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4096 Piedmont Avenue #194  
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510 547 8706 FAX  
jennifer.c.sedlachek@exxonmobil.com

Jennifer C. Sedlachek  
Project Manager

**ExxonMobil**  
*Refining & Supply*

January 13, 2006

**RECEIVED**

By loprojectop at 9:03 am, Jan 17, 2006

Mr. Amir Gholami  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, 2<sup>nd</sup> Floor  
Alameda, California 94502

Subject: Former Mobil Station 04-334, 2492 Castro Valley Boulevard, Castro Valley, California

Dear Mr. Gholami:

Attached for your review and comment is a copy of the *Report of Groundwater Monitoring, Fourth Quarter 2005* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the November 2005 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,

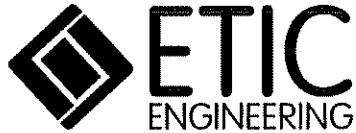


Jennifer C. Sedlachek  
Project Manager

Attachment: ETIC Groundwater Monitoring Report dated January 2006

c: w/ attachment:  
Ms. Paula Floeck – Jiffy Lube International  
Mr. Dan McQuillen – 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:  
Ms. Christa Marting - ETIC Engineering, Inc



**RECEIVED**  
By lopprojectop at 9:04 am, Jan 17, 2006

# Report of Groundwater Monitoring Fourth Quarter 2005

**Former Mobil Station 04-334  
2492 Castro Valley Boulevard  
Castro Valley, California**

Prepared for

ExxonMobil Oil Corporation  
4096 Piedmont Avenue #194  
Oakland, California 94611

Prepared by

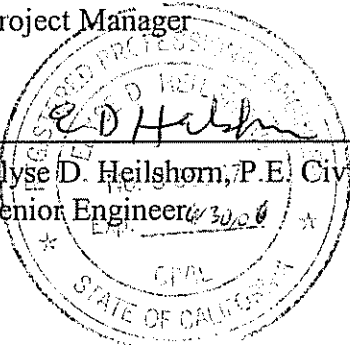
ETIC Engineering, Inc.  
2285 Morello Avenue  
Pleasant Hill, California 94523  
(925) 602-4710

*Sherris Prall*

*Jan. 12, 2006*

Sherris Prall  
Project Manager

Date



Elyse D. Heilshorn, P.E. Civil# 36567  
Senior Engineer

*1/12/06*

Date

January 2006

## SITE CONTACTS

Station Number: Former Mobil Station 04-334

Station Address: 2492 Castro Valley Boulevard  
Castro Valley, California

ExxonMobil Project Manager: Jennifer C. Sedlachek  
ExxonMobil Refining and Supply 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: Sherris Prall

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

## INTRODUCTION

At the request of ExxonMobil Oil Corporation, ETIC Engineering, Inc. has prepared this report of groundwater monitoring for former Mobil Station 04-334. 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 17 August 2005, the date of the last monitoring event, through 15 November 2005, the date of the 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 04-334
<b>Site address:</b>	2492 Castro Valley Boulevard, Castro Valley, California
<b>Current property owner:</b>	Cal Lube Real Estate Limited Partnership I
<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>	15 November 2005
<b>Wells gauged and sampled:</b>	MW1-MW4
<b>Wells gauged only:</b>	None
<b>Groundwater flow direction:</b>	Northeast
<b>Groundwater gradient:</b>	0.012
<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 total xylenes by EPA Method 8021B
- Methyl t-butyl ether by EPA Method 8260B

## **ADDITIONAL ACTIVITIES PERFORMED AT SITE**

No additional activities were performed at the site.

## **WORK PROPOSED FOR NEXT QUARTER**

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

### **Attachments:**

Figure 1: Site Plan 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

## **Figures**

**LEGEND:**

- ⊕ Former Thrifty Oil Station
- ⊕ Groundwater Monitoring Well
- Soil Boring
- ⊕ Groundwater Monitoring Well

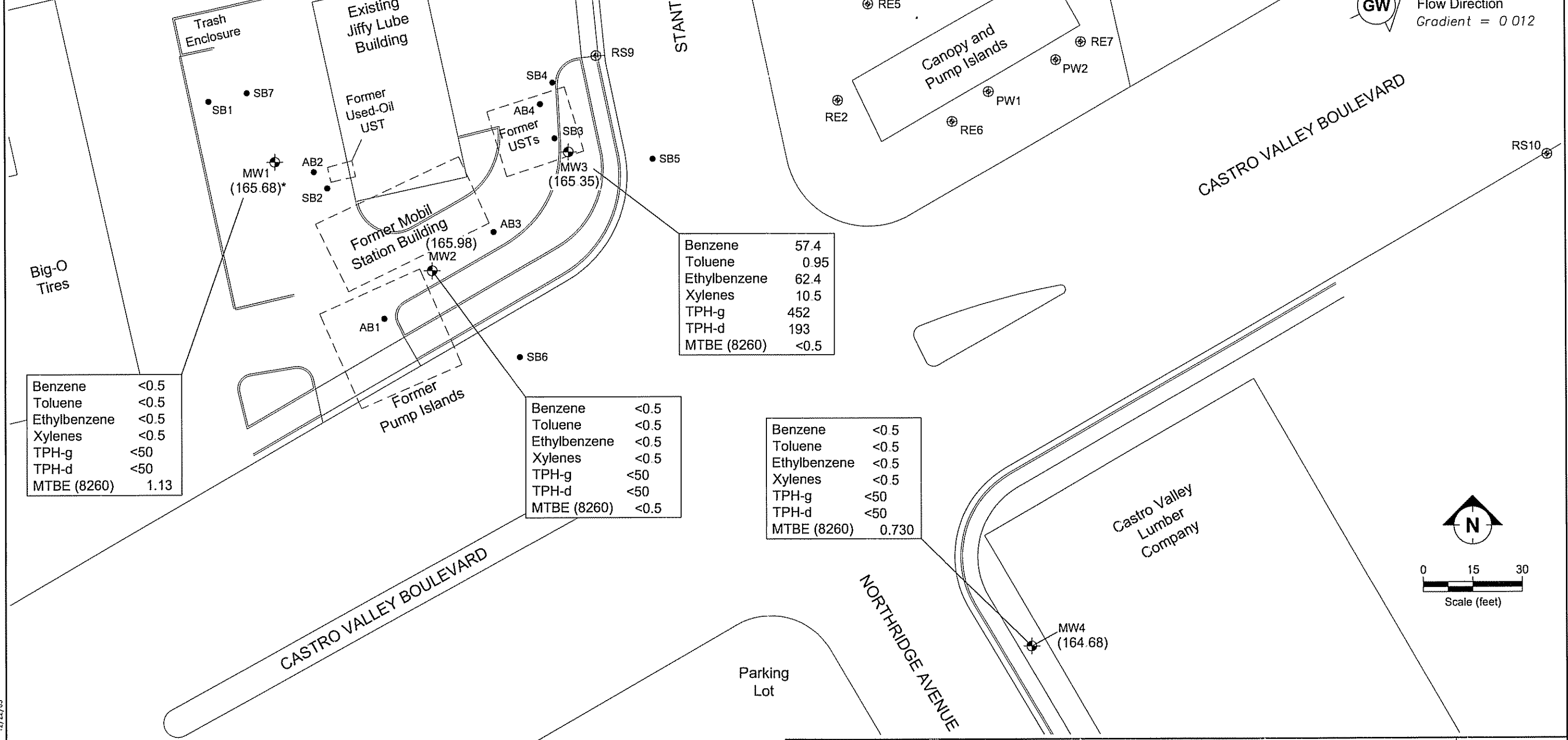
(165.98) Groundwater Elevation (feet)

TPH-g Total Petroleum Hydrocarbons as Gasoline

TPH-d Total Petroleum Hydrocarbons as Diesel

MTBE Methyl T-butyl Ether

\* Not Used To Determine Gradient



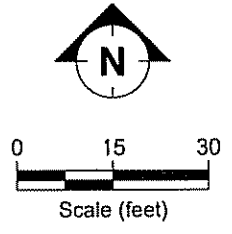
Benzene	57.4
Toluene	0.95
Ethylbenzene	62.4
Xylenes	10.5
TPH-g	452
TPH-d	193
MTBE (8260)	<0.5

Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylenes	<0.5
TPH-g	<50
TPH-d	<50
MTBE (8260)	1.13

Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylenes	<0.5
TPH-g	<50
TPH-d	<50
MTBE (8260)	<0.5

Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylenes	<0.5
TPH-g	<50
TPH-d	<50
MTBE (8260)	0.730

GW  
Groundwater Flow Direction  
Gradient = 0.012



FILENAME: 402005.DWG 12/22/05

Note:  
Concentrations In Micrograms Per Liter (ug/L).



SITE PLAN SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS  
FORMER MOBIL STATION 04-334  
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA  
15 NOVEMBER 2005

FIGURE:  
**1**

## **Tables**



TABLE 1 WELL CONSTRUCTION DETAILS, FORMER MOBIL STATION 04-334, 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

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 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID	Date	Top of Casing	Depth to	Groundwater	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)
		Elevation (feet)	Water (feet)	Elevation (feet)							
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>
<b>MW1</b>	<b>11/15/05</b>	<b>173.23</b>	<b>7.55</b>	<b>165.68</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>1.13<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>
<b>MW2</b>	<b>11/15/05</b>	<b>173.63</b>	<b>7.65</b>	<b>165.98</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>&lt;0.5<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>
<b>MW3</b>	<b>11/15/05</b>	<b>171.91</b>	<b>6.56</b>	<b>165.35</b>	<b>57.4</b>	<b>0.95</b>	<b>62.4</b>	<b>10.5</b>	<b>452</b>	<b>193</b>	<b>&lt;0.5<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>
<b>MW4</b>	<b>11/15/05</b>	<b>170.48</b>	<b>5.80</b>	<b>164.68</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;50</b>	<b>&lt;50</b>	<b>0.730<sup>b</sup></b>

TABLE 2 GROUNDWATER MONITORING DATA, FORMER MOBIL STATION 04-334, 2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)
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- 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.

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

- TPH-g Total Petroleum Hydrocarbons as gasoline.
- TPH-d Total Petroleum Hydrocarbons as diesel.
- MTBE Methyl tertiary butyl ether.
- µg/L Micrograms per liter.

TABLE 3 GROUNDWATER MONITORING PLAN,  
 FORMER MOBIL STATION 04-334, 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

Q = Quarterly

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

MTBE = Methyl tertiary butyl ether.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TPH-d = Total Petroleum Hydrocarbons as diesel.

**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**





**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 04-334 Well No: MW 1 Date: 11/15/05  
 Project No: UP04-334.1 Personnel: RC

**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)
	19.83	7.55	12.28	X 1	2	4	6	1.96	5.89
				0.04	0.16	0.64	1.44		

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

Time	Volume Purge (gal)	Temperature (C)	pH	Spec. Cond. (umhos)	Turbidity/Color	Odor (Y/N)	Casing Volumes	Dewatered (Y/N)
13:03	2	22.2	7.35	1110	Clear/Brn	N	1	N
13:07	4	22.1	7.39	1123	Clear/Brn	N	2	N
13:12	6	22.1	7.43	1120	Clear/Brn	N	3	N

Comments/Observations:

**SAMPLING DATA**  
 Time Sampled: 13:20 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
	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: none CAP & LOCK  / N  
 Well Head Conditions Requiring Correction: none GROUT  / N  
 Problems Encountered During Purging and Sampling: none WELL BOX  / N  
 Comments: SECURED  / N

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 04-334 Well No: mw 2 Date: 11/15/05  
 Project No: UP04-334.1 Personnel: RC

**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)			
	20.07	-	7.65	=	12.42	X	1	2	4	6	1.98	=
						0.04	0.16	0.64	1.44			

**PURGING DATA**

Purge Method: WATERRA / BAILER / SUB Purge Rate: GPM

Time	12:34	12:39	12:44			
Volume Purge (gal)	2	4	6			
Temperature (C)	20.9	21.4	21.2			
pH	7.35	7.30	7.38			
Spec Cond. (umhos)	972.8	1004	985.4			
Turbidity/Color	clear / BROWN	clear / BROWN	clear / BROWN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

**SAMPLING DATA**

Time Sampled: 12:50 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
<u>MW 2</u>	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
	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: none CAP & LOCK  / N

Well Head Conditions Requiring Correction: none GROUT  / N

Problems Encountered During Purging and Sampling: none WELL BOX.  / N

Comments: SECURED  / N

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 04-334 Well No: MW3 Date: 11/15/05  
 Project No: UP04-334.1 Personnel: C. M. Scheff

**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)
	19.88	6.56	13.32	1.2	2.13	6.39
				0.04 0.16 0.64 1.44		

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

Time	Volume Purge (gal)	Temperature (C)	pH	Spec. Cond. (umhos)	Turbidity/Color	Odor (Y/N)	Casing Volumes	Dewatered (Y/N)
12:05	2.5	21.4°C	7.11	1235µS	Clear/gray	N	1	N
12:07	5	21.3°C	7.15	1237µS	Clear/gray	N	2	N
12:10	7.5	21.0°C	7.25	1240µS	Clear/gray	N	3	N

Comments/Observations:

**SAMPLING DATA**  
 Time Sampled: 12:15 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
MW3	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW3	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 7.5 (gallons) Disposal: SYSTEM

Weather Conditions: OK BOLTS Y I N

Condition of Well Box and Casing at Time of Sampling: No Leaks CAP & LOCK Y I N 2 lock

Well Head Conditions Requiring Correction: GROUT Y I N

Problems Encountered During Purging and Sampling: None WELL BOX. Y I N

Comments: SECURED Y I N

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 04-334

Well No: MW4

Date: 11/15/05

Project No: UP04-334.1

Personnel: C. M. L. 11/15/05

**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)
		14.50	5.80	8.70	1	2	4	6	1.39
				0.04	0.16	0.64	1.44		

**PURGING DATA**

Purge Method: WATERRA / BAILER / SUB

Purge Rate:

GPM

Time	1	2	3			
Volume Purge (gal)	1.5	3	4.5			
Temperature (C)	20.6°C	20.4°C				
pH	7.24	7.43				
Spec. Cond. (umhos)	1180 <sub>us</sub>	1185 <sub>us</sub>				
Turbidity/Color	5.14/Bun	5.14/Bun				
Odor (Y/N)	N	N				
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations: Dewatered pit ~ 4 gal.  
Well sampled after dechlorination  
Well dewatered again while sampling

**SAMPLING DATA**

Time Sampled:

Approximate Depth to Water During Sampling: 6 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW4	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW4	1	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 24 (gallons)

Disposal:

SYSTEM

Weather Conditions:

BOLTS (X) / N

Condition of Well Box and Casing at Time of Sampling:

CAP & LOCK Y / N Lock

Well Head Conditions Requiring Correction:

GROUT (X) / N

Problems Encountered During Purging and Sampling:

WELL BOX. (X) / N

Comments:

SECURED (Y) / N

## **Appendix C**

### **Laboratory Analytical Reports**

December 08, 2005

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

Work Order: NOK2533  
Project Name: Exxon 04-334 PO:4505802520  
Project Nbr: 04-334  
Date Received: 11/19/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW1	NOK2533-01	11/15/05 13:20
MW2	NOK2533-02	11/15/05 12:50
MW3	NOK2533-03	11/15/05 12:15
MW4	NOK2533-04	11/15/05 11:45

RECEIVED  
DEC 15 2005  
ETIC ENGINEERING

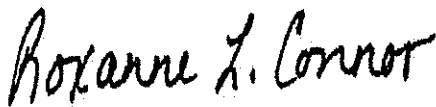
An executed copy of the chain of custody, the project quality control data, and the sample receipt form are also included as an addendum to this report. If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-800-765-0980. Any opinions, if expressed,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

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Report Approved By:



Roxanne Connor  
Senior Project Manager

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

Work Order: NOK2533  
 Project Name: Exxon 04-334 PO:4505802520  
 Project Number: 04-334  
 Received: 11/19/05 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NOK2533-01 (MW1 - Ground Water) Sampled: 11/15/05 13:20</b>									
Volatile Organic Compounds by EPA Method 8021B									
Benzene	ND		ug/L	0.50	1	11/26/05 01:28	SW846 8021B	fg	5114436
Ethylbenzene	ND		ug/L	0.50	1	11/26/05 01:28	SW846 8021B	fg	5114436
Toluene	ND		ug/L	0.50	1	11/26/05 01:28	SW846 8021B	fg	5114436
Xylenes, total	ND		ug/L	0.50	1	11/26/05 01:28	SW846 8021B	fg	5114436
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	97 %					11/26/05 01:28	SW846 8021B	fg	5114436
Selected Volatile Organic Compounds by EPA Method 8260B									
Methyl tert-Butyl Ether	1.13		ug/L	0.500	1	11/29/05 13:54	SW846 8260B	hp5	5115027
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i> (70-130%)	109 %					11/29/05 13:54	SW846 8260B	hp5	5115027
Surrogate: Dibromofluoromethane (79-122%)	104 %					11/29/05 13:54	SW846 8260B	hp5	5115027
Surrogate: Toluene- <i>d8</i> (78-121%)	102 %					11/29/05 13:54	SW846 8260B	hp5	5115027
Surrogate: <i>4</i> -Bromofluorobenzene (78-126%)	102 %					11/29/05 13:54	SW846 8260B	hp5	5115027
Extractable Petroleum Hydrocarbons									
Diesel	ND		ug/L	50.0	1	11/22/05 16:58	SW846 8015B	mcj	5113520
Surrogate: <i>o</i> -Terphenyl (55-150%)	90 %					11/22/05 16:58	SW846 8015B	mcj	5113520
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	ND		ug/L	50.0	1	11/26/05 01:28	SW846 8015B	fg	5114436
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	97 %					11/26/05 01:28	SW846 8015B	fg	5114436
<b>Sample ID: NOK2533-02 (MW2 - Ground Water) Sampled: 11/15/05 12:50</b>									
Volatile Organic Compounds by EPA Method 8021B									
Benzene	ND		ug/L	0.50	1	11/26/05 01:59	SW846 8021B	fg	5114436
Ethylbenzene	ND		ug/L	0.50	1	11/26/05 01:59	SW846 8021B	fg	5114436
Toluene	ND		ug/L	0.50	1	11/26/05 01:59	SW846 8021B	fg	5114436
Xylenes, total	ND		ug/L	0.50	1	11/26/05 01:59	SW846 8021B	fg	5114436
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	95 %					11/26/05 01:59	SW846 8021B	fg	5114436
Selected Volatile Organic Compounds by EPA Method 8260B									
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	11/27/05 04:08	SW846 8260B	hp5	5115029
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i> (70-130%)	80 %					11/27/05 04:08	SW846 8260B	hp5	5115029
Surrogate: Dibromofluoromethane (79-122%)	94 %					11/27/05 04:08	SW846 8260B	hp5	5115029
Surrogate: Toluene- <i>d8</i> (78-121%)	104 %					11/27/05 04:08	SW846 8260B	hp5	5115029
Surrogate: <i>4</i> -Bromofluorobenzene (78-126%)	93 %					11/27/05 04:08	SW846 8260B	hp5	5115029
Extractable Petroleum Hydrocarbons									
Diesel	ND		ug/L	50.0	1	11/22/05 17:18	SW846 8015B	mcj	5113520
Surrogate: <i>o</i> -Terphenyl (55-150%)	76 %					11/22/05 17:18	SW846 8015B	mcj	5113520
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	ND		ug/L	50.0	1	11/26/05 01:59	SW846 8015B	fg	5114436
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	95 %					11/26/05 01:59	SW846 8015B	fg	5114436

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Work Order: NOK2533  
 Project Name: Exxon 04-334 PO:4505802520  
 Project Number: 04-334  
 Received: 11/19/05 08:10

## ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
<b>Sample ID: NOK2533-03 (MW3 - Ground Water) Sampled: 11/15/05 12:15</b>									
Volatile Organic Compounds by EPA Method 8021B									
Benzene	57.4		ug/L	0.50	1	11/26/05 02:30	SW846 8021B	fg	5114436
Ethylbenzene	62.4		ug/L	0.50	1	11/26/05 02:30	SW846 8021B	fg	5114436
Toluene	0.95		ug/L	0.50	1	11/26/05 02:30	SW846 8021B	fg	5114436
Xylenes, total	10.5		ug/L	0.50	1	11/26/05 02:30	SW846 8021B	fg	5114436
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	99 %					11/26/05 02:30	SW846 8021B	fg	5114436
Selected Volatile Organic Compounds by EPA Method 8260B									
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	11/27/05 04:27	SW846 8260B	hp5	5114666
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i> (70-130%)	84 %					11/27/05 04:27	SW846 8260B	hp5	5114666
Surrogate: Dibromofluoromethane (79-122%)	98 %					11/27/05 04:27	SW846 8260B	hp5	5114666
Surrogate: Toluene- <i>d8</i> (78-121%)	103 %					11/27/05 04:27	SW846 8260B	hp5	5114666
Surrogate: <i>4</i> -Bromofluorobenzene (78-126%)	95 %					11/27/05 04:27	SW846 8260B	hp5	5114666
Extractable Petroleum Hydrocarbons									
Diesel	193		ug/L	50.0	1	11/22/05 17:38	SW846 8015B	mcj	5113520
Surrogate: <i>o</i> -Terphenyl (55-150%)	78 %					11/22/05 17:38	SW846 8015B	mcj	5113520
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	452		ug/L	50.0	1	11/26/05 02:30	SW846 8015B	fg	5114436
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	99 %					11/26/05 02:30	SW846 8015B	fg	5114436
<b>Sample ID: NOK2533-04 (MW4 - Ground Water) Sampled: 11/15/05 11:45</b>									
Volatile Organic Compounds by EPA Method 8021B									
Benzene	ND		ug/L	0.50	1	11/26/05 03:02	SW846 8021B	fg	5114436
Ethylbenzene	ND		ug/L	0.50	1	11/26/05 03:02	SW846 8021B	fg	5114436
Toluene	ND		ug/L	0.50	1	11/26/05 03:02	SW846 8021B	fg	5114436
Xylenes, total	ND		ug/L	0.50	1	11/26/05 03:02	SW846 8021B	fg	5114436
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	97 %					11/26/05 03:02	SW846 8021B	fg	5114436
Selected Volatile Organic Compounds by EPA Method 8260B									
Methyl tert-Butyl Ether	0.730		ug/L	0.500	1	11/27/05 04:46	SW846 8260B	hp5	5114666
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i> (70-130%)	79 %					11/27/05 04:46	SW846 8260B	hp5	5114666
Surrogate: Dibromofluoromethane (79-122%)	95 %					11/27/05 04:46	SW846 8260B	hp5	5114666
Surrogate: Toluene- <i>d8</i> (78-121%)	102 %					11/27/05 04:46	SW846 8260B	hp5	5114666
Surrogate: <i>4</i> -Bromofluorobenzene (78-126%)	93 %					11/27/05 04:46	SW846 8260B	hp5	5114666
Extractable Petroleum Hydrocarbons									
Diesel	ND		ug/L	50.0	1	11/22/05 17:57	SW846 8015B	mcj	5113520
Surrogate: <i>o</i> -Terphenyl (55-150%)	82 %					11/22/05 17:57	SW846 8015B	mcj	5113520
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	ND		ug/L	50.0	1	11/26/05 03:02	SW846 8015B	fg	5114436
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	97 %					11/26/05 03:02	SW846 8015B	fg	5114436



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

Work Order: NOK2533  
Project Name: Exxon 04-334 PO:4505802520  
Project Number: 04-334  
Received: 11/19/05 08:10

### SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
SW846 8015B	5113520	NOK2533-01	1000 00	1 00	11/21/05 09:30	NXR	EPA 3510C
SW846 8015B	5113520	NOK2533-02	1000 00	1 00	11/21/05 09:30	NXR	EPA 3510C
SW846 8015B	5113520	NOK2533-03	1000 00	1 00	11/21/05 09:30	NXR	EPA 3510C
SW846 8015B	5113520	NOK2533-04	1000 00	1 00	11/21/05 09:30	NXR	EPA 3510C

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 Project Number: 04-334  
 Received: 11/19/05 08:10

**PROJECT QUALITY CONTROL DATA**  
**Blank**

Analyte	Blank Value	Q	Units	Q C Batch	Lab Number	Analyzed Date/Time
<b>Volatile Organic Compounds by EPA Method 8021B</b>						
<b>5114436-BLK1</b>						
Benzene	<0.42		ug/L	5114436	5114436-BLK1	11/25/05 21:17
Ethylbenzene	<0.36		ug/L	5114436	5114436-BLK1	11/25/05 21:17
Toluene	<0.36		ug/L	5114436	5114436-BLK1	11/25/05 21:17
Xylenes, total	<0.36		ug/L	5114436	5114436-BLK1	11/25/05 21:17
Surrogate: <i>a,a,a</i> -Trifluorotoluene	98%			5114436	5114436-BLK1	11/25/05 21:17
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>						
<b>5114666-BLK1</b>						
Methyl tert-Butyl Ether	<0.200		ug/L	5114666	5114666-BLK1	11/27/05 00:41
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	80%			5114666	5114666-BLK1	11/27/05 00:41
Surrogate: Dibromofluoromethane	92%			5114666	5114666-BLK1	11/27/05 00:41
Surrogate: Toluene- <i>d8</i>	103%			5114666	5114666-BLK1	11/27/05 00:41
Surrogate: <i>4</i> -Bromofluorobenzene	94%			5114666	5114666-BLK1	11/27/05 00:41
<b>5115027-BLK1</b>						
Methyl tert-Butyl Ether	<0.200		ug/L	5115027	5115027-BLK1	11/29/05 11:17
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	107%			5115027	5115027-BLK1	11/29/05 11:17
Surrogate: Dibromofluoromethane	101%			5115027	5115027-BLK1	11/29/05 11:17
Surrogate: Toluene- <i>d8</i>	104%			5115027	5115027-BLK1	11/29/05 11:17
Surrogate: <i>4</i> -Bromofluorobenzene	98%			5115027	5115027-BLK1	11/29/05 11:17
<b>5115029-BLK1</b>						
Methyl tert-Butyl Ether	<0.200		ug/L	5115029	5115029-BLK1	11/27/05 00:41
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	80%			5115029	5115029-BLK1	11/27/05 00:41
Surrogate: Dibromofluoromethane	92%			5115029	5115029-BLK1	11/27/05 00:41
Surrogate: Toluene- <i>d8</i>	103%			5115029	5115029-BLK1	11/27/05 00:41
Surrogate: <i>4</i> -Bromofluorobenzene	94%			5115029	5115029-BLK1	11/27/05 00:41
<b>Extractable Petroleum Hydrocarbons</b>						
<b>5113520-BLK1</b>						
Diesel	<33.0		ug/L	5113520	5113520-BLK1	11/22/05 12:44
Surrogate: <i>o</i> -Terphenyl	72%			5113520	5113520-BLK1	11/22/05 12:44
<b>Purgeable Petroleum Hydrocarbons</b>						
<b>5114436-BLK1</b>						
GRO as Gasoline	<33.0		ug/L	5114436	5114436-BLK1	11/25/05 21:17
Surrogate: <i>a,a,a</i> -Trifluorotoluene	98%			5114436	5114436-BLK1	11/25/05 21:17

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**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>5114436-BS1</b>								
Benzene	100	107		ug/L	107%	77 - 122	5114436	11/26/05 09:17
Ethylbenzene	100	103		ug/L	103%	77 - 121	5114436	11/26/05 09:17
Toluene	100	94.1		ug/L	94%	74 - 121	5114436	11/26/05 09:17
Xylenes, total	200	204		ug/L	102%	72 - 121	5114436	11/26/05 09:17
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.0	32.4			108%	63 - 134	5114436	11/26/05 09:17
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>								
<b>5114666-BS1</b>								
Methyl tert-Butyl Ether	50.0	43.1		ug/L	86%	66 - 136	5114666	11/26/05 23:44
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	25.0	18.9			76%	70 - 130	5114666	11/26/05 23:44
Surrogate: Dibromofluoromethane	25.0	22.6			90%	79 - 122	5114666	11/26/05 23:44
Surrogate: Toluene- <i>d8</i>	25.0	25.5			102%	78 - 121	5114666	11/26/05 23:44
Surrogate: <i>4</i> -Bromofluorobenzene	25.0	23.9			96%	78 - 126	5114666	11/26/05 23:44
<b>5115027-BS1</b>								
Methyl tert-Butyl Ether	50.0	47.1		ug/L	94%	66 - 136	5115027	11/29/05 09:50
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	25.0	26.9			108%	70 - 130	5115027	11/29/05 09:50
Surrogate: Dibromofluoromethane	25.0	26.6			106%	79 - 122	5115027	11/29/05 09:50
Surrogate: Toluene- <i>d8</i>	25.0	25.4			102%	78 - 121	5115027	11/29/05 09:50
Surrogate: <i>4</i> -Bromofluorobenzene	25.0	24.8			99%	78 - 126	5115027	11/29/05 09:50
<b>5115029-BS1</b>								
Methyl tert-Butyl Ether	50.0	43.1		ug/L	86%	66 - 136	5115029	11/26/05 23:44
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	25.0	18.9			76%	70 - 130	5115029	11/26/05 23:44
Surrogate: Dibromofluoromethane	25.0	22.6			90%	79 - 122	5115029	11/26/05 23:44
Surrogate: Toluene- <i>d8</i>	25.0	25.5			102%	78 - 121	5115029	11/26/05 23:44
Surrogate: <i>4</i> -Bromofluorobenzene	25.0	23.9			96%	78 - 126	5115029	11/26/05 23:44
<b>Extractable Petroleum Hydrocarbons</b>								
<b>5113520-BS1</b>								
Diesel	1000	701	MNR1	ug/L	70%	49 - 118	5113520	11/22/05 13:03
Surrogate: <i>o</i> -Terphenyl	20.0	15.1			76%	55 - 150	5113520	11/22/05 13:03
<b>Purgeable Petroleum Hydrocarbons</b>								
<b>5114436-BS2</b>								
GRO as Gasoline	1000	1010		ug/L	101%	68 - 128	5114436	11/26/05 09:49
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.0	32.6			109%	63 - 134	5114436	11/26/05 09:49

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**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>Volatile Organic Compounds by EPA Method 8021B</b>										
<b>5114436-MS1</b>										
Benzene	1 60	66 1		ug/L	50 0	129%	50 - 159	5114436	NOK2542-07	11/26/05 08:15
Ethylbenzene	ND	61 5		ug/L	50 0	123%	50 - 155	5114436	NOK2542-07	11/26/05 08:15
Toluene	0 256	54 9		ug/L	50 0	109%	57 - 150	5114436	NOK2542-07	11/26/05 08:15
Xylenes, total	ND	124		ug/L	100	124%	48 - 151	5114436	NOK2542-07	11/26/05 08:15
<i>Surrogate: a,a,a-Trifluorotoluene</i>		30 8		ug/L	30.0	103%	63 - 134	5114436	NOK2542-07	11/26/05 08:15
<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>										
<b>5114666-MS1</b>										
Methyl tert-Butyl Ether	ND	54 8		ug/L	50 0	110%	55 - 152	5114666	NOK2572-18	11/27/05 07:17
<i>Surrogate: 1,2-Dichloroethane-d4</i>		21 0		ug/L	25 0	84%	70 - 130	5114666	NOK2572-18	11/27/05 07:17
<i>Surrogate: Dibromofluoromethane</i>		24 3		ug/L	25 0	97%	79 - 122	5114666	NOK2572-18	11/27/05 07:17
<i>Surrogate: Toluene-d8</i>		25 4		ug/L	25 0	102%	78 - 121	5114666	NOK2572-18	11/27/05 07:17
<i>Surrogate: 4-Bromofluorobenzene</i>		24 2		ug/L	25 0	97%	78 - 126	5114666	NOK2572-18	11/27/05 07:17

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**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>Volatile Organic Compounds by EPA Method 8021B</b>												
<b>5114436-MSD1</b>												
Benzene	1.60	68.8		ug/L	50.0	134%	50 - 159	4	33	5114436	NOK2542-07	11/26/05 08:46
Ethylbenzene	ND	64.6		ug/L	50.0	129%	50 - 155	5	35	5114436	NOK2542-07	11/26/05 08:46
Toluene	0.256	57.4		ug/L	50.0	114%	57 - 150	4	33	5114436	NOK2542-07	11/26/05 08:46
Xylenes, total	ND	129		ug/L	100	129%	48 - 151	4	35	5114436	NOK2542-07	11/26/05 08:46
Surrogate: <i>a,a</i> -Trifluorotoluene		30.8		ug/L	30.0	103%	63 - 134			5114436	NOK2542-07	11/26/05 08:46

<b>Selected Volatile Organic Compounds by EPA Method 8260B</b>												
<b>5114666-MSD1</b>												
Methyl tert-Butyl Ether	ND	39.2	R3	ug/L	50.0	78%	55 - 152	33	27	5114666	NOK2572-18	11/27/05 07:35
Surrogate: 1,2-Dichloroethane- <i>d</i> 4		22.9		ug/L	25.0	92%	70 - 130			5114666	NOK2572-18	11/27/05 07:35
Surrogate: Dibromofluoromethane		24.3		ug/L	25.0	97%	79 - 122			5114666	NOK2572-18	11/27/05 07:35
Surrogate: Toluene- <i>d</i> 8		25.8		ug/L	25.0	103%	78 - 121			5114666	NOK2572-18	11/27/05 07:35
Surrogate: 4-Bromofluorobenzene		24.9		ug/L	25.0	100%	78 - 126			5114666	NOK2572-18	11/27/05 07:35

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

Work Order: NOK2533  
Project Name: Exxon 04-334 PO:4505802520  
Project Number: 04-334  
Received: 11/19/05 08:10

### CERTIFICATION SUMMARY

#### TestAmerica Analytical - Nashville

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

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## 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  
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### DATA QUALIFIERS AND DEFINITIONS

**MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.  
**R3** The RPD exceeded the acceptance limit due to sample matrix effects.





