	12/24/08	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		109 %	75-125		"	"	"	"	

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Volatile Organic Compounds by EPA Method 8260B TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW1A (MRL0522-01) Water Sampled: 12/17/08 09:15 Received: 12/17/08 18:20</b>									
Benzene	ND	0.50	ug/l	1	8L19002	12/19/08	12/19/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	1.6	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	80-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	70-120		"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	80-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	70-120		"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		101 %	80-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		107 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		104 %	70-120		"	"	"	"	

ETIC Engineering Inc - Pleasant Hill (Exxon) 2285 Morello Avenue Pleasant Hill CA, 94523	Project: Exxon 04-FGN Project Number: 04-FGN Project Manager: Bryan Campbell	MRL0522 Reported: 12/29/08 13:50
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## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW2A (MRL0522-02) Water Sampled: 12/17/08 10:35 Received: 12/17/08 18:20</b>									
Benzene	ND	0.50	ug/l	1	8L19002	12/19/08	12/19/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	80-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	70-120		"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		100 %	80-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		105 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		106 %	70-120		"	"	"	"	
<b>MW3A (MRL0522-03) Water Sampled: 12/17/08 11:30 Received: 12/17/08 18:20</b>									
Benzene	ND	0.50	ug/l	1	8L19002	12/19/08	12/19/08	EPA 8260B	
Toluene	ND	0.50	"	"	"	"	"	"	
<b>Ethylbenzene</b>	<b>0.58</b>	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	80-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	75-130		"	"	"	"	
<i>Surrogate: Toluene-d8</i>		97 %	80-120		"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		101 %	70-120		"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	"	"	"	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		102 %	80-120		"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		109 %	75-130		"	"	"	"	

TestAmerica Morgan Hill

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ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Volatile Organic Compounds by EPA Method 8260B

### TestAmerica Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW3A (MRL0522-03) Water</b> Sampled: 12/17/08 11:30 Received: 12/17/08 18:20									
Surrogate: Toluene-d8		97 %	80-120		8L19002	12/19/08	12/19/08	EPA 8260B	
Surrogate: 4-Bromofluorobenzene		101 %	70-120		"	"	"	"	
<b>MW-7 (MRL0522-04) Water</b> Sampled: 12/17/08 12:07 Received: 12/17/08 18:20									
Ethylbenzene	350	10	ug/l	20	8L19002	12/19/08	12/19/08	EPA 8260B	
Surrogate: Dibromofluoromethane		101 %	80-120		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		96 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		93 %	70-120		"	"	"	"	
tert-Amyl methyl ether	ND	0.50	"	"	8L24003	12/24/08	12/24/08	"	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		117 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		96 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	70-120		"	"	"	"	
trans-1,2-Dichloroethene	ND	0.50	"	"	"	"	"	"	
Tetrachloroethene	ND	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		106 %	80-120		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		117 %	75-130		"	"	"	"	
Surrogate: Toluene-d8		96 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		99 %	70-120		"	"	"	"	

ETIC Engineering Inc - Pleasant Hill (Exxon) 2285 Morello Avenue Pleasant Hill CA, 94523	Project: Exxon 04-FGN Project Number: 04-FGN Project Manager: Bryan Campbell	MRL0522 <b>Reported:</b> 12/29/08 13:50
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**Volatile Organic Compounds by EPA Method 8260B**  
**TestAmerica Morgan Hill**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

**MW-7 (MRL0522-04RE1) Water**    **Sampled: 12/17/08 12:07**    **Received: 12/17/08 18:20**

<b>Benzene</b>	<b>0.80</b>	0.50	ug/l	1	8L24003	12/24/08	12/24/08	EPA 8260B	
<b>Toluene</b>	<b>1.2</b>	0.50	"	"	"	"	"	"	
<b>Xylenes (total)</b>	<b>13</b>	0.50	"	"	"	"	"	"	
<i>Surrogate: Dibromofluoromethane</i>		106 %		80-120	"	"	"	"	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		117 %		75-130	"	"	"	"	
<i>Surrogate: Toluene-d8</i>		96 %		80-120	"	"	"	"	
<i>Surrogate: 4-Bromofluorobenzene</i>		99 %		70-120	"	"	"	"	

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Purgeable Hydrocarbons by EPA 8015B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 8L23010 - EPA 5030B [P/T]</b>										
<b>Blank (8L23010-BLK1)</b> Prepared & Analyzed: 12/23/08										
Gasoline Range Organics (C4-C12)	ND	25	ug/l							
Surrogate: 4-Bromofluorobenzene	49.8		"	40.0		125	75-125			
<b>Batch 8L24001 - EPA 5030B [P/T]</b>										
<b>Blank (8L24001-BLK1)</b> Prepared & Analyzed: 12/24/08										
Gasoline Range Organics (C4-C12)	ND	25	ug/l							
Surrogate: 4-Bromofluorobenzene	47.1		"	40.0		118	75-125			
<b>LCS (8L24001-BS2)</b> Prepared & Analyzed: 12/24/08										
Gasoline Range Organics (C4-C12)	243	50	ug/l	250		97	70-130			
Surrogate: 4-Bromofluorobenzene	47.3		"	40.0		118	75-125			
<b>Matrix Spike (8L24001-MS1)</b> Source: MRL0522-01 Prepared & Analyzed: 12/24/08										
Gasoline Range Organics (C4-C12)	6950	1000	ug/l	5000	2400	91	70-130			
Surrogate: 4-Bromofluorobenzene	46.8		"	40.0		117	75-125			
<b>Matrix Spike Dup (8L24001-MSD1)</b> Source: MRL0522-01 Prepared & Analyzed: 12/24/08										
Gasoline Range Organics (C4-C12)	7160	1000	ug/l	5000	2400	95	70-130	3	25	
Surrogate: 4-Bromofluorobenzene	47.3		"	40.0		118	75-125			

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 8L19002 - EPA 5030B P/T

#### Blank (8L19002-BLK1)

Prepared & Analyzed: 12/19/08

tert-Amyl methyl ether	ND	0.25	ug/l							
tert-Butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	0.25	"							
Benzene	ND	0.25	"							
1,2-Dibromoethane (EDB)	ND	0.25	"							
1,2-Dichloroethane	ND	0.25	"							
Toluene	ND	0.25	"							
trans-1,2-Dichloroethene	ND	0.25	"							
Ethylbenzene	ND	0.25	"							
Ethyl tert-butyl ether	ND	0.25	"							
Methyl tert-butyl ether	ND	0.25	"							
Tetrachloroethene	ND	0.25	"							
Trichloroethene	ND	0.25	"							
Xylenes (total)	ND	0.25	"							

Surrogate: Dibromofluoromethane	7.60		"	7.50		101	80-120			
Surrogate: 1,2-Dichloroethane-d4	8.01		"	7.50		107	75-130			
Surrogate: Toluene-d8	7.04		"	7.50		94	80-120			
Surrogate: 4-Bromofluorobenzene	6.84		"	7.50		91	70-120			
Surrogate: Dibromofluoromethane	7.60		"	7.50		101	80-120			
Surrogate: Dibromofluoromethane	7.60		"	7.50		101	80-120			
Surrogate: 1,2-Dichloroethane-d4	8.01		"	7.50		107	75-130			
Surrogate: 1,2-Dichloroethane-d4	8.01		"	7.50		107	75-130			
Surrogate: Toluene-d8	7.04		"	7.50		94	80-120			
Surrogate: Toluene-d8	7.04		"	7.50		94	80-120			
Surrogate: 4-Bromofluorobenzene	6.84		"	7.50		91	70-120			
Surrogate: 4-Bromofluorobenzene	6.84		"	7.50		91	70-120			

#### LCS (8L19002-BS1)

Prepared & Analyzed: 12/19/08

tert-Amyl methyl ether	11.1	0.50	ug/l	10.0		111	70-130			
tert-Butyl alcohol	198	20	"	200		99	70-130			
Di-isopropyl ether	9.63	0.50	"	10.0		96	70-130			
Benzene	9.65	0.50	"	10.0		96	70-130			

TestAmerica Morgan Hill

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ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 8L19002 - EPA 5030B P/T

#### LCS (8L19002-BS1)

Prepared & Analyzed: 12/19/08

1,2-Dibromoethane (EDB)	10.9	0.50	ug/l	10.0		109	70-130			
1,2-Dichloroethane	11.4	0.50	"	10.0		114	70-130			
Toluene	9.84	0.50	"	10.0		98	70-130			
trans-1,2-Dichloroethene	10.2	0.50	"	10.0		102	70-130			
Ethylbenzene	10.2	0.50	"	10.0		102	70-130			
Ethyl tert-butyl ether	10.4	0.50	"	10.0		104	70-130			
Methyl tert-butyl ether	11.0	0.50	"	10.0		110	70-130			
Tetrachloroethene	11.4	0.50	"	10.0		114	70-130			
Trichloroethene	10.9	0.50	"	10.0		109	70-130			
Xylenes (total)	30.6	0.50	"	30.0		102	70-130			
<i>Surrogate: Dibromofluoromethane</i>	7.85		"	7.50		105	80-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	8.00		"	7.50		107	75-130			
<i>Surrogate: Toluene-d8</i>	7.22		"	7.50		96	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	7.26		"	7.50		97	70-120			
<i>Surrogate: Dibromofluoromethane</i>	7.85		"	7.50		105	80-120			
<i>Surrogate: Dibromofluoromethane</i>	7.85		"	7.50		105	80-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	8.00		"	7.50		107	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	8.00		"	7.50		107	75-130			
<i>Surrogate: Toluene-d8</i>	7.22		"	7.50		96	80-120			
<i>Surrogate: Toluene-d8</i>	7.22		"	7.50		96	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	7.26		"	7.50		97	70-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	7.26		"	7.50		97	70-120			

#### Matrix Spike (8L19002-MS1)

Source: MRL0522-02

Prepared & Analyzed: 12/19/08

tert-Amyl methyl ether	11.5	0.50	ug/l	10.0	ND	115	70-130			
tert-Butyl alcohol	198	20	"	200	ND	99	70-130			
Di-isopropyl ether	9.68	0.50	"	10.0	ND	97	70-130			
Benzene	9.43	0.50	"	10.0	ND	94	70-130			
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0	ND	112	70-130			
1,2-Dichloroethane	11.0	0.50	"	10.0	ND	110	70-130			
Toluene	10.0	0.50	"	10.0	0.190	98	70-130			
trans-1,2-Dichloroethene	9.91	0.50	"	10.0	ND	99	70-130			

TestAmerica Morgan Hill

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ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 8L19002 - EPA 5030B P/T

#### Matrix Spike (8L19002-MS1)

Source: MRL0522-02

Prepared & Analyzed: 12/19/08

Ethylbenzene	10.4	0.50	ug/l	10.0	0.460	100	70-130			
Ethyl tert-butyl ether	10.5	0.50	"	10.0	ND	105	70-130			
Methyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	70-130			
Tetrachloroethene	11.1	0.50	"	10.0	ND	111	70-130			
Trichloroethene	10.7	0.50	"	10.0	ND	107	70-130			
Xylenes (total)	30.1	0.50	"	30.0	ND	100	70-130			

Surrogate: Dibromofluoromethane

7.58

"

7.50

101

80-120

Surrogate: 1,2-Dichloroethane-d4

7.75

"

7.50

103

75-130

Surrogate: Toluene-d8

7.29

"

7.50

97

80-120

Surrogate: 4-Bromofluorobenzene

7.79

"

7.50

104

70-120

Surrogate: Dibromofluoromethane

7.58

"

7.50

101

80-120

Surrogate: Dibromofluoromethane

7.58

"

7.50

101

80-120

Surrogate: 1,2-Dichloroethane-d4

7.75

"

7.50

103

75-130

Surrogate: 1,2-Dichloroethane-d4

7.75

"

7.50

103

75-130

Surrogate: Toluene-d8

7.29

"

7.50

97

80-120

Surrogate: Toluene-d8

7.29

"

7.50

97

80-120

Surrogate: 4-Bromofluorobenzene

7.79

"

7.50

104

70-120

Surrogate: 4-Bromofluorobenzene

7.79

"

7.50

104

70-120

#### Matrix Spike Dup (8L19002-MSD1)

Source: MRL0522-02

Prepared & Analyzed: 12/19/08

tert-Amyl methyl ether	12.0	0.50	ug/l	10.0	ND	120	70-130	4	25	
tert-Butyl alcohol	202	20	"	200	ND	101	70-130	2	25	
Di-isopropyl ether	9.91	0.50	"	10.0	ND	99	70-130	2	25	
Benzene	9.49	0.50	"	10.0	ND	95	70-130	0.6	25	
1,2-Dibromoethane (EDB)	11.9	0.50	"	10.0	ND	119	70-130	6	25	
1,2-Dichloroethane	11.4	0.50	"	10.0	ND	114	70-130	3	25	
Toluene	10.1	0.50	"	10.0	0.190	99	70-130	0.8	25	
trans-1,2-Dichloroethene	10.0	0.50	"	10.0	ND	100	70-130	1	25	
Ethylbenzene	10.4	0.50	"	10.0	0.460	99	70-130	0.4	25	
Ethyl tert-butyl ether	11.1	0.50	"	10.0	ND	111	70-130	5	25	
Methyl tert-butyl ether	11.8	0.50	"	10.0	ND	118	70-130	7	25	
Tetrachloroethene	11.1	0.50	"	10.0	ND	111	70-130	0.2	25	

TestAmerica Morgan Hill

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ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 8L19002 - EPA 5030B P/T

#### Matrix Spike Dup (8L19002-MSD1)

Source: MRL0522-02

Prepared & Analyzed: 12/19/08

Trichloroethene	10.8	0.50	ug/l	10.0	ND	108	70-130	0.9	25	
Xylenes (total)	30.3	0.50	"	30.0	ND	101	70-130	0.6	25	
Surrogate: Dibromofluoromethane	7.88		"	7.50		105	80-120			
Surrogate: 1,2-Dichloroethane-d4	7.99		"	7.50		107	75-130			
Surrogate: Toluene-d8	7.30		"	7.50		97	80-120			
Surrogate: 4-Bromofluorobenzene	7.77		"	7.50		104	70-120			
Surrogate: Dibromofluoromethane	7.88		"	7.50		105	80-120			
Surrogate: Dibromofluoromethane	7.88		"	7.50		105	80-120			
Surrogate: 1,2-Dichloroethane-d4	7.99		"	7.50		107	75-130			
Surrogate: 1,2-Dichloroethane-d4	7.99		"	7.50		107	75-130			
Surrogate: Toluene-d8	7.30		"	7.50		97	80-120			
Surrogate: Toluene-d8	7.30		"	7.50		97	80-120			
Surrogate: 4-Bromofluorobenzene	7.77		"	7.50		104	70-120			
Surrogate: 4-Bromofluorobenzene	7.77		"	7.50		104	70-120			

### Batch 8L24003 - EPA 5030B P/T

#### Blank (8L24003-BLK1)

Prepared & Analyzed: 12/24/08

tert-Amyl methyl ether	ND	0.25	ug/l							
tert-Butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	0.25	"							
Benzene	ND	0.25	"							
1,2-Dibromoethane (EDB)	ND	0.25	"							
1,2-Dichloroethane	ND	0.25	"							
Toluene	ND	0.25	"							
trans-1,2-Dichloroethene	ND	0.25	"							
Ethylbenzene	ND	0.25	"							
Ethyl tert-butyl ether	ND	0.25	"							
Methyl tert-butyl ether	ND	0.25	"							
Tetrachloroethene	ND	0.25	"							
Trichloroethene	ND	0.25	"							
Xylenes (total)	ND	0.25	"							
Surrogate: Dibromofluoromethane	7.67		"	7.50		102	80-120			

TestAmerica Morgan Hill

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ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 8L24003 - EPA 5030B P/T

#### Blank (8L24003-BLK1)

Prepared & Analyzed: 12/24/08

Surrogate: 1,2-Dichloroethane-d4	8.20		ug/l	7.50		109	75-130			
Surrogate: Toluene-d8	7.10		"	7.50		95	80-120			
Surrogate: 4-Bromofluorobenzene	7.02		"	7.50		94	70-120			
Surrogate: Dibromofluoromethane	7.67		"	7.50		102	80-120			
Surrogate: Dibromofluoromethane	7.67		"	7.50		102	80-120			
Surrogate: 1,2-Dichloroethane-d4	8.20		"	7.50		109	75-130			
Surrogate: 1,2-Dichloroethane-d4	8.20		"	7.50		109	75-130			
Surrogate: Toluene-d8	7.10		"	7.50		95	80-120			
Surrogate: Toluene-d8	7.10		"	7.50		95	80-120			
Surrogate: 4-Bromofluorobenzene	7.02		"	7.50		94	70-120			
Surrogate: 4-Bromofluorobenzene	7.02		"	7.50		94	70-120			

#### LCS (8L24003-BS1)

Prepared & Analyzed: 12/24/08

tert-Amyl methyl ether	11.3	0.50	ug/l	10.0		113	70-130			
tert-Butyl alcohol	194	20	"	200		97	70-130			
Di-isopropyl ether	9.65	0.50	"	10.0		96	70-130			
Benzene	9.53	0.50	"	10.0		95	70-130			
1,2-Dibromoethane (EDB)	11.2	0.50	"	10.0		112	70-130			
1,2-Dichloroethane	11.7	0.50	"	10.0		117	70-130			
Toluene	9.71	0.50	"	10.0		97	70-130			
trans-1,2-Dichloroethene	10.2	0.50	"	10.0		102	70-130			
Ethylbenzene	9.81	0.50	"	10.0		98	70-130			
Ethyl tert-butyl ether	10.5	0.50	"	10.0		105	70-130			
Methyl tert-butyl ether	11.1	0.50	"	10.0		111	70-130			
Tetrachloroethene	11.2	0.50	"	10.0		112	70-130			
Trichloroethene	10.8	0.50	"	10.0		108	70-130			
Xylenes (total)	29.8	0.50	"	30.0		99	70-130			
Surrogate: Dibromofluoromethane	7.99		"	7.50		107	80-120			
Surrogate: 1,2-Dichloroethane-d4	8.43		"	7.50		112	75-130			
Surrogate: Toluene-d8	7.28		"	7.50		97	80-120			
Surrogate: 4-Bromofluorobenzene	7.24		"	7.50		97	70-120			
Surrogate: Dibromofluoromethane	7.99		"	7.50		107	80-120			
Surrogate: Dibromofluoromethane	7.99		"	7.50		107	80-120			

TestAmerica Morgan Hill

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ETIC Engineering Inc - Pleasant Hill (Exxon) 2285 Morello Avenue Pleasant Hill CA, 94523	Project: Exxon 04-FGN Project Number: 04-FGN Project Manager: Bryan Campbell	MRL0522 Reported: 12/29/08 13:50
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## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 8L24003 - EPA 5030B P/T

#### LCS (8L24003-BS1)

Prepared & Analyzed: 12/24/08

Surrogate: 1,2-Dichloroethane-d4	8.43		ug/l	7.50		112	75-130			
Surrogate: 1,2-Dichloroethane-d4	8.43		"	7.50		112	75-130			
Surrogate: Toluene-d8	7.28		"	7.50		97	80-120			
Surrogate: Toluene-d8	7.28		"	7.50		97	80-120			
Surrogate: 4-Bromofluorobenzene	7.24		"	7.50		97	70-120			
Surrogate: 4-Bromofluorobenzene	7.24		"	7.50		97	70-120			

#### Matrix Spike (8L24003-MS1)

Source: MRL0589-01

Prepared & Analyzed: 12/24/08

tert-Amyl methyl ether	11.8	0.50	ug/l	10.0	ND	118	70-130			
tert-Butyl alcohol	200	20	"	200	ND	100	70-130			
Di-isopropyl ether	9.86	0.50	"	10.0	ND	99	70-130			
Benzene	9.88	0.50	"	10.0	0.170	97	70-130			
1,2-Dibromoethane (EDB)	11.7	0.50	"	10.0	ND	117	70-130			
1,2-Dichloroethane	12.7	0.50	"	10.0	0.480	122	70-130			
Toluene	10.0	0.50	"	10.0	0.130	99	70-130			
trans-1,2-Dichloroethene	10.4	0.50	"	10.0	ND	104	70-130			
Ethylbenzene	10.2	0.50	"	10.0	0.0900	101	70-130			
Ethyl tert-butyl ether	11.0	0.50	"	10.0	ND	110	70-130			
Methyl tert-butyl ether	13.0	0.50	"	10.0	1.45	115	70-130			
Tetrachloroethene	11.3	0.50	"	10.0	ND	113	70-130			
Trichloroethene	10.9	0.50	"	10.0	ND	109	70-130			
Xylenes (total)	30.3	0.50	"	30.0	ND	101	70-130			

Surrogate: Dibromofluoromethane	8.02		"	7.50		107	80-120			
Surrogate: 1,2-Dichloroethane-d4	8.52		"	7.50		114	75-130			
Surrogate: Toluene-d8	7.20		"	7.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	7.40		"	7.50		99	70-120			
Surrogate: Dibromofluoromethane	8.02		"	7.50		107	80-120			
Surrogate: Dibromofluoromethane	8.02		"	7.50		107	80-120			
Surrogate: 1,2-Dichloroethane-d4	8.52		"	7.50		114	75-130			
Surrogate: 1,2-Dichloroethane-d4	8.52		"	7.50		114	75-130			
Surrogate: Toluene-d8	7.20		"	7.50		96	80-120			
Surrogate: Toluene-d8	7.20		"	7.50		96	80-120			
Surrogate: 4-Bromofluorobenzene	7.40		"	7.50		99	70-120			

TestAmerica Morgan Hill

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ETIC Engineering Inc - Pleasant Hill (Exxon) 2285 Morello Avenue Pleasant Hill CA, 94523	Project: Exxon 04-FGN Project Number: 04-FGN Project Manager: Bryan Campbell	MRL0522 Reported: 12/29/08 13:50
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## Volatile Organic Compounds by EPA Method 8260B - Quality Control TestAmerica Morgan Hill

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
<b>Batch 8L24003 - EPA 5030B P/T</b>										
<b>Matrix Spike (8L24003-MS1)</b>		<b>Source: MRL0589-01</b>		<b>Prepared &amp; Analyzed: 12/24/08</b>						
<i>Surrogate: 4-Bromofluorobenzene</i>	7.40		ug/l	7.50		99	70-120			
<b>Matrix Spike Dup (8L24003-MSD1)</b>		<b>Source: MRL0589-01</b>		<b>Prepared &amp; Analyzed: 12/24/08</b>						
tert-Amyl methyl ether	11.8	0.50	ug/l	10.0	ND	118	70-130	0.3	25	
tert-Butyl alcohol	198	20	"	200	ND	99	70-130	1	25	
Di-isopropyl ether	9.82	0.50	"	10.0	ND	98	70-130	0.4	25	
Benzene	9.72	0.50	"	10.0	0.170	96	70-130	2	25	
1,2-Dibromoethane (EDB)	11.9	0.50	"	10.0	ND	119	70-130	1	25	
1,2-Dichloroethane	12.3	0.50	"	10.0	0.480	118	70-130	3	25	
Toluene	9.87	0.50	"	10.0	0.130	97	70-130	2	25	
trans-1,2-Dichloroethene	10.1	0.50	"	10.0	ND	101	70-130	3	25	
Ethylbenzene	10.0	0.50	"	10.0	0.0900	99	70-130	1	25	
Ethyl tert-butyl ether	10.7	0.50	"	10.0	ND	107	70-130	3	25	
Methyl tert-butyl ether	13.0	0.50	"	10.0	1.45	116	70-130	0.08	25	
Tetrachloroethene	11.4	0.50	"	10.0	ND	114	70-130	0.6	25	
Trichloroethene	10.7	0.50	"	10.0	ND	107	70-130	1	25	
Xylenes (total)	30.1	0.50	"	30.0	ND	100	70-130	0.7	25	
<i>Surrogate: Dibromofluoromethane</i>	8.00		"	7.50		107	80-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	8.43		"	7.50		112	75-130			
<i>Surrogate: Toluene-d8</i>	7.25		"	7.50		97	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	7.33		"	7.50		98	70-120			
<i>Surrogate: Dibromofluoromethane</i>	8.00		"	7.50		107	80-120			
<i>Surrogate: Dibromofluoromethane</i>	8.00		"	7.50		107	80-120			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	8.43		"	7.50		112	75-130			
<i>Surrogate: 1,2-Dichloroethane-d4</i>	8.43		"	7.50		112	75-130			
<i>Surrogate: Toluene-d8</i>	7.25		"	7.50		97	80-120			
<i>Surrogate: Toluene-d8</i>	7.25		"	7.50		97	80-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	7.33		"	7.50		98	70-120			
<i>Surrogate: 4-Bromofluorobenzene</i>	7.33		"	7.50		98	70-120			

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 04-FGN  
Project Number: 04-FGN  
Project Manager: Bryan Campbell

MRL0522  
Reported:  
12/29/08 13:50

## Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference





**TEST AMERICA SAMPLE RECEIPT LOG**

CLIENT NAME: ETIC ENGINEERING INC  
 REC. BY (PRINT) LM  
 WORKORDER: MRLOS22

DATE REC'D AT LAB: 12/17/08  
 TIME REC'D AT LAB: 1820  
 DATE LOGGED IN: 12/18/08

For Regulatory Purposes?  
 DRINKING WATER  
 WASTE WATER  
 OTHER

CIRCLE THE APPROPRIATE RESPONSE		LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH**	SAMPLE MATRIX	DATE SAMPLED	Temp. >6°C	REMARKS: CONDITION
1. Custody Seal(s)	Present / <del>Absent</del> Intact / Broken*									7 VIAL HCL P. SAMPLE COC
2. Chain-of-Custody	<del>Present</del> / Absent*									
3. Traffic Reports or Packing List:	Present / <del>Absent</del>									
4. Airbill / Sticker - Present / Absent? Tracking #	<del>Present</del> / Absent*									
5. Sample Condition: Intact / <del>Leaking*</del> / Broken*										
6. Samples labeled	<del>Yes</del> / No*									
7. Sample ID's listed on COC	<del>Yes</del> / No*									
8. Does information on COC and sample labels agree?	<del>Yes</del> / No*									
9. Sample received within hold time:	<del>Yes</del> / No*									
10. Adequate sample volume received	<del>Yes</del> / No*									
11. Proper preservatives used	<del>Yes</del> / No*									
12. Trip Blank / Temp Blank Received? (circle which if yes)	Yes / <del>No</del>									
13. Thermometer Used : IR-1 / <del>IR-3</del> / Backup										
14. Cooler	RT*** CF*** CT***									
1	<u>1.6°C</u> <u>-1.0</u> <u>0.6°C</u>									
2										
3										
4										
5										
15. Is/Are corrected temp 0-6°C?	<del>Yes</del> / No*									

\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION

\*\*CHECK SAMPLE PREP LOG IF NOT INDICATED

\*\*\* Read Temperature/Correction Factor/Corrected Temperature