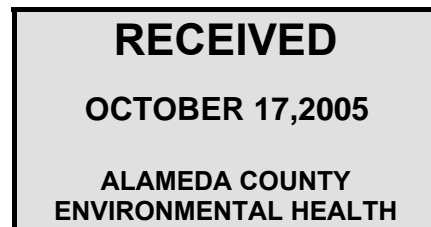


ExxonMobil
Refining & Supply Company
Global Remediation
4096 Piedmont Avenue #194
Oakland, CA 94611
510 547 8196
510 547 8706 FAX
jennifer.c.sedlachek@exxonmobil.com

Jennifer C. Sedlachek
Project Manager

ExxonMobil
Refining & Supply

October 14, 2005



Mr. Amir Gholami
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd 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, Third Quarter 2005* for the above-referenced site. The report, prepared by ETIC Engineering, Inc of Pleasant Hill, California, details the results of the August 2005 sampling event.

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

Sincerely,

A handwritten signature in black ink, appearing to read "J Sedlachek".

Jennifer C. Sedlachek
Project Manager

Attachment: ETIC Groundwater Monitoring Report dated October 2005

- c: w/ attachment:
Ms Paula Floeck – Jiffy Lube International
Mr Dan McQuillen – Jiffy Lube Remediation Coordinator
Mr William Slauterback – 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
OCTOBER 17, 2005
ALAMEDA COUNTY
ENVIRONMENTAL HEALTH

**Report of Groundwater Monitoring
 Third 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

Sherris Prall
 Project Manager

Oct. 11, 2005

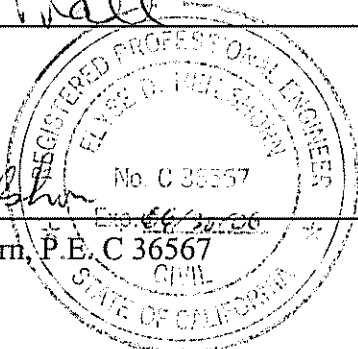
Date

Elyse D. Heilshorn

Elyse D. Heilshorn, P.E. C 36567
 Senior Engineer

Oct 11, 2005

Date



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, 2nd 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 16 May 2005, the date of the last monitoring event, through 17 August 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

Site name:	Former Mobil Station 04-334
Site address:	2492 Castro Valley Boulevard, Castro Valley, California
Current property owner:	Cal Lube Real Estate Limited Partnership I
Current site use:	Jiffy Lube Oil Change facility
Current phase of project:	Groundwater monitoring
Tanks at site:	Four former underground storage tanks removed 1983
Number of wells:	4 (3 onsite, 1 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date:	17 August 2005
Wells gauged and sampled:	MW1-MW4
Wells gauged only:	None
Groundwater flow direction:	East
Groundwater gradient:	0.017
Well screens submerged:	MW3
Well screens not submerged:	MW1, MW2, MW4
Liquid-phase hydrocarbons:	Not observed or detected
Laboratory:	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

(167.91) 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

Trash Enclosure

Existing Jiffy Lube Building

Former Used-Oil UST

Former Mobil Station Building (167.91)

Former Pump Islands

Current and Former USTs

Canopy and Pump Islands

76 Station (Former Thrifty Oil Station)



Groundwater Flow Direction
Gradient = 0.017

Big-O Tires

STANTON AVENUE

CASTRO VALLEY BOULEVARD

Benzene	231
Toluene	2.35
Ethylbenzene	102
Xylenes	11.4
TPH-g	1,130
TPH-d	416
MTBE (8260)	<0.5

Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylenes	<0.5
TPH-g	<50
TPH-d	<50
MTBE (8260)	1.19

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)	1.03



0 15 30
Scale (feet)

Parking Lot

NORTHRIDGE AVENUE

Castro Valley Lumber Company

Wendy's Restaurant



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

FIGURE:
1

FILENAME: 302005.DWG 09/14/05

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

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 ^b
MW1	11/09/04	173.23	6.96	166.27	<0.5	0.9	<0.5	0.9	<50	63	1.50 ^b
MW1	02/16/05	173.23	6.10	167.13	<0.5	1.0	<0.5	1.5	<50	78	1.30 ^b
MW1	05/16/05	173.23	5.81	167.42	<0.5	<0.5	<0.5	<0.5	<50	<50	1.40 ^b
MW1	08/17/05	173.23	6.70	166.53	<0.5	<0.5	<0.5	<0.5	<50	<50	1.19^b
MW2	a 08/13/04	173.63	6.96	166.67	<0.5	0.8	<0.5	1.0	<50	57	<0.5 ^b
MW2	11/09/04	173.63	6.44	167.19	<0.5	1.1	<0.5	1.2	<50	<50	<0.5 ^b
MW2	02/16/05	173.63	5.21	168.42	<0.5	0.9	<0.5	1.4	<50	55	<0.5 ^b
MW2	05/16/05	173.63	5.86	167.77	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 ^b
MW2	08/17/05	173.63	5.72	167.91	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5^b
MW3	a 08/13/04	171.91	5.36	166.55	100	2.0	187	59.6	1,440	352	<0.5 ^b
MW3	11/09/04	171.91	4.80	167.11	188	3.6	242	20.0	1,690	461	<0.5 ^b
MW3	02/16/05	171.91	3.10	168.81	66.2	1.4	61.1	12.6	575	269	<0.5 ^b
MW3	05/16/05	171.91	3.86	168.05	74.2	1.4	61.0	9.0	592	92	<0.5 ^b
MW3	08/17/05	171.91	4.75	167.16	231^c	2.35	102	11.4	1,130	416	<0.5^b
MW4	a 08/13/04	170.48	6.10	164.38	<0.5	0.8	<0.5	1.1	<50	72	2.80 ^b
MW4	11/09/04	170.48	5.54	164.94	<0.5	2.3	0.7	1.5	<50	<50	2.10 ^b
MW4	02/16/05	170.48	5.11	165.37	<0.5	1.1	<0.5	1.7	<50	<50	<0.5 ^b
MW4	05/16/05	170.48	5.44	165.04	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 ^b
MW4	08/17/05	170.48	5.71	164.77	<0.5	<0.5	<0.5	<0.5	<50	<50	1.03^b

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.

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)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)
---------	------	--------------------------------	-----------------------	------------------------------	----------------	----------------	----------------------	----------------------	--------------	--------------	-------------

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



ETIC
ENGINEERING

MONITORING WELL DATA FORM

Client: Exxon

Date: 8/17/05

Project Number: UP04-334

Station Number: 04-334

Site Location:
2492 Castro Valley Blvd, Castro Valley, California

Samplers: C Michele //

MONITORING WELL NUMBER	DEPTH TO WATER (TOC) FT.	DEPTH TO PRODUCT (TOC) FT.	APPARENT PRODUCT THICKNESS (FT.)	AMOUNT OF PRODUCT REMOVED (L)	MONITORING WELL INTEGRITY	DEPTH TO BOTTOM (TOC)	WELL CASING DIAMETER
MW1	6.70					19.83	2"
MW2	5.72					20.07	2"
MW3	4.75					19.88	2"
MW4	5.71					14.50	2"



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334

Well No: MW1

Date: 5/17/05

Project No: UP04-334.1

Personnel: C. M. Mc Lee II

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)
				1	2	4	6		
...	19.93	6.70	13.13	0.04	0.16	0.64	1.44	2.10	6.30

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)
9:53	2	22.2°C	7.22	1099µS	5.4 / Brn	N	1	N
9:55	4	22.3°C	7.19	1115µS	Clear / Brn	N	2	N
9:57	6	21.7°C	7.20	1117µS	Clear / Brn	N	3	N

Comments/Observations:

SAMPLING DATA

Time Sampled: 10:05

Approximate Depth to Water During Sampling: 7 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW1	6	Voa	HCL	40 ml	/	TPH-g, BTEX, MTBE
MW1	2	AMBERS	HCL	1L	/	TPH-D

Total Purge Volume: 6 (gallons)

Disposal:

SYSTEM

Weather Conditions:

04

BOLTS

(Y) / N

Condition of Well Box and Casing at Time of Sampling:

Box sinking

CAP & LOCK

Y / (N) Lock

Well Head Conditions Requiring Correction:

No lock

GROUT

Y / (N) box is sinking

Problems Encountered During Purging and Sampling:

None

WELL BOX.

Y / (N)

Comments:

SECURED

(Y) / N



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334 Well No: MW2 Date: 8/17/05
 Project No: UP04-334.1 Personnel: C. M. Johnson

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)
				1	2	4	6		
	20.07	5.72	14.35	0.04	0.16	0.64	1.44	2.30	6.89

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

Time	10:19	10:21	10:23			
Volume Purge (gal)	2	4	6			
Temperature (C)	21.6°C	21.7°C	21.1°C			
pH	7.37	7.29	7.27			
Spec. Cond. (umhos)	917.8 μS	973.1 μS	976.2 μS			
Turbidity/Color	S. Hy / Bin	S. Hy / Bin	S. Hy / Bin			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA
 Time Sampled: 10:30 Approximate Depth to Water During Sampling: 6 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW2	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW2	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 6 (gallons) Disposal: SYSTEM

Weather Conditions: OK BOLTS (X) / N

Condition of Well Box and Casing at Time of Sampling: No Lock CAP & LOCK (X) / (N) Lock

Well Head Conditions Requiring Correction: GROUT (X) / N

Problems Encountered During Purging and Sampling: None WELL BOX. (X) / N

Comments: SECURED (X) / N



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334	Well No: MW3	Date: 8/17/05
Project No: UP04-334.1	Personnel: C. M. L. 1/1	

GAUGING DATA									
Water Level Measuring Method: <u>WLM</u> 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)
	19.85	4.75	15.13	1	2	4	6	2.42	7.26
				0.04	0.16	0.64	1.44		

PURGING DATA						
Purge Method: <u>WATERRA</u> BAILER / SUB				Purge Rate:		GPM
Time	9:25	9:27	9:30			
Volume Purge (gal)	2	4	6			
Temperature (C)	21.6°C	22.0°C	22.0°C			
pH	6.92	6.91	6.96			
Spec. Cond. (umhos)	1194 _{us}	1227 _{us}	1217 _{us}			
Turbidity/Color	5.4 _{ty} /B _{rn}	5.4 _{ty} /B _{rn}	5.4 _{ty} /B _{rn}			
Odor (Y/N)	Y	Y	Y			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA		
Time Sampled: 9:35	Approximate Depth to Water During Sampling: 5 (feet)	

Comments:						
Sample Number	Number of Containers	Container Type	Perservative	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: 6 (gallons)	Disposal: SYSTEM
Weather Conditions:	BOLTS (Y) / (N)
Condition of Well Box and Casing at Time of Sampling: No Lock	CAP & LOCK (Y) / (N) - Lock
Well Head Conditions Requiring Correction:	GROUT (Y) / (N)
Problems Encountered During Purging and Sampling: None	WELL BOX. (Y) / (N)
Comments:	SECURED (Y) / (N)



Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 04-334

Well No: MW 4

Date: 6/17/05

Project No: UP04-334.1

Personnel: C. M. Feltz II

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)
				1	2	4	6		
...	14.50	5.71	8.79	0.04	0.16	0.64	1.44	1.41	4.22

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)
8:54	1	20.3°C	6.24	1152µS	S.Ly/Bin	Y	1	N
8:56	2	20.5°C	6.57	1136µS	S.Ly/Bin	N	2	N
8:58	3	20.4°C	6.72	1155µS	S.Ly/Bin	N	3	N

Comments/Observations:

SAMPLING DATA

Time Sampled: 9:05

Approximate Depth to Water During Sampling: 6 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Perservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW 4	6	Voa	HCL	40 ml	/	TPH-g, BTEX, MTBE
MW 4	2	AMBERS	HCL	1L	/	TPH-D

Total Purge Volume: 3 (gallons)

Disposal:

SYSTEM

Weather Conditions:

Condition of Well Box and Casing at Time of Sampling: No Leaks

Well Head Conditions Requiring Correction:

Problems Encountered During Purging and Sampling: None

Comments:

BOLTS (X) / N
 CAP & LOCK (X) / (N) - Local
 GROUT (Y) / N
 WELL BOX. (X) / N
 SECURED (Y) / N

Appendix C

Laboratory Analytical Reports

September 14, 2005

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

Work Order: NOH1571
Project Name: Exxon 04-334 PO:4505802520
Project Nbr: 04-334
Date Received: 08/18/05

SAMPLE IDENTIFICATION	LAB NUMBER	COLLECTION DATE AND TIME
MW1	NOH1571-01	08/17/05 10:05
MW2	NOH1571-02	08/17/05 10:30
MW3	NOH1571-03	08/17/05 09:35
MW4	NOH1571-04	08/17/05 09:05

RECEIVED

SEP 23 2005

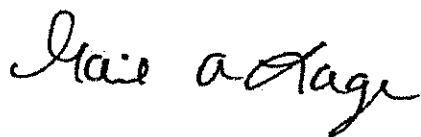
ETIC ENGINEERING

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

Report Approved By:



Gail Lage

Senior Project Manager

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

Work Order: NOH1571
 Project Name: Exxon 04-334 PO:4505802520
 Project Number: 04-334
 Received: 08/18/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOH1571-01 (MW1 - Water) Sampled: 08/17/05 10:05									
Volatile Organic Compounds by EPA Method 8021B									
Benzene	ND		ug/L	0.50	1	08/28/05 21:56	SW846 8021B	kc	5083438
Ethylbenzene	ND		ug/L	0.50	1	08/28/05 21:56	SW846 8021B	kc	5083438
Toluene	ND		ug/L	0.50	1	08/28/05 21:56	SW846 8021B	kc	5083438
Xylenes, total	ND		ug/L	0.50	1	08/28/05 21:56	SW846 8021B	kc	5083438
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	102 %					08/28/05 21:56	SW846 8021B	kc	5083438
Selected Volatile Organic Compounds by EPA Method 8260B									
Methyl tert-Butyl Ether	1.19		ug/L	0.500	1	08/27/05 00:52	SW846 8260B	HP2	5082858
Surrogate: <i>1,2</i> -Dichloroethane- <i>d</i> 4 (70-130%)	92 %					08/27/05 00:52	SW846 8260B	HP2	5082858
Surrogate: Dibromofluoromethane (79-122%)	99 %					08/27/05 00:52	SW846 8260B	HP2	5082858
Surrogate: Toluene- <i>d</i> 8 (78-121%)	103 %					08/27/05 00:52	SW846 8260B	HP2	5082858
Surrogate: <i>4</i> -Bromofluorobenzene (78-126%)	95 %					08/27/05 00:52	SW846 8260B	HP2	5082858
Extractable Petroleum Hydrocarbons									
Diesel	ND		ug/L	50.0	1	08/22/05 22:20	SW846 8015B	mcj	5082054
Surrogate: <i>o</i> -Terphenyl (55-150%)	74 %					08/22/05 22:20	SW846 8015B	mcj	5082054
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	ND		ug/L	50.0	1	08/28/05 21:56	SW846 8015B	kc	5083438
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	102 %					08/28/05 21:56	SW846 8015B	kc	5083438
Sample ID: NOH1571-02 (MW2 - Water) Sampled: 08/17/05 10:30									
Volatile Organic Compounds by EPA Method 8021B									
Benzene	ND		ug/L	0.50	1	08/28/05 22:10	SW846 8021B	kc	5083438
Ethylbenzene	ND		ug/L	0.50	1	08/28/05 22:10	SW846 8021B	kc	5083438
Toluene	ND		ug/L	0.50	1	08/28/05 22:10	SW846 8021B	kc	5083438
Xylenes, total	ND		ug/L	0.50	1	08/28/05 22:10	SW846 8021B	kc	5083438
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	83 %					08/28/05 22:10	SW846 8021B	kc	5083438
Selected Volatile Organic Compounds by EPA Method 8260B									
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	08/27/05 01:16	SW846 8260B	HP2	5082858
Surrogate: <i>1,2</i> -Dichloroethane- <i>d</i> 4 (70-130%)	92 %					08/27/05 01:16	SW846 8260B	HP2	5082858
Surrogate: Dibromofluoromethane (79-122%)	100 %					08/27/05 01:16	SW846 8260B	HP2	5082858
Surrogate: Toluene- <i>d</i> 8 (78-121%)	103 %					08/27/05 01:16	SW846 8260B	HP2	5082858
Surrogate: <i>4</i> -Bromofluorobenzene (78-126%)	96 %					08/27/05 01:16	SW846 8260B	HP2	5082858
Extractable Petroleum Hydrocarbons									
Diesel	ND		ug/L	50.0	1	08/22/05 22:39	SW846 8015B	mcj	5082054
Surrogate: <i>o</i> -Terphenyl (55-150%)	77 %					08/22/05 22:39	SW846 8015B	mcj	5082054
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	ND		ug/L	50.0	1	08/28/05 22:10	SW846 8015B	kc	5083438
Surrogate: <i>a,a,a</i> -Trifluorotoluene (63-134%)	83 %					08/28/05 22:10	SW846 8015B	kc	5083438

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

Work Order: NOH1571
 Project Name: Exxon 04-334 PO:4505802520
 Project Number: 04-334
 Received: 08/18/05 08:00

ANALYTICAL REPORT

Analyte	Result	Flag	Units	MRL	Dilution Factor	Analysis Date/Time	Method	Analyst	Batch
Sample ID: NOH1571-03 (MW3 - Water) Sampled: 08/17/05 09:35									
Volatile Organic Compounds by EPA Method 8021B									
Benzene	231	E3	ug/L	0.50	1	08/28/05 22:25	SW846 8021B	kc	5083438
Ethylbenzene	102		ug/L	0.50	1	08/28/05 22:25	SW846 8021B	kc	5083438
Toluene	2.35		ug/L	0.50	1	08/28/05 22:25	SW846 8021B	kc	5083438
Xylenes, total	11.4		ug/L	0.50	1	08/28/05 22:25	SW846 8021B	kc	5083438
Surrogate: a,a,a-Trifluorotoluene (63-134%)	104 %					08/28/05 22:25	SW846 8021B	kc	5083438
Selected Volatile Organic Compounds by EPA Method 8260B									
Methyl tert-Butyl Ether	ND		ug/L	0.500	1	08/27/05 01:40	SW846 8260B	HP2	5082858
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	92 %					08/27/05 01:40	SW846 8260B	HP2	5082858
Surrogate: Dibromofluoromethane (79-122%)	99 %					08/27/05 01:40	SW846 8260B	HP2	5082858
Surrogate: Toluene-d8 (78-121%)	105 %					08/27/05 01:40	SW846 8260B	HP2	5082858
Surrogate: 4-Bromofluorobenzene (78-126%)	94 %					08/27/05 01:40	SW846 8260B	HP2	5082858
Extractable Petroleum Hydrocarbons									
Diesel	416		ug/L	50.0	1	08/22/05 22:58	SW846 8015B	mcj	5082054
Surrogate: o-Terphenyl (55-150%)	94 %					08/22/05 22:58	SW846 8015B	mcj	5082054
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	1130		ug/L	50.0	1	08/28/05 22:25	SW846 8015B	kc	5083438
Surrogate: a,a,a-Trifluorotoluene (63-134%)	104 %					08/28/05 22:25	SW846 8015B	kc	5083438
Sample ID: NOH1571-04 (MW4 - Water) Sampled: 08/17/05 09:05									
Volatile Organic Compounds by EPA Method 8021B									
Benzene	ND		ug/L	0.50	1	08/28/05 22:39	SW846 8021B	kc	5083438
Ethylbenzene	ND		ug/L	0.50	1	08/28/05 22:39	SW846 8021B	kc	5083438
Toluene	ND		ug/L	0.50	1	08/28/05 22:39	SW846 8021B	kc	5083438
Xylenes, total	ND		ug/L	0.50	1	08/28/05 22:39	SW846 8021B	kc	5083438
Surrogate: a,a,a-Trifluorotoluene (63-134%)	79 %					08/28/05 22:39	SW846 8021B	kc	5083438
Selected Volatile Organic Compounds by EPA Method 8260B									
Methyl tert-Butyl Ether	1.03		ug/L	0.500	1	08/27/05 02:04	SW846 8260B	HP2	5082858
Surrogate: 1,2-Dichloroethane-d4 (70-130%)	92 %					08/27/05 02:04	SW846 8260B	HP2	5082858
Surrogate: Dibromofluoromethane (79-122%)	100 %					08/27/05 02:04	SW846 8260B	HP2	5082858
Surrogate: Toluene-d8 (78-121%)	104 %					08/27/05 02:04	SW846 8260B	HP2	5082858
Surrogate: 4-Bromofluorobenzene (78-126%)	96 %					08/27/05 02:04	SW846 8260B	HP2	5082858
Extractable Petroleum Hydrocarbons									
Diesel	ND		ug/L	50.0	1	08/22/05 23:17	SW846 8015B	mcj	5082054
Surrogate: o-Terphenyl (55-150%)	74 %					08/22/05 23:17	SW846 8015B	mcj	5082054
Purgeable Petroleum Hydrocarbons									
GRO as Gasoline	ND		ug/L	50.0	1	08/28/05 22:39	SW846 8015B	kc	5083438
Surrogate: a,a,a-Trifluorotoluene (63-134%)	79 %					08/28/05 22:39	SW846 8015B	kc	5083438

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

Work Order: NOH1571
Project Name: Exxon 04-334 PO:4505802520
Project Number: 04-334
Received: 08/18/05 08:00

SAMPLE EXTRACTION DATA

Parameter	Batch	Lab Number	Wt/Vol Extracted	Extracted Vol	Date	Analyst	Extraction Method
Extractable Petroleum Hydrocarbons							
SW846 8015B	5082054	NOH1571-01	1000 00	1 00	08/22/05 07:00	ADG	EPA 3510C
SW846 8015B	5082054	NOH1571-02	1000 00	1 00	08/22/05 07:00	ADG	EPA 3510C
SW846 8015B	5082054	NOH1571-03	1000 00	1 00	08/22/05 07:00	ADG	EPA 3510C
SW846 8015B	5082054	NOH1571-04	1000 00	1 00	08/22/05 07:00	ADG	EPA 3510C

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Work Order: NOH1571
 Project Name: Exxon 04-334 PO:4505802520
 Project Number: 04-334
 Received: 08/18/05 08:00

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						
5083438-BLK1						
Benzene	<0.19		ug/L	5083438	5083438-BLK1	08/28/05 16:51
Ethylbenzene	<0.20		ug/L	5083438	5083438-BLK1	08/28/05 16:51
Toluene	<0.20		ug/L	5083438	5083438-BLK1	08/28/05 16:51
Xylenes, total	<0.50		ug/L	5083438	5083438-BLK1	08/28/05 16:51
Surrogate <i>a.a.a-Trifluorotoluene</i>	104%			5083438	5083438-BLK1	08/28/05 16:51
Selected Volatile Organic Compounds by EPA Method 8260B						
5082858-BLK1						
Methyl tert-Butyl Ether	<0.230		ug/L	5082858	5082858-BLK1	08/26/05 19:59
Surrogate: <i>1,2-Dichloroethane-d4</i>	85%			5082858	5082858-BLK1	08/26/05 19:59
Surrogate: <i>Dibromofluoromethane</i>	99%			5082858	5082858-BLK1	08/26/05 19:59
Surrogate <i>Toluene-d8</i>	105%			5082858	5082858-BLK1	08/26/05 19:59
Surrogate: <i>4-Bromofluorobenzene</i>	98%			5082858	5082858-BLK1	08/26/05 19:59
Extractable Petroleum Hydrocarbons						
5082054-BLK2						
Diesel	<33.0		ug/L	5082054	5082054-BLK2	08/23/05 07:38
Surrogate: <i>o-Terphenyl</i>	88%			5082054	5082054-BLK2	08/23/05 07:38
Purgeable Petroleum Hydrocarbons						
5083438-BLK1						
GRO as Gasoline	<33.0		ug/L	5083438	5083438-BLK1	08/28/05 16:51
Surrogate <i>a.a.a-Trifluorotoluene</i>	104%			5083438	5083438-BLK1	08/28/05 16:51

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Work Order: NOH1571
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 Project Number: 04-334
 Received: 08/18/05 08:00

PROJECT QUALITY CONTROL DATA
LCS

Analyte	Known Val	Analyzed Val	Q	Units	% Rec	Target Range	Batch	Analyzed Date/Time
Volatile Organic Compounds by EPA Method 8021B								
5083438-BS1								
Benzene	100	96.7		ug/L	97%	72 - 118	5083438	08/28/05 23:23
Ethylbenzene	100	98.3		ug/L	98%	71 - 119	5083438	08/28/05 23:23
Toluene	100	94.8		ug/L	95%	72 - 119	5083438	08/28/05 23:23
Xylenes, total	200	196		ug/L	98%	70 - 117	5083438	08/28/05 23:23
Surrogate: <i>a,a,a</i> -Trifluorotoluene	30.0	31.5			105%	63 - 134	5083438	08/28/05 23:23
Selected Volatile Organic Compounds by EPA Method 8260B								
5082858-BS1								
Methyl tert-Butyl Ether	50.0	48.2		ug/L	96%	66 - 136	5082858	08/26/05 18:23
Surrogate: <i>1,2</i> -Dichloroethane- <i>d4</i>	25.0	19.5			78%	70 - 130	5082858	08/26/05 18:23
Surrogate: Dibromofluoromethane	25.0	24.2			97%	79 - 122	5082858	08/26/05 18:23
Surrogate: Toluene- <i>d8</i>	25.0	26.6			106%	78 - 121	5082858	08/26/05 18:23
Surrogate: <i>4</i> -Bromofluorobenzene	25.0	22.8			91%	78 - 126	5082858	08/26/05 18:23
Extractable Petroleum Hydrocarbons								
5082054-BS2								
Diesel	1000	770		ug/L	77%	43 - 119	5082054	08/23/05 07:57
Surrogate: <i>o</i> -Terphenyl	20.0	16.3			82%	55 - 150	5082054	08/23/05 07:57
Purgeable Petroleum Hydrocarbons								
5083438-BS2								
GRO as Gasoline	1000	1130		ug/L	113%	64 - 130	5083438	08/28/05 23:52
Surrogate <i>a,a,a</i> -Trifluorotoluene	30.0	31.6			105%	63 - 134	5083438	08/28/05 23:52

Client ETIC Engineering Pleasant Hill (10236)
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 Received: 08/18/05 08:00

PROJECT QUALITY CONTROL DATA
Matrix Spike

Analyte	Orig Val	MS Val	Q	Units	Spike Conc	% Rec	Target Range	Batch	Sample Spiked	Analyzed Date/Time
Selected Volatile Organic Compounds by EPA Method 8260B										
5082858-MS1										
Methyl tert-Butyl Ether	ND	53.8		ug/L	50.0	108%	46 - 158	5082858	NOH1546-01	08/27/05 03:40
Surrogate: 1,2-Dichloroethane-d4		20.1		ug/L	25.0	80%	70 - 130	5082858	NOH1546-01	08/27/05 03:40
Surrogate: Dibromofluoromethane		24.7		ug/L	25.0	99%	79 - 122	5082858	NOH1546-01	08/27/05 03:40
Surrogate: Toluene-d8		26.3		ug/L	25.0	105%	78 - 121	5082858	NOH1546-01	08/27/05 03:40
Surrogate: 4-Bromofluorobenzene		23.1		ug/L	25.0	92%	78 - 126	5082858	NOH1546-01	08/27/05 03:40

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Work Order: NOH1571
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 Project Number: 04-334
 Received: 08/18/05 08:00

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
Selected Volatile Organic Compounds by EPA Method 8260B												
5082858-MSD1												
Methyl tert-Butyl Ether	ND	50.4		ug/L	50.0	101%	46 - 158	7	31	5082858	NOH1546-01	08/27/05 04:04
Surrogate: 1,2-Dichloroethane-d4		19.8		ug/L	25.0	79%	70 - 130			5082858	NOH1546-01	08/27/05 04:04
Surrogate: Dibromofluoromethane		24.7		ug/L	25.0	99%	79 - 122			5082858	NOH1546-01	08/27/05 04:04
Surrogate: Toluene-d8		26.5		ug/L	25.0	106%	78 - 121			5082858	NOH1546-01	08/27/05 04:04
Surrogate: 4-Bromofluorobenzene		23.1		ug/L	25.0	92%	78 - 126			5082858	NOH1546-01	08/27/05 04:04

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

Work Order: NOH1571
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Project Number: 04-334
Received: 08/18/05 08:00

CERTIFICATION SUMMARY

TestAmerica Analytical - Nashville

Method	Matrix	ACIL	AIHA	Nelac	California
SW846 8015B	Water			X	X
SW846 8021B	Water			X	X
SW846 8260B	Water			X	X

DATA QUALIFIERS AND DEFINITIONS

E3 Concentration estimated. Analyte exceeded calibration range. Reanalysis not performed due to holding time requirements.

Consultant Name: ETIC ENGINEERING

Report To: Sherris Prall

NOH1571

Address: 2285 MORELLO AVENUE

Invoice To: JENNIFER SEDLACHEK (EXXONMOBIL TM)

08/29/05 17:00

City/State/Zip: PLEASANT HILL, CA 94523

Account #: 10236

ExxonMobil Project Mgr: JENNIFER SEDLACHEK

PO #: 4505802520

Telephone Number: (925) 602-4710 EXT. 24

Fax No.: (925) 602-4720

Facility ID # 04-334

Sampler Name: (Print) Christopher L. Mitchell

Site Address 2492 CASTRO VALLEY BOULEVARD

Sampler Signature: [Signature]

City, State Zip CASTRO VALLEY, CA

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:				RUSH TAT (Pre-Schedule TAT request (in Bus. Days)	STD TAT	Fax Results						
							Ice	HNO ₃ (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H ₂ SO ₄ Plastic (Yellow Label)	H ₂ SO ₄ Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (Specify):	TPH-G BY 8015B	TPH-D BY 8015B/80510				BTEX BY 8012B	MTBE BY 8260B				
MW1 NOH1571-01	8/17	1005	8				X	X							X					X	X	X	X						X		
MW2	02	1030	8				X	X							X					X	X	X	X						X		
MW3	03	935	8				X	X							X					X	X	X	X						X		
MW4	04	905	8				X	X							X					X	X	X	X						X		

Special Instructions: *** USE SILICAGEL CLEANUP FOR TPH-D ANALYSIS.**

GLOBAL ID# T0600101278

EDF FILE REQUIRED

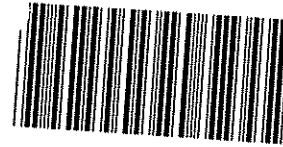
Laboratory Comments:

Temperature Upon Receipt: 1.5 °C

Sample Containers Intact? N

VOCs Free of Headspace? N

Relinquished by:	Date	Time	Received by:	Date	Time
<u>[Signature]</u>	<u>8/17/05</u>	<u>1300</u>			
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			<u>[Signature]</u>	<u>8/18/05</u>	<u>800</u>



COOLER RECEIPT FORM

BC#

NOH1571

Client Name : ETIC Engineering

Cooler Received/Opened On: 8/18/05 Accessioned By: James D. Jacobs

[Signature]
Log-in Personnel Signature

1. Temperature of Cooler when triaged: 1.5 Degrees Celsius
2. Were custody seals on outside of cooler?..... YES...NO...NA
 a. If yes, how many and where: 1 Front
3. Were custody seals on containers?..... NO...YES...NA
4. Were the seals intact, signed, and dated correctly?..... YES...NO...NA
5. Were custody papers inside cooler?..... YES...NO...NA
6. Were custody papers properly filled out (ink, signed, etc)?..... YES...NO...NA
7. Did you sign the custody papers in the appropriate place?..... YES...NO...NA
8. What kind of packing material used? Bubblewrap Peanuts Vermiculite Foam Insert
 Ziplock baggies 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
13. Were correct containers used for the analysis requested?..... YES...NO...NA
14. a. Were VOA vials received?..... YES...NO...NA
 b. Was there any observable head space present in any VOA vial?..... NO...YES...NA
15. Was sufficient amount of sample sent in each container?..... YES...NO...NA
16. Were correct preservatives used?..... YES...NO...NA

If not, record standard ID of preservative used here _____

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

18. Indicate the Airbill Tracking Number (last 4 digits for Fedex only) and Name of Courier below:

6196, 6200

Fed-Ex UPS Velocity DHL Route Off-street Misc.

19. If a Non-Conformance exists, see attached or comments below: