

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

**Jennifer C. Sedlachek**  
Project Manager

**ExxonMobil**

June 23, 2008

**RECEIVED**

1:49 pm, Jun 25, 2008

Alameda County  
Environmental Health

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 04334, 2492 Castro Valley Boulevard, Castro Valley, California

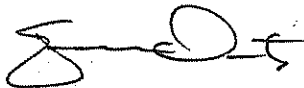
Dear Ms. Jakub:

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

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

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

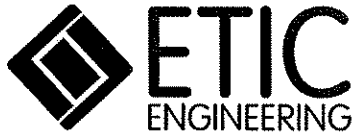
Sincerely,



FOR  
Jennifer C. Sedlachek  
Project Manager

Attachment: ETIC Groundwater Monitoring Report dated June 2008

- c: w/ attachment:  
Ms. Paula Floeck – Jiffy Lube International  
Mr. Joseph D. Phillips – Jiffy Lube Remediation Coordinator  
Mr. William Slautterback – Cal Lube Real Estate Limited Partnership  
Mr. William Peterson – Owner of Castro Valley Lumber Company
- c: w/o attachment:  
Mr. Bryan Campbell – ETIC Engineering, Inc.



**Report of Groundwater Monitoring  
Second Quarter 2008**

**Former Mobil Station 04334  
2492 Castro Valley Boulevard  
Castro Valley, California**

Prepared for

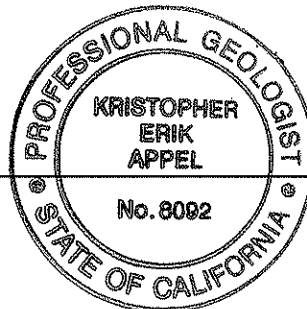
ExxonMobil Oil Corporation

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



*June 10, 2008*  
Date

June 2008

## SITE CONTACTS

Site Name: Former Mobil Station 04334

Site Address: 2492 Castro Valley Boulevard  
Castro Valley, 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: K. Erik Appel

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 the former Mobil Station 04334. 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 31 January 2008, the date of the previous monitoring event to 1 May 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 04334
<b>Site address:</b>	2492 Castro Valley Boulevard, Castro Valley, California
<b>Current property owner:</b>	Cal Lube Real Estate Limited Partnership
<b>Current site use:</b>	Jiffy Lube Oil Change facility
<b>Current phase of project:</b>	Groundwater monitoring
<b>Tanks at site:</b>	Four former underground storage tanks removed 1983
<b>Number of wells:</b>	4 (3 onsite, 1 offsite)

## GROUNDWATER MONITORING SUMMARY

<b>Gauging and sampling date:</b>	1 May 2008
<b>Wells gauged and sampled:</b>	MW1-MW4
<b>Wells gauged only:</b>	None
<b>Groundwater flow direction:</b>	North
<b>Groundwater gradient:</b>	0.013
<b>Well screens submerged:</b>	None
<b>Well screens not submerged:</b>	MW1, MW2, MW3, MW4
<b>Liquid-phase hydrocarbons:</b>	Not observed or detected
<b>Laboratory:</b>	TestAmerica, Inc., Nashville, Tennessee

### Analyses performed:

- Total Petroleum Hydrocarbons as gasoline and as diesel by EPA Method 8015B
- Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B
- Methyl tertiary butyl ether by EPA Method 8260B

## **ADDITIONAL ACTIVITIES PERFORMED**

None.

## **WORK PROPOSED FOR NEXT QUARTER**

Groundwater will be monitored in accordance with the attached groundwater monitoring plan.

### Attachments:

Figure 1: Site Map Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction Details

Table 2: Groundwater Monitoring Data

Table 3: Groundwater Monitoring Plan

Appendix A: Field Protocols

Appendix B: Field Documents

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

## **Figures**

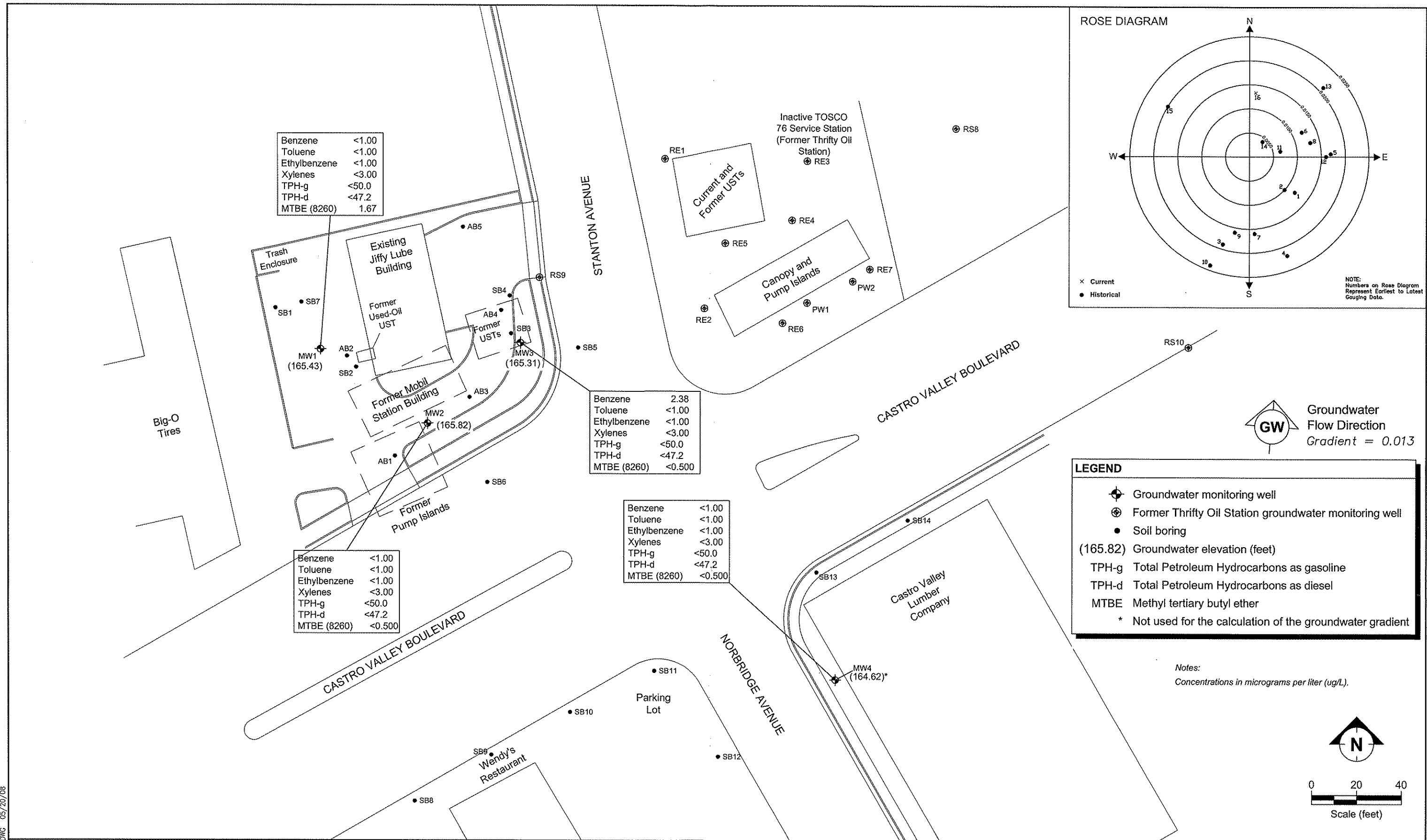
FILENAME: 202008.DWG 05/20/08



SITE MAP SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS  
 FORMER MOBIL STATION 04334  
 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA  
 1 MAY 2008

FIGURE:

1



## **Tables**



TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, 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
MW1	a 06/24/04	173.23	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW2	a 06/25/04	173.63	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW3	a 06/25/04	171.91	PVC	20	20	8.25	2	5 - 20	0.010	4.5 - 20	#2/12 Sand
MW4	a 06/24/04	170.48	PVC	15	14	8.25	2	4 - 14	0.010	3.5 - 15	#2/12 Sand

Notes:

a Well surveyed on 12 July 2004 by Morrow Surveying.

PVC Polyvinyl chloride.

TOC Top of casing.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentration (µg/L)						
					Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-g	TPH-d	MTBE
MW1	a 08/13/04	173.23	7.32	165.91	<0.5	0.7	<0.5	1.0	<50	71	1.20 <sup>b</sup>
MW1	11/09/04	173.23	6.96	166.27	<0.5	0.9	<0.5	0.9	<50	63	1.50 <sup>b</sup>
MW1	02/16/05	173.23	6.10	167.13	<0.5	1.0	<0.5	1.5	<50	78	1.30 <sup>b</sup>
MW1	05/16/05	173.23	5.81	167.42	<0.5	<0.5	<0.5	<0.5	<50	<50	1.40 <sup>b</sup>
MW1	08/17/05	173.23	6.70	166.53	<0.5	<0.5	<0.5	<0.5	<50	<50	1.19 <sup>b</sup>
MW1	11/15/05	173.23	7.55	165.68	<0.5	<0.5	<0.5	<0.5	<50	<50	1.13 <sup>b</sup>
MW1	02/06/06	173.23	6.40	166.83	<0.5	<0.5	<0.5	<0.5	<50	160	<0.5 <sup>b</sup>
MW1	05/03/06	173.23	6.95	166.28	<1.00	<1.00	<1.00	<3.00	<50.0	78	<0.50 <sup>b</sup>
MW1	08/04/06	173.23	7.71	165.52	<0.50	<0.50	<0.50	<0.50	<50.0	167	<0.500 <sup>b</sup>
MW1	11/06/06	173.23	7.57	165.66	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	0.880 <sup>b</sup>
MW1	02/21/07	173.23	7.19	166.04	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	2.42 <sup>b</sup>
MW1	08/01/07	173.23	8.00	165.23	3.02	4.18	0.89	3.96	90.8	<47	1.54 <sup>b</sup>
MW1	10/25/07	173.23	7.90	165.33	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	1.63 <sup>b</sup>
MW1	01/31/08	173.23	6.60	166.63	<0.50	<0.50	<0.50	<0.50	<50	<50	1.8 <sup>b</sup>
<b>MW1</b>	<b>05/01/08</b>	<b>173.23</b>	<b>7.80</b>	<b>165.43</b>	<b>&lt;1.00</b>	<b>&lt;1.00</b>	<b>&lt;1.00</b>	<b>&lt;3.00</b>	<b>&lt;50.0</b>	<b>&lt;47.2</b>	<b>1.67<sup>b</sup></b>
MW2	a 08/13/04	173.63	6.96	166.67	<0.5	0.8	<0.5	1.0	<50	57	<0.5 <sup>b</sup>
MW2	11/09/04	173.63	6.44	167.19	<0.5	1.1	<0.5	1.2	<50	<50	<0.5 <sup>b</sup>
MW2	02/16/05	173.63	5.21	168.42	<0.5	0.9	<0.5	1.4	<50	55	<0.5 <sup>b</sup>
MW2	05/16/05	173.63	5.86	167.77	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 <sup>b</sup>
MW2	08/17/05	173.63	5.72	167.91	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 <sup>b</sup>
MW2	11/15/05	173.63	7.65	165.98	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 <sup>b</sup>
MW2	02/06/06	173.63	6.24	167.39	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 <sup>b</sup>
MW2	05/03/06	173.63	6.53	167.10	<1.00	<1.00	<1.00	<3.00	<50.0	<50	<0.50 <sup>b</sup>
MW2	08/04/06	173.63	7.65	165.98	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500 <sup>b</sup>
MW2	11/06/06	173.63	6.98	166.65	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.500 <sup>b</sup>
MW2	02/21/07	173.63	6.36	167.27	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	1.70 <sup>b</sup>

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentration (µg/L)						
					Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-g	TPH-d	MTBE
MW2	05/01/07	173.63	7.51	166.12	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.50 <sup>b</sup>
MW2	08/01/07	173.63	8.12	165.51	<0.50	<0.50	<0.50	<0.50	<50.0	<47	<0.500 <sup>b</sup>
MW2	10/25/07	173.63	7.79	165.84	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500 <sup>b</sup>
MW2	01/31/08	173.63	5.89	167.74	<0.50	<0.50	<0.50	<0.50	<50	<50	0.82 <sup>b</sup>
<b>MW2</b>	<b>05/01/08</b>	<b>173.63</b>	<b>7.81</b>	<b>165.82</b>	<b>&lt;1.00</b>	<b>&lt;1.00</b>	<b>&lt;1.00</b>	<b>&lt;3.00</b>	<b>&lt;50.0</b>	<b>&lt;47.2</b>	<b>&lt;0.500<sup>b</sup></b>
MW3	a 08/13/04	171.91	5.36	166.55	100	2.0	187	59.6	1,440	352	<0.5 <sup>b</sup>
MW3	11/09/04	171.91	4.80	167.11	188	3.6	242	20.0	1,690	461	<0.5 <sup>b</sup>
MW3	02/16/05	171.91	3.10	168.81	66.2	1.4	61.1	12.6	575	269	<0.5 <sup>b</sup>
MW3	05/16/05	171.91	3.86	168.05	74.2	1.4	61.0	9.0	592	92	<0.5 <sup>b</sup>
MW3	08/17/05	171.91	4.75	167.16	231 <sup>c</sup>	2.35	102	11.4	1,130	416	<0.5 <sup>b</sup>
MW3	11/15/05	171.91	6.56	165.35	57.4	0.95	62.4	10.5	452	193	<0.5 <sup>b</sup>
MW3	02/06/06	171.91	4.00	167.91	69	<5.0	64	10	830	165	<0.5 <sup>b</sup>
MW3	05/03/06	171.91	5.44	166.47	52.1	<1.00	37.0	4.81	605	140	<0.50 <sup>b</sup>
MW3	08/04/06	171.91	5.25	166.66	15.2	<0.50	5.34	1.25	262	108	<0.500 <sup>b</sup>
MW3	11/06/06	171.91	4.11	167.80	60.0	1.04	47.3	3.09	561	106	<0.500 <sup>b</sup>
MW3	02/21/07	171.91	4.94	166.97	35.1	<0.50	45.4	1.09	483	125	<0.500 <sup>b</sup>
MW3	05/01/07	171.91	5.86	166.05	32.5	1.63	28.7	1.53	539	120	<0.50 <sup>b</sup>
MW3	08/01/07	171.91	7.54	164.37	1.26	0.60	<0.50	<0.50	89.2	<47	<0.500 <sup>b</sup>
MW3	10/25/07	171.91	6.30	165.61	2.94	<0.50	<0.50	<0.50	50.4	<47.2	<0.500 <sup>b</sup>
MW3	01/31/08	171.91	3.75	168.16	10	<0.50	11	<0.50	120	51 <sup>d</sup>	<0.50 <sup>b</sup>
<b>MW3</b>	<b>05/01/08</b>	<b>171.91</b>	<b>6.60</b>	<b>165.31</b>	<b>2.38</b>	<b>&lt;1.00</b>	<b>&lt;1.00</b>	<b>&lt;3.00</b>	<b>&lt;50.0</b>	<b>&lt;47.2</b>	<b>&lt;0.500<sup>b</sup></b>
MW4	a 08/13/04	170.48	6.10	164.38	<0.5	0.8	<0.5	1.1	<50	72	2.80 <sup>b</sup>
MW4	11/09/04	170.48	5.54	164.94	<0.5	2.3	0.7	1.5	<50	<50	2.10 <sup>b</sup>
MW4	02/16/05	170.48	5.11	165.37	<0.5	1.1	<0.5	1.7	<50	<50	<0.5 <sup>b</sup>
MW4	05/16/05	170.48	5.44	165.04	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 <sup>b</sup>
MW4	08/17/05	170.48	5.71	164.77	<0.5	<0.5	<0.5	<0.5	<50	<50	1.03 <sup>b</sup>

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Concentration (µg/L)						
					Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-g	TPH-d	MTBE
MW4	11/15/05	170.48	5.80	164.68	<0.5	<0.5	<0.5	<0.5	<50	<50	0.730 <sup>b</sup>
MW4	02/06/06	170.48	5.10	165.38	<0.5	<0.5	<0.5	<0.5	<50	85.2	<0.5 <sup>b</sup>
MW4	05/03/06	170.48	5.54	164.94	<1.00	<1.00	<1.00	<3.00	<50.0	<47	<0.50 <sup>b</sup>
MW4	08/04/06	170.48	5.75	164.73	<0.50	<0.50	<0.50	<0.50	<50.0	52.7	<0.500 <sup>b</sup>
MW4	11/06/06	170.48	5.95	164.53	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500 <sup>b</sup>
MW4	02/21/07	170.48	5.56	164.92	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.500 <sup>b</sup>
MW4	05/01/07	170.48	5.66	164.82	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.50 <sup>b</sup>
MW4	08/01/07	170.48	6.06	164.42	0.85	<0.50	<0.50	0.97	<50.0	<47	<0.870 <sup>b</sup>
MW4	10/25/07	170.48	5.34	165.14	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500 <sup>b</sup>
MW4	01/31/08	170.48	5.05	165.43	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50 <sup>b</sup>
<b>MW4</b>	<b>05/01/08</b>	<b>170.48</b>	<b>5.86</b>	<b>164.62</b>	<b>&lt;1.00</b>	<b>&lt;1.00</b>	<b>&lt;1.00</b>	<b>&lt;3.00</b>	<b>&lt;50.0</b>	<b>&lt;47.2</b>	<b>&lt;0.500<sup>b</sup></b>

Notes: Depth-to-water-level measurements in feet from top-of-casing.

a Top-of-casing elevation surveyed by Morrow Surveying on 12 July 2004.

b Analyzed by EPA Method 8260.

c Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.

d Does not match typical pattern.

MTBE Methyl tertiary butyl ether.

TPH-d Total Petroleum Hydrocarbons as diesel.

TPH-g Total Petroleum Hydrocarbons as gasoline.

µg/L Micrograms per liter.

TABLE 3 GROUNDWATER MONITORING PLAN, FORMER MOBIL STATION 04334,  
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency	
		BTEX, TPH-g, and TPH-d	MTBE
MW1	Q	Q	Q
MW2	Q	Q	Q
MW3	Q	Q	Q
MW4	Q	Q	Q

Notes:

BTEX Benzene, toluene, ethylbenzene, and xylenes.  
 MTBE Methyl tertiary butyl ether.  
 Q Quarterly.  
 TPH-d Total Petroleum Hydrocarbons as diesel.  
 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**





Project Name: Exxon 04334 Well No: MW-1 Date: 05-11-08  
 Project No: UP04-334.1.6 Personnel: BINDER

**GAUGING DATA**  
 Water Level Measuring Method: WLM / IP Measuring Point Description: TOC

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)
		19.71	- 7.80	= 11.91	X 1	2	4	6	1.90
				0.04	0.16	0.64	1.44		

**PURGING DATA**  
 Purge Method: WATERRAY / BAILER / SUB Purge Rate: GPM

Time	0809	0811	0813		
Volume Purge (gal)	2.00	4.00	6.00		
Temperature (C)	16.9	18.1	18.5		
pH	6.97	7.28	7.32		
Spec. Cond. (umhos)	941	987	990		
Turbidity/Color	<del>SILTY</del> CLEAR	<del>SILTY</del> CLEAR	<del>SILTY</del> CLEAR		
Odor (Y/N)	N	N	N		
Casing Volumes	1	2	3		
Dewatered (Y/N)	N	N	N		

Comments/Observations:

**SAMPLING DATA**  
 Time Sampled: 0820 Approximate Depth to Water During Sampling: 8 (feet)  
 Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW-1	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW-1	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 6 (gallons) Disposal: SYSTEM

Weather Conditions: OK BOLTS  / N

Condition of Well Box and Casing at Time of Sampling: OK CAP & LOCK  / N

Well Head Conditions Requiring Correction: N GROUT  / N

Problems Encountered During Purging and Sampling: N WELL BOX.  / N

Comments: SECURED  / N

Project Name: Exxon 04334 Well No: MW-2 Date: 05-1-08  
 Project No: UP04-334.1.6 Personnel: ZINDEK

**GAUGING DATA**  
 Water Level Measuring Method: WLM / IP Measuring Point Description: TOC

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)	
		20.20	- 7.81	= 12.39	X 1	0.04	0.16	0.64	1.44	1.98

**PURGING DATA**  
 Purge Method: WATERRA / BAILER / SUB Purge Rate: GPM

Time	0846	0848	0850			
Volume Purge (gal)	2.00	4.00	6.00			
Temperature (C)	19.8	19.3	20.0			
pH	7.36	7.30	7.31			
Spec. Cond. (umhos)	866	864	862			
Turbidity/Color	<del>5107</del> CLEAR	<del>5107</del> CLEAR	<del>5107</del> CLEAR			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

**SAMPLING DATA**  
 Time Sampled: 0855 Approximate Depth to Water During Sampling: 8.0 (feet)  
 Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW-2	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW-2	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 6.1 (gallons) Disposal: SYSTEM  
 Weather Conditions: OK BOLTS  / N  
 Condition of Well Box and Casing at Time of Sampling: OK CAP & LOCK  / N  
 Well Head Conditions Requiring Correction: NONE GROUT  / N  
 Problems Encountered During Purging and Sampling: NONE WELL BOX  / N  
 Comments: SECURED  / N

Project Name: Exxon 04334 Well No: MW-3 Date: 05-1-8  
 Project No: UP04-334.1.6 Personnel: RINDEF

**GAUGING DATA**  
 Water Level Measuring Method: WLM / IP Measuring Point Description: TOC

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)
	19.97	- 6.60	= 13.37	X 1	2	4	6	2.13	= 6.41
				0.04	0.16	0.64	1.44		

**PURGING DATA**  
 Purge Method: WATERBA / BAILER / SUB Purge Rate: GPM

Time	0913	0916	0919			
Volume Purge (gal)	2.50	5.00	7.50			
Temperature (C)	19.5	19.9	19.0			
pH	7.17	7.15	7.20			
Spec. Cond. (umhos)	1010	1024	995			
Turbidity/Color	<del>SILT GRAY</del>	<del>SILT GRAY</del>	<del>SILT GRAY</del>			
Odor (Y/N)	Y	Y	Y			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

**SAMPLING DATA**  
 Time Sampled: 0925 Approximate Depth to Water During Sampling: 7 (feet)  
 Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW-3	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW-3	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 7.5 (gallons) Disposal: SYSTEM

Weather Conditions: ok BOLTS  / N

Condition of Well Box and Casing at Time of Sampling: ok CAP & LOCK  / N

Well Head Conditions Requiring Correction: None GROUT  / N

Problems Encountered During Purging and Sampling: None WELL BOX  / N

Comments: SECURED  / N



## **Appendix C**

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

May 19, 2008 11:53:36AM

Client: ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523  
Attn: Erik Appel

Work Order: NRE0529  
Project Name: Exxon 04-334  
Project Nbr: 04-334  
P/O Nbr: 4509318711  
Date Received: 05/07/08

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW1	NRE0529-01	05/01/08 08:20
MW2	NRE0529-02	05/01/08 08:55
MW3	NRE0529-03	05/01/08 09:25
MW4	NRE0529-04	05/01/08 10:05

An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed, are outside the scope of the Laboratory's accreditation.

This material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the employee or agent responsible for delivering this material to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify us immediately at 615-726-0177.

California Certification Number: 01168CA

The Chain(s) of Custody, 3 pages, are included and are an integral part of this report.

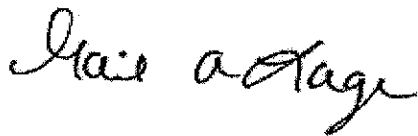
These results relate only to the items tested. This report shall not be reproduced except in full and with permission of the laboratory.

All solids results are reported in wet weight unless specifically stated.

Estimated uncertainty is available upon request.

This report has been electronically signed.

Report Approved By:



Gail A Lage

Program Manager - National Accounts

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Erik Appel

Work Order: NRE0529  
 Project Name: Exxon 04-334  
 Project Number: 04-334  
 Received: 05/07/08 08:20

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NRE0529-01 (MW1 - Water) Sampled: 05/01/08 08:20</b>								
Volatile Organic Compounds by EPA Method 8021B								
Benzene	ND		ug/L	1.00	1	05/14/08 13:03	SW846 8021B	8051816
Ethylbenzene	ND		ug/L	1.00	1	05/14/08 13:03	SW846 8021B	8051816
Toluene	ND		ug/L	1.00	1	05/14/08 13:03	SW846 8021B	8051816
Xylenes, total	ND		ug/L	3.00	1	05/14/08 13:03	SW846 8021B	8051816
<i>Surr: a,a,a-Trifluorotoluene (46-150%)</i>	74 %					05/14/08 13:03	SW846 8021B	8051816
Selected Volatile Organic Compounds by EPA Method 8260B								
Methyl tert-Butyl Ether	1.67		ug/L	0.500	1	05/11/08 05:16	SW846 8260B	8050887
<i>Surr: 1,2-Dichloroethane-d4 (60-140%)</i>	93 %					05/11/08 05:16	SW846 8260B	8050887
<i>Surr: Dibromofluoromethane (75-124%)</i>	98 %					05/11/08 05:16	SW846 8260B	8050887
<i>Surr: Toluene-d8 (78-121%)</i>	102 %					05/11/08 05:16	SW846 8260B	8050887
<i>Surr: 4-Bromofluorobenzene (79-124%)</i>	103 %					05/11/08 05:16	SW846 8260B	8050887
Purgeable Petroleum Hydrocarbons								
GRO as Gasoline	ND		ug/L	50.0	1	05/13/08 20:25	SW846 8015B	8051517
<i>Surr: a,a,a-Trifluorotoluene (46-150%)</i>	83 %					05/13/08 20:25	SW846 8015B	8051517
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	47.2	1	05/08/08 18:47	SW846 8015B	8050931
<i>Surr: o-Terphenyl (18-150%)</i>	103 %					05/08/08 18:47	SW846 8015B	8050931
<b>Sample ID: NRE0529-02 (MW2 - Water) Sampled: 05/01/08 08:55</b>								
Volatile Organic Compounds by EPA Method 8021B								
Benzene	ND		ug/L	1.00	1	05/14/08 13:34	SW846 8021B	8051816
Ethylbenzene	ND		ug/L	1.00	1	05/14/08 13:34	SW846 8021B	8051816
Toluene	ND		ug/L	1.00	1	05/14/08 13:34	SW846 8021B	8051816
Xylenes, total	ND		ug/L	3.00	1	05/14/08 13:34	SW846 8021B	8051816
<i>Surr: a,a,a-Trifluorotoluene (46-150%)</i>	78 %					05/14/08 13:34	SW846 8021B	8051816
Selected Volatile Organic Compounds by EPA Method 8260B								
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	05/11/08 05:43	SW846 8260B	8050887
<i>Surr: 1,2-Dichloroethane-d4 (60-140%)</i>	91 %					05/11/08 05:43	SW846 8260B	8050887
<i>Surr: Dibromofluoromethane (75-124%)</i>	98 %					05/11/08 05:43	SW846 8260B	8050887
<i>Surr: Toluene-d8 (78-121%)</i>	102 %					05/11/08 05:43	SW846 8260B	8050887
<i>Surr: 4-Bromofluorobenzene (79-124%)</i>	105 %					05/11/08 05:43	SW846 8260B	8050887
Purgeable Petroleum Hydrocarbons								
GRO as Gasoline	ND		ug/L	50.0	1	05/13/08 20:57	SW846 8015B	8051517
<i>Surr: a,a,a-Trifluorotoluene (46-150%)</i>	77 %					05/13/08 20:57	SW846 8015B	8051517
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	47.2	1	05/08/08 19:07	SW846 8015B	8050931
<i>Surr: o-Terphenyl (18-150%)</i>	105 %					05/08/08 19:07	SW846 8015B	8050931
<b>Sample ID: NRE0529-03 (MW3 - Water) Sampled: 05/01/08 09:25</b>								
Volatile Organic Compounds by EPA Method 8021B								
Benzene	2.38		ug/L	1.00	1	05/14/08 14:06	SW846 8021B	8051816



Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Erik Appel

Work Order: NRE0529  
 Project Name: Exxon 04-334  
 Project Number: 04-334  
 Received: 05/07/08 08:20

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Batch
<b>Sample ID: NRE0529-03 (MW3 - Water) - cont. Sampled: 05/01/08 09:25</b>								
Volatile Organic Compounds by EPA Method 8021B - cont.								
Ethylbenzene	ND		ug/L	1.00	1	05/14/08 14:06	SW846 8021B	8051816
Toluene	ND		ug/L	1.00	1	05/14/08 14:06	SW846 8021B	8051816
Xylenes, total	ND		ug/L	3.00	1	05/14/08 14:06	SW846 8021B	8051816
<i>Surr: a,a,a-Trifluorotoluene (46-150%)</i>	82 %					05/14/08 14:06	SW846 8021B	8051816
Selected Volatile Organic Compounds by EPA Method 8260B								
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	05/11/08 06:10	SW846 8260B	8050887
<i>Surr: 1,2-Dichloroethane-d4 (60-140%)</i>	91 %					05/11/08 06:10	SW846 8260B	8050887
<i>Surr: Dibromofluoromethane (75-124%)</i>	96 %					05/11/08 06:10	SW846 8260B	8050887
<i>Surr: Toluene-d8 (78-121%)</i>	103 %					05/11/08 06:10	SW846 8260B	8050887
<i>Surr: 4-Bromofluorobenzene (79-124%)</i>	103 %					05/11/08 06:10	SW846 8260B	8050887
Purgeable Petroleum Hydrocarbons								
GRO as Gasoline	ND		ug/L	50.0	1	05/13/08 21:28	SW846 8015B	8051517
<i>Surr: a,a,a-Trifluorotoluene (46-150%)</i>	85 %					05/13/08 21:28	SW846 8015B	8051517
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	47.2	1	05/08/08 19:28	SW846 8015B	8050931
<i>Surr: o-Terphenyl (18-150%)</i>	110 %					05/08/08 19:28	SW846 8015B	8050931
<b>Sample ID: NRE0529-04 (MW4 - Water) Sampled: 05/01/08 10:05</b>								
Volatile Organic Compounds by EPA Method 8021B								
Benzene	ND		ug/L	1.00	1	05/14/08 14:37	SW846 8021B	8051816
Ethylbenzene	ND		ug/L	1.00	1	05/14/08 14:37	SW846 8021B	8051816
Toluene	ND		ug/L	1.00	1	05/14/08 14:37	SW846 8021B	8051816
Xylenes, total	ND		ug/L	3.00	1	05/14/08 14:37	SW846 8021B	8051816
<i>Surr: a,a,a-Trifluorotoluene (46-150%)</i>	71 %					05/14/08 14:37	SW846 8021B	8051816
Selected Volatile Organic Compounds by EPA Method 8260B								
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	05/11/08 06:36	SW846 8260B	8050887
<i>Surr: 1,2-Dichloroethane-d4 (60-140%)</i>	89 %					05/11/08 06:36	SW846 8260B	8050887
<i>Surr: Dibromofluoromethane (75-124%)</i>	95 %					05/11/08 06:36	SW846 8260B	8050887
<i>Surr: Toluene-d8 (78-121%)</i>	102 %					05/11/08 06:36	SW846 8260B	8050887
<i>Surr: 4-Bromofluorobenzene (79-124%)</i>	105 %					05/11/08 06:36	SW846 8260B	8050887
Purgeable Petroleum Hydrocarbons								
GRO as Gasoline	ND		ug/L	50.0	1	05/13/08 22:00	SW846 8015B	8051517
<i>Surr: a,a,a-Trifluorotoluene (46-150%)</i>	72 %					05/13/08 22:00	SW846 8015B	8051517
Extractable Petroleum Hydrocarbons with Silica Gel Treatment								
Diesel	ND		ug/L	47.2	1	05/08/08 19:48	SW846 8015B	8050931
<i>Surr: o-Terphenyl (18-150%)</i>	98 %					05/08/08 19:48	SW846 8015B	8050931

Client ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523  
Attn Erik Appel

Work Order: NRE0529  
Project Name: Exxon 04-334  
Project Number: 04-334  
Received: 05/07/08 08:20

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons with Silica Gel Treatment							
SW846 8015B	8050931	NRE0529-01	1060.00	1.00	05/07/08 17:10	MSR	EPA 3510C
SW846 8015B	8050931	NRE0529-02	1060.00	1.00	05/07/08 17:10	MSR	EPA 3510C
SW846 8015B	8050931	NRE0529-03	1060.00	1.00	05/07/08 17:10	MSR	EPA 3510C
SW846 8015B	8050931	NRE0529-04	1060.00	1.00	05/07/08 17:10	MSR	EPA 3510C

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523

Work Order: NRE0529  
 Project Name: Exxon 04-334  
 Project Number: 04-334  
 Received: 05/07/08 08:20

Attn Erik Appel

## PROJECT QUALITY CONTROL DATA

### Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date/Time
---------	-------------	---	-------	------------	------------	--------------------

#### Volatile Organic Compounds by EPA Method 8021B

##### 8051517-BLK1

Benzene	<0.500		ug/L	8051517	8051517-BLK1	05/13/08 19:54
Ethylbenzene	<0.520		ug/L	8051517	8051517-BLK1	05/13/08 19:54
Toluene	<0.500		ug/L	8051517	8051517-BLK1	05/13/08 19:54
Xylenes, total	<1.68		ug/L	8051517	8051517-BLK1	05/13/08 19:54
Surrogate: <i>a,a,a</i> -Trifluorotoluene	85%			8051517	8051517-BLK1	05/13/08 19:54

##### 8051816-BLK1

Benzene	<0.500		ug/L	8051816	8051816-BLK1	05/14/08 12:23
Ethylbenzene	<0.520		ug/L	8051816	8051816-BLK1	05/14/08 12:23
Toluene	<0.500		ug/L	8051816	8051816-BLK1	05/14/08 12:23
Xylenes, total	<1.68		ug/L	8051816	8051816-BLK1	05/14/08 12:23
Surrogate: <i>a,a,a</i> -Trifluorotoluene	76%			8051816	8051816-BLK1	05/14/08 12:23

#### Selected Volatile Organic Compounds by EPA Method 8260B

##### 8050887-BLK1

Methyl tert-Butyl Ether	<0.250		ug/L	8050887	8050887-BLK1	05/11/08 02:36
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	91%			8050887	8050887-BLK1	05/11/08 02:36
Surrogate: Dibromofluoromethane	98%			8050887	8050887-BLK1	05/11/08 02:36
Surrogate: Toluene- <i>d8</i>	102%			8050887	8050887-BLK1	05/11/08 02:36
Surrogate: <i>4</i> -Bromofluorobenzene	105%			8050887	8050887-BLK1	05/11/08 02:36

#### Purgeable Petroleum Hydrocarbons

##### 8051517-BLK1

GRO as Gasoline	<26.0		ug/L	8051517	8051517-BLK1	05/13/08 19:54
Surrogate: <i>a,a,a</i> -Trifluorotoluene	85%			8051517	8051517-BLK1	05/13/08 19:54

#### Extractable Petroleum Hydrocarbons with Silica Gel Treatment

##### 8050931-BLK1

Diesel	<20000		ug/L	8050931	8050931-BLK1	05/08/08 17:27
Surrogate: <i>o</i> -Terphenyl	104%			8050931	8050931-BLK1	05/08/08 17:27

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Erik Appel

Work Order: NRE0529  
 Project Name: Exxon 04-334  
 Project Number: 04-334  
 Received: 05/07/08 08:20

**PROJECT QUALITY CONTROL DATA**  
**LCS**

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8021B</b>								
<b>8051517-BS1</b>								
Benzene	100	97.8		ug/L	98%	74 - 120	8051517	05/14/08 06:55
Ethylbenzene	100	98.4		ug/L	98%	73 - 120	8051517	05/14/08 06:55
Toluene	100	95.5		ug/L	95%	74 - 120	8051517	05/14/08 06:55
Xylenes, total	200	186		ug/L	93%	67 - 120	8051517	05/14/08 06:55
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.0	24.6			82%	46 - 150	8051517	05/14/08 06:55
<b>8051816-BS1</b>								
Benzene	100	98.2		ug/L	98%	74 - 120	8051816	05/14/08 23:33
Ethylbenzene	100	99.5		ug/L	100%	73 - 120	8051816	05/14/08 23:33
Toluene	100	95.2		ug/L	95%	74 - 120	8051816	05/14/08 23:33
Xylenes, total	200	186		ug/L	93%	67 - 120	8051816	05/14/08 23:33
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.0	24.6			82%	46 - 150	8051816	05/14/08 23:33
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>								
<b>8050887-BS1</b>								
Methyl tert-Butyl Ether	50.0	43.6		ug/L	87%	70 - 129	8050887	05/11/08 00:49
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	25.0	24.6			98%	60 - 140	8050887	05/11/08 00:49
Surrogate: Dibromofluoromethane	25.0	24.7			99%	75 - 124	8050887	05/11/08 00:49
Surrogate: Toluene- <i>d8</i>	25.0	25.8			103%	78 - 121	8050887	05/11/08 00:49
Surrogate: <i>4</i> -Bromofluorobenzene	25.0	25.7			103%	79 - 124	8050887	05/11/08 00:49
<b>Purgeable Petroleum Hydrocarbons</b>								
<b>8051517-BS2</b>								
GRO as Gasoline	1000	862	MNR1	ug/L	86%	26 - 150	8051517	05/14/08 07:26
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.0	29.8			99%	46 - 150	8051517	05/14/08 07:26
<b>Extractable Petroleum Hydrocarbons with Silica Gel Treatment</b>								
<b>8050931-BS1</b>								
Diesel	1000000	818000	MNR1	ug/L	82%	49 - 117	8050931	05/08/08 17:47
Surrogate: <i>o</i> -Terphenyl	20000	22100			110%	18 - 150	8050931	05/08/08 17:47

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Erik Appel

Work Order: NRE0529  
 Project Name: Exxon 04-334  
 Project Number: 04-334  
 Received: 05/07/08 08:20

**PROJECT QUALITY CONTROL DATA**

**LCS Dup**

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>												
<b>8050887-BSD1</b>												
Methyl tert-Butyl Ether		51.3		ug/L	50.0	103%	70 - 129	16	32	8050887		05/11/08 01:16
Surrogate: 1,2-Dichloroethane-d4		24.3		ug/L	25.0	97%	60 - 140			8050887		05/11/08 01:16
Surrogate: Dibromofluoromethane		24.4		ug/L	25.0	97%	75 - 124			8050887		05/11/08 01:16
Surrogate: Toluene-d8		25.6		ug/L	25.0	102%	78 - 121			8050887		05/11/08 01:16
Surrogate: 4-Bromofluorobenzene		25.4		ug/L	25.0	102%	79 - 124			8050887		05/11/08 01:16
<b>Purgeable Petroleum Hydrocarbons</b>												
<b>8051517-BSD2</b>												
GRO as Gasoline		849		ug/L	1000	85%	26 - 150	1	35	8051517		05/14/08 07:58
Surrogate: a,a,a-Trifluorotoluene		29.0		ug/L	30.0	97%	46 - 150			8051517		05/14/08 07:58

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523  
 Attn Erik Appel

Work Order: NRE0529  
 Project Name: Exxon 04-334  
 Project Number: 04-334  
 Received: 05/07/08 08:20

**PROJECT QUALITY CONTROL DATA**  
**Matrix Spike**

Analyte	Orig. Val.	MS Val	Q	Units	Spike Conc	% Rec.	Target Range	Batch	Sample Spiked	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>										
<b>8050887-MS1</b>										
Methyl tert-Butyl Ether	1.67	43.4		ug/L	50.0	84%	60 - 144	8050887	NRE0529-01	05/12/08 11:50
<i>Surrogate: 1,2-Dichloroethane-d4</i>		22.9		ug/L	25.0	91%	60 - 140	8050887	NRE0529-01	05/12/08 11:50
<i>Surrogate: Dibromofluoromethane</i>		23.7		ug/L	25.0	95%	75 - 124	8050887	NRE0529-01	05/12/08 11:50
<i>Surrogate: Toluene-d8</i>		25.2		ug/L	25.0	101%	78 - 121	8050887	NRE0529-01	05/12/08 11:50
<i>Surrogate: 4-Bromofluorobenzene</i>		25.2		ug/L	25.0	101%	79 - 124	8050887	NRE0529-01	05/12/08 11:50

Client ETIC Engineering Pleasant Hill (10236)  
 2285 Morello Avenue  
 Pleasant Hill, CA 94523

Attn Erik Appel

Work Order: NRE0529  
 Project Name: Exxon 04-334  
 Project Number: 04-334  
 Received: 05/07/08 08:20

**PROJECT QUALITY CONTROL DATA**

**Matrix Spike Dup**

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date/Time
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>												
<b>8050887-MSD1</b>												
Methyl tert-Butyl Ether	1.67	43.6		ug/L	50.0	84%	60 - 144	0.3	32	8050887	NRE0529-01	05/12/08 12:17
Surrogate: 1,2-Dichloroethane-d4		23.1		ug/L	25.0	92%	60 - 140			8050887	NRE0529-01	05/12/08 12:17
Surrogate: Dibromofluoromethane		24.1		ug/L	25.0	96%	75 - 124			8050887	NRE0529-01	05/12/08 12:17
Surrogate: Toluene-d8		25.4		ug/L	25.0	101%	78 - 121			8050887	NRE0529-01	05/12/08 12:17
Surrogate: 4-Bromofluorobenzene		25.2		ug/L	25.0	101%	79 - 124			8050887	NRE0529-01	05/12/08 12:17

Client ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523

Attn Erik Appel

Work Order: NRE0529  
Project Name: Exxon 04-334  
Project Number: 04-334  
Received: 05/07/08 08:20

## CERTIFICATION SUMMARY

### TestAmerica Nashville

Method	Matrix	AIHA	Nelac	California
SW846 8015B	Water	N/A	X	X
SW846 8021B	Water	N/A	X	X
SW846 8260B	Water	N/A	X	X



Client ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523

Attn Erik Appel

Work Order: NRE0529

Project Name: Exxon 04-334

Project Number: 04-334

Received: 05/07/08 08:20

---

## NELAC CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville does not hold NELAC certifications for the following analytes included in this report

Method

Matrix

Analyte

Client ETIC Engineering Pleasant Hill (10236)  
2285 Morello Avenue  
Pleasant Hill, CA 94523

Attn Erik Appel

Work Order: NRE0529

Project Name: Exxon 04-334

Project Number: 04-334

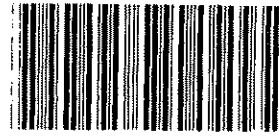
Received: 05/07/08 08:20

---

## DATA QUALIFIERS AND DEFINITIONS

**MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.  
**ND** Not detected at the reporting limit (or method detection limit if shown)

## METHOD MODIFICATION NOTES



COOLER REC1

Cooler Received/Opened On 05/07/08 @ 08:20

NRE0525

1. Tracking # 3070 (last 4 digits, FedEx)

Courier: FED-EX IR Gun ID 92171982

2. Temperature of rep. sample or temp blank when opened: 5.2 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 2 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) \_\_\_\_\_

7. Were custody seals on containers: YES NO and intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # \_\_\_\_\_

I certify that I unloaded the cooler and answered questions 7-14 (initial) am

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

If preservation in-house was needed, record standard ID of preservative used here \_\_\_\_\_

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) am

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) am

I certify that I attached a label with the unique LIMS number to each container (initial) am

21. Were there Non-Conformance issues at login? YES...NO...# Was a PIPE generated? YES...NO...#



# TEST AMERICA SAMPLE RECEIPT LOG

CLIENT NAME: ETIC 4334  
 REC. BY (PRINT) D. Lima  
 WORKORDER: \_\_\_\_\_

DATE REC'D AT LAB: 5/2/08  
 TIME REC'D AT LAB: 2:00  
 DATE LOGGED IN: \_\_\_\_\_

For Regulatory Purposes?  
 DRINKING WATER  
 WASTE WATER  
 OTHER

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	CLIENT ID	CONTAINER DESCRIPTION	PRESER VATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <input checked="" type="radio"/> Absent Intact / Broken*		MW-1	6VOA	HCl	-	W	5/1/08	
2. Chain-of-Custody <input checked="" type="radio"/> Present / Absent*		MW-2	↓	↓	↓	↓	↓	
3. Traffic Reports or Packing List: Present / <input checked="" type="radio"/> Absent		MW-3	↓	↓	↓	↓	↓	
4. Airbill: Airbill / Sticker Present / <input checked="" type="radio"/> Absent		MW-4	↓	↓	↓	↓	↓	
5. Airbill #: _____								
6. Sample Labels: <input checked="" type="radio"/> Present / Absent								
7. Sample IDs: <input checked="" type="radio"/> Listed / Not Listed on Chain-of-Custody								
8. Sample Condition: <input checked="" type="radio"/> Intact / Broken* / Leaking*								* Arrivers were received on 5/5/08 - 1530
9. Does information on chain-of-custody, traffic reports and sample labels agree? <input checked="" type="radio"/> Yes / No*								
10. Sample received within hold time? <input checked="" type="radio"/> Yes / No*								
11. Adequate sample volume received? <input checked="" type="radio"/> Yes / No*								
12. Proper preservatives used? <input checked="" type="radio"/> Yes / No*								
13. Trip Blank / Temp Blank Received? (circle which, if yes) Yes / <input checked="" type="radio"/> No*								
14. Read Temp: <u>4.4</u> Correction Factor: <u>-1.0</u> Corrected Temp: <u>3.4</u> Is corrected temp. 0-6°C? <input checked="" type="radio"/> Yes / No**								
**Exception (if any): Metals / Perchlorate DFF on Ice or Problem COC								

Received 5/2/08  
 D. Lima  
 1530

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