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Jennifer C. Sedlachek
Project Manager

ExxonMobil

February 25, 2009

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, 2nd 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, First Quarter 2009* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the January 2009 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

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.

ETIC ENGINEERING

Report of Groundwater Monitoring
First Quarter 2009

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

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

PROFESSIONAL GEOLOGIST
KRISTOPHER ERIK APPEL
No. 8092
STATE OF CALIFORNIA

February 25, 2009
Date

February 2009

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, 2nd Floor Alameda, California 94502 (510) 567-6700

INTRODUCTION

ETIC Engineering, Inc. (ETIC) 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 7 November 2008, the date of the previous monitoring event to 29 January 2009, 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

Site name:	Former Mobil Station 04334
Site address:	2492 Castro Valley Boulevard, Castro Valley, California
Current property owner:	Cal Lube Real Estate Limited Partnership
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:	29 January 2009
Wells gauged and sampled:	MW1-MW4
Wells gauged only:	None
Groundwater flow direction:	Southeast
Groundwater gradient:	0.0068
Well screens submerged:	None
Well screens not submerged:	MW1, MW2, MW3, MW4
Liquid-phase hydrocarbons:	Not observed or detected
Laboratory:	Calscience Environmental Laboratories, Inc., Garden Grove, California

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

On 29 and 30 January 2009, one offsite well was installed. A well installation report will be submitted under separate cover and the well will be added to the groundwater monitoring plan.

WORK PROPOSED FOR NEXT QUARTER

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

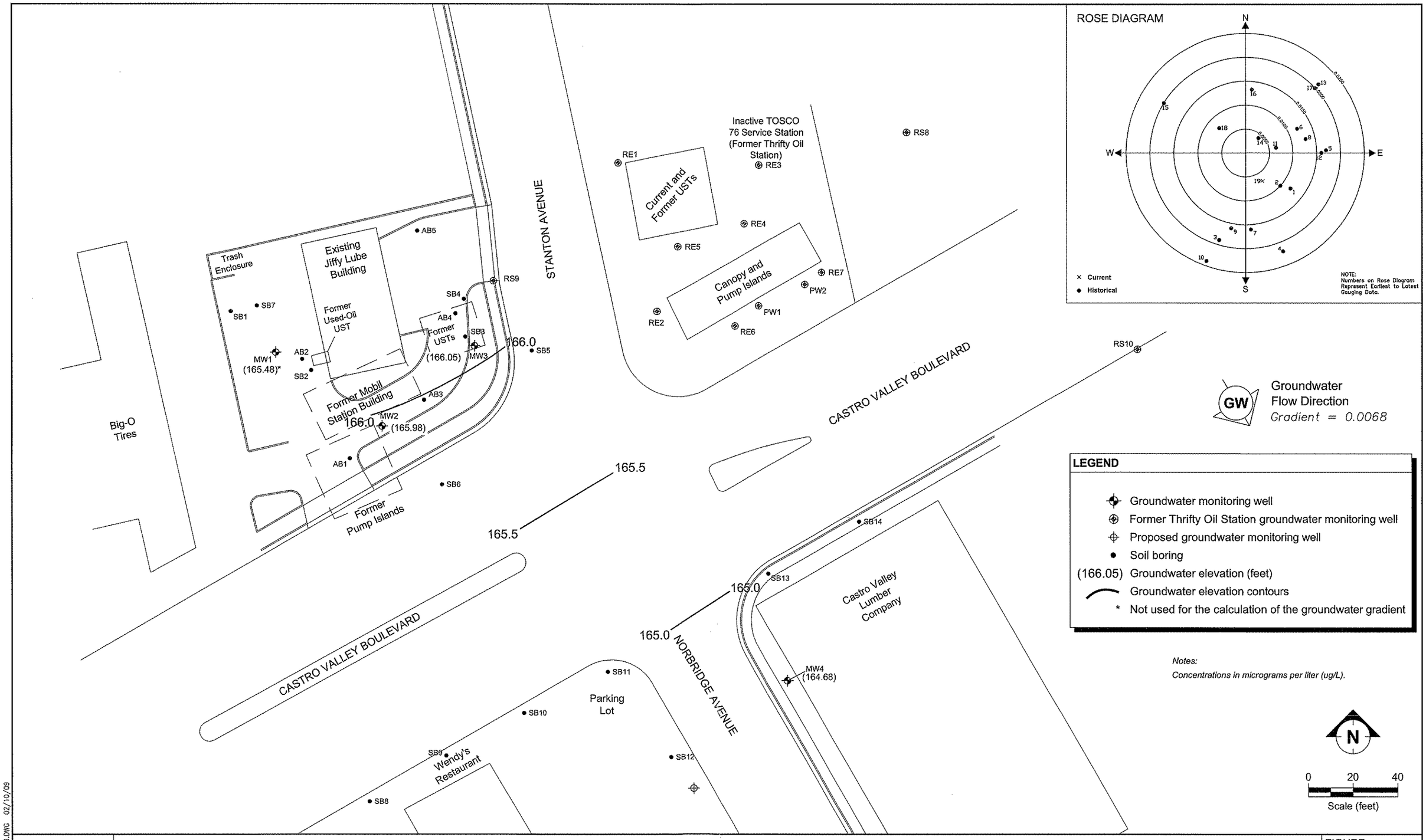
Attachments:

Figure 1: Site Map Showing Groundwater Elevations and Contours
Figure 2: Site Map Showing 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

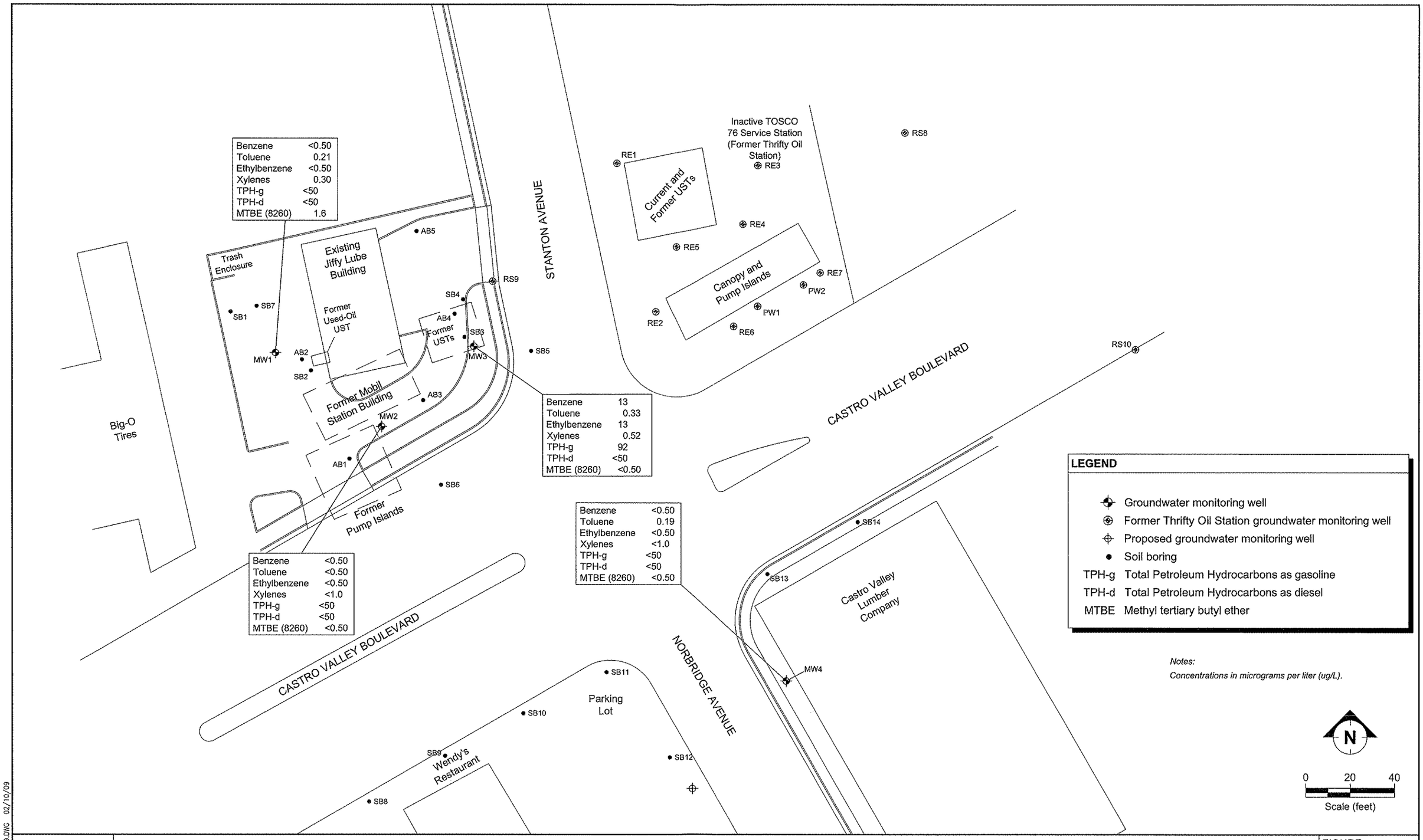


SITE MAP SHOWING GROUNDWATER ELEVATIONS AND CONTOURS
FORMER MOBIL STATION 04334
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA
29 JANUARY 2009

ETIC ENGINEERING

FIGURE: 1

FILENAME: 1Q2009.DWG 02/10/09



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SITE MAP SHOWING ANALYTICAL RESULTS
FORMER MOBIL STATION 04334
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA
29 JANUARY 2009

FIGURE: **2**

FILENAME: 1Q2009.DWG 02/10/09

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 [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]
MW1		11/15/05	173.23	7.55	165.68	<0.5	<0.5	<0.5	<0.5	<50	<50	1.13 [b]
MW1		02/06/06	173.23	6.40	166.83	<0.5	<0.5	<0.5	<0.5	<50	160	<0.5 [b]
MW1		05/03/06	173.23	6.95	166.28	<1.00	<1.00	<1.00	<3.00	<50.0	78	<0.50 [b]
MW1		08/04/06	173.23	7.71	165.52	<0.50	<0.50	<0.50	<0.50	<50.0	167	<0.500 [b]
MW1		11/06/06	173.23	7.57	165.66	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	0.880 [b]
MW1		02/21/07	173.23	7.19	166.04	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	2.42 [b]
MW1		08/01/07	173.23	8.00	165.23	3.02	4.18	0.89	3.96	90.8	<47	1.54[b]
MW1		10/25/07	173.23	7.90	165.33	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	1.63[b]
MW1		01/31/08	173.23	6.60	166.63	<0.50	<0.50	<0.50	<0.50	<50	<50	1.8[b]
MW1		05/01/08	173.23	7.80	165.43	<1.00	<1.00	<1.00	<3.00	<50.0	<47.2	1.67[b]
MW1		07/31/08	173.23	8.15	165.08	<0.50	<0.50	<0.50	<0.50	<50	<47	1.7[b]
MW1		11/07/08	173.23	8.11	165.12	<0.50	<0.50	<0.50	<0.50	<50	<47	1.4[b]
MW1		**01/29/09**	**173.23**	**7.75**	**165.48**	**<0.50**	**0.21[e,f]**	**<0.50**	**0.30[e,f]**	**<50**	**<50**	**1.6[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]
MW2		11/15/05	173.63	7.65	165.98	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 [b]
MW2		02/06/06	173.63	6.24	167.39	<0.5	<0.5	<0.5	<0.5	<50	<50	<0.5 [b]
MW2		05/03/06	173.63	6.53	167.10	<1.00	<1.00	<1.00	<3.00	<50.0	<50	<0.50[b]

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		08/04/06	173.63	7.65	165.98	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500[b]
MW2		11/06/06	173.63	6.98	166.65	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.500[b]
MW2		02/21/07	173.63	6.36	167.27	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	1.70[b]
MW2		05/01/07	173.63	7.51	166.12	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.50[b]
MW2		08/01/07	173.63	8.12	165.51	<0.50	<0.50	<0.50	<0.50	<50.0	<47	<0.500[b]
MW2		10/25/07	173.63	7.79	165.84	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500[b]
MW2		01/31/08	173.63	5.89	167.74	<0.50	<0.50	<0.50	<0.50	<50	<50	0.82[b]
MW2		05/01/08	173.63	7.81	165.82	<1.00	<1.00	<1.00	<3.00	<50.0	<47.2	<0.500[b]
MW2		07/31/08	173.63	8.30	165.33	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]
MW2		11/07/08	173.63	8.09	165.54	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]
MW2		**01/29/09**	**173.63**	**7.65**	**165.98**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**<0.50[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]
MW3		11/15/05	171.91	6.56	165.35	57.4	0.95	62.4	10.5	452	193	<0.5[b]
MW3		02/06/06	171.91	4.00	167.91	69	<5.0	64	10	830	165	<0.5[b]
MW3		05/03/06	171.91	5.44	166.47	52.1	<1.00	37.0	4.81	605	140	<0.50[b]
MW3		08/04/06	171.91	5.25	166.66	15.2	<0.50	5.34	1.25	262	108	<0.500[b]
MW3		11/06/06	171.91	4.11	167.80	60.0	1.04	47.3	3.09	561	106	<0.500[b]
MW3		02/21/07	171.91	4.94	166.97	35.1	<0.50	45.4	1.09	483	125	<0.500[b]
MW3		05/01/07	171.91	5.86	166.05	32.5	1.63	28.7	1.53	539	120	<0.50[b]
MW3		08/01/07	171.91	7.54	164.37	1.26	0.60	<0.50	<0.50	89.2	<47	<0.500[b]
MW3		10/25/07	171.91	6.30	165.61	2.94	<0.50	<0.50	<0.50	50.4	<47.2	<0.500[b]
MW3		01/31/08	171.91	3.75	168.16	10	<0.50	11	<0.50	120	51[d]	<0.50[b]

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
MW3		05/01/08	171.91	6.60	165.31	2.38	<1.00	<1.00	<3.00	<50.0	<47.2	<0.500[b]
MW3		07/31/08	171.91	7.77	164.14	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]
MW3		11/07/08	171.91	6.34	165.57	3.6	<0.50	1.4	<0.50	<50	<47	<0.50[b]
MW3		**01/29/09**	**171.91**	**5.86**	**166.05**	**13**	**0.33[e]**	**13**	**0.52[e,f]**	**92**	**<50**	**<0.50[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]
MW4		11/15/05	170.48	5.80	164.68	<0.5	<0.5	<0.5	<0.5	<50	<50	0.730 [b]
MW4		02/06/06	170.48	5.10	165.38	<0.5	<0.5	<0.5	<0.5	<50	85.2	<0.5 [b]
MW4		05/03/06	170.48	5.54	164.94	<1.00	<1.00	<1.00	<3.00	<50.0	<47	<0.50 [b]
MW4		08/04/06	170.48	5.75	164.73	<0.50	<0.50	<0.50	<0.50	<50.0	52.7	<0.500 [b]
MW4		11/06/06	170.48	5.95	164.53	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500 [b]
MW4		02/21/07	170.48	5.56	164.92	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.500 [b]
MW4		05/01/07	170.48	5.66	164.82	<0.50	<0.50	<0.50	<0.50	<50.0	<46.9	<0.50 [b]
MW4		08/01/07	170.48	6.06	164.42	0.85	<0.50	<0.50	0.97	<50.0	<47	<0.870[b]
MW4		10/25/07	170.48	5.34	165.14	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500[b]
MW4		01/31/08	170.48	5.05	165.43	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]
MW4		05/01/08	170.48	5.86	164.62	<1.00	<1.00	<1.00	<3.00	<50.0	<47.2	<0.500[b]
MW4		07/31/08	170.48	6.10	164.38	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]
MW4		11/07/08	170.48	5.65	164.83	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50[b]
MW4		**01/29/09**	**170.48**	**5.80**	**164.68**	**<0.50**	**0.19[e,f]**	**<0.50**	**<1.0**	**<50**	**<50**	**<0.50[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.

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

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.
e Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
f Analyte presence was not confirmed by second column or GC/MS analysis.

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

ETIC ENGINEERING

MONITORING WELL DATA FORM

Client: **Former Exxon 04334**

Date: 01/29/09

Project Number: **UP04334.1.6**

Station Number: **04334**

Site Location: **2492 Castro Valley Boulevard, Castro Valley, California**

Samplers: TJW DSR

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	7.75					19.70	**2"**
MW2	7.65					20.00	**2"**
MW3	5.86					19.90	**2"**
MW4	5.80					14.00	**2"**

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW1	Date: 01/29/09
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)
	19.70	−	7.75	=	11.95	X	1	(2)	4	6	1.91	=	5.73
							0.04	0.16	0.64	1.44			

PURGING DATA

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

Time	0758	0801	0804			
Volume Purge (gal)	2.00	4.00	6.00			
Temperature (C)	18.3	19.0	19.7			
pH	6.85	6.92	6.99			
Spec.Cond.(umhos)	975	981	972			
Turbidity/Color	SLGHT CLOUDY	SLGHT CLOUDY	SLGHT CLOUDY			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 0810 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
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: ok

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

BOLTS	(Y)	N
CAP & LOCK	(Y)	N
GROUT	(Y)	N
WELL BOX.	(Y)	N
SECURED	(Y)	N

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No:	MW2
Project No:	UP04-334.1.6	Date:	01/29/09
		Personnel:	TSINDER

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			
	20.00	−	7.65	=	12.35	X	0.04	0.16	0.64	1.44	1.97	=	5.92

PURGING DATA

Purge Method: WATERRA / BAILER / SUB

Purge Rate: GPM

Time	0829	0832	0835			
Volume Purge (gal)	2.00	4.00	6.00			
Temperature (C)	18.6	19.1	19.5			
pH	7.03	6.95	7.01			
Spec.Cond.(umhos)	847	853	866			
Turbidity/Color	SLTY CLEAR	SLTY CLEAR	SLTY CLEAR			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 0840

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
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

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

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

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW-3	Date: 01/29/09
Project No:	UP04-334.1.6	Personnel: TS/AD	

GAUGING DATA

Water Level Measuring Method: WLM / IP Measuring Point Description: TOC

	Total Depth (feet)		Depth to Water (feet)		Water Column (feet)		Multiplier for Casing Diameter				Casing Volume (gal)		Total Purge Volume (gal)
WELL PURGE VOLUME CALCULATION	19.90	−	5.86	=	14.04	X	1	(2)	4	6	2.24	=	6.73
							0.04	0.16	0.64	1.44			

PURGING DATA

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

Time	0900	0903	0907			
Volume Purge (gal)	2.50	5.00	7.50			
Temperature (C)	18.6	18.7	18.9			
pH	7.17	6.93	7.00			
Spec.Cond.(umhos)	1061	1057	1011			
Turbidity/Color	SLTY CLEAR	SLTY CLEAR	SLTY CLEAR			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 0915 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
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

Condition of Well Box and Casing at Time of Sampling: OK

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

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

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW4	Date: 01/29/09
Project No:	UP04-334.1.6	Personnel:	TBINDER

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			
	14.00	−	5.80	=	8.20	X	0.04	0.16	0.64	1.44	1.31	=	3.93

PURGING DATA

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

Time	0950	0952	0955			
Volume Purge (gal)	1.50	3.00	4.50			
Temperature (C)	16.2	16.1	16.			
pH	7.81	7.64	7.52			
Spec.Cond.(umhos)	765	750	741			
Turbidity/Color	SLHT BROWN	SLHT BROWN	SLHT BROWN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1000 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	2	AMBERS	HCL	1L		TPH-D

Total Purge Volume: 4.5 (gallons) Disposal: SYSTEM

Weather Conditions: ok

Condition of Well Box and Casing at Time of Sampling: ok

Well Head Conditions Requiring Correction: NONE

Problems Encountered During Purging and Sampling: NONE

Comments:

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

Appendix C

Laboratory Analytical Reports and Chain-of-Custody Documentation

Calscience Environmental Laboratories, Inc.

February 09, 2009

Erik Appel
ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Subject: **Calscience Work Order No.: 09-01-2683**
Client Reference: ExxonMobil 04334

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 1/31/2009 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Systems Manual, applicable standard operating procedures, and other related documentation. The original report of subcontracted analysis, if any, is provided herein, and follows the standard Calscience data package. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

Note that the Chain-of-Custody Record and Sample Receipt Form are integral parts of this report.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

Cecile de Guia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	01/31/09
2285 Morello Avenue	Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

Project: ExxonMobil 04334

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	**09-01-2683-1-G**	**01/29/09 08:10**	**Aqueous**	**GC 43**	**02/02/09**	**02/04/09 18:55**	**090202B16**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
Decachlorobiphenyl	85	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**09-01-2683-2-G**	**01/29/09 08:40**	**Aqueous**	**GC 43**	**02/02/09**	**02/06/09 15:14**	**090202B16**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
Decachlorobiphenyl	95	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**09-01-2683-3-G**	**01/29/09 09:15**	**Aqueous**	**GC 43**	**02/02/09**	**02/06/09 15:34**	**090202B16**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
Decachlorobiphenyl	93	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**09-01-2683-4-G**	**01/29/09 10:00**	**Aqueous**	**GC 43**	**02/02/09**	**02/04/09 21:15**	**090202B16**

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.
-Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
Decachlorobiphenyl	97	68-140				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	01/31/09
2285 Morello Avenue	Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)

Project: ExxonMobil 04334

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-330-938**	**N/A**	**Aqueous**	**GC 43**	**02/02/09**	**02/04/09 14:15**	**090202B16**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Diesel	ND	50	47	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	95	68-140	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	01/31/09
2285 Morello Avenue		Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	**09-01-2683-1-F**	**01/29/09 08:10**	**Aqueous**	**GC 1**	**02/04/09**	**02/05/09 04:20**	**090204B02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	86	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**09-01-2683-2-F**	**01/29/09 08:40**	**Aqueous**	**GC 1**	**02/04/09**	**02/05/09 02:12**	**090204B02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	85	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**09-01-2683-3-F**	**01/29/09 09:15**	**Aqueous**	**GC 1**	**02/04/09**	**02/05/09 04:51**	**090204B02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	92	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	90	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**09-01-2683-4-F**	**01/29/09 10:00**	**Aqueous**	**GC 1**	**02/04/09**	**02/05/09 05:23**	**090204B02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	86	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	01/31/09
2285 Morello Avenue	Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8015B (M)

Project: ExxonMobil 04334

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-436-2,790**	**N/A**	**Aqueous**	**GC 1**	**02/04/09**	**02/05/09 00:37**	**090204B02**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	ND	50	48	1		ug/L
Surrogates:	**REC (%)**	**Control Limits**			**Qual**	
1,4-Bromofluorobenzene	87	38-134				

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	01/31/09
2285 Morello Avenue		Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8021B
		Units:	ug/L
Project: ExxonMobil 04334			Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	**09-01-2683-1-D**	**01/29/09 08:10**	**Aqueous**	**GC 8**	**02/02/09**	**02/02/09 14:40**	**090202B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	0.21	0.50	0.17	1	J,Z	Xylenes (total)	0.30	1.0	0.26	1	J,Z
Surrogates:	REC (%)	Control Limits			Qual						
1,4-Bromofluorobenzene	97	70-130									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**09-01-2683-2-D**	**01/29/09 08:40**	**Aqueous**	**GC 8**	**02/02/09**	**02/02/09 15:14**	**090202B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	ND	0.50	0.17	1		Xylenes (total)	ND	1.0	0.26	1	
Surrogates:	REC (%)	Control Limits			Qual						
1,4-Bromofluorobenzene	96	70-130									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**09-01-2683-3-D**	**01/29/09 09:15**	**Aqueous**	**GC 8**	**02/02/09**	**02/02/09 15:48**	**090202B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	13	0.50	0.14	1		Ethylbenzene	13	0.50	0.17	1	
Toluene	0.33	0.50	0.17	1	J	Xylenes (total)	0.52	1.0	0.26	1	J,Z
Surrogates:	REC (%)	Control Limits			Qual						
1,4-Bromofluorobenzene	98	70-130									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**09-01-2683-4-D**	**01/29/09 10:00**	**Aqueous**	**GC 8**	**02/02/09**	**02/02/09 16:22**	**090202B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	0.19	0.50	0.17	1	J,Z	Xylenes (total)	ND	1.0	0.26	1	
Surrogates:	REC (%)	Control Limits			Qual						
1,4-Bromofluorobenzene	95	70-130									

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	01/31/09
2285 Morello Avenue	Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8021B
	Units:	ug/L
Project: ExxonMobil 04334		Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-667-327**	**N/A**	**Aqueous**	**GC 8**	**02/02/09**	**02/02/09 11:15**	**090202B01**

Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
Benzene	ND	0.50	0.14	1		Ethylbenzene	ND	0.50	0.17	1	
Toluene	ND	0.50	0.17	1		Xylenes (total)	ND	1.0	0.26	1	

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	113	70-130	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	01/31/09
2285 Morello Avenue	Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project: ExxonMobil 04334

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	**09-01-2683-1-A**	**01/29/09 08:10**	**Aqueous**	**GC/MS Z**	**02/07/09**	**02/07/09 19:01**	**090207L01**

Parameter	Result	RL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	1.6	0.50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	114	73-157	
Dibromofluoromethane	105	82-142	
Toluene-d8	100	82-112	
1,4-Bromofluorobenzene	95	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**09-01-2683-2-A**	**01/29/09 08:40**	**Aqueous**	**GC/MS Z**	**02/07/09**	**02/07/09 19:31**	**090207L01**

Parameter	Result	RL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	119	73-157	
Dibromofluoromethane	107	82-142	
Toluene-d8	99	82-112	
1,4-Bromofluorobenzene	92	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**09-01-2683-3-A**	**01/29/09 09:15**	**Aqueous**	**GC/MS Z**	**02/07/09**	**02/07/09 20:02**	**090207L01**

Parameter	Result	RL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	126	73-157	
Dibromofluoromethane	115	82-142	
Toluene-d8	102	82-112	
1,4-Bromofluorobenzene	95	75-105	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.	Date Received:	01/31/09
2285 Morello Avenue	Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project: ExxonMobil 04334

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**09-01-2683-4-A**	**01/29/09 10:00**	**Aqueous**	**GC/MS Z**	**02/07/09**	**02/07/09 20:32**	**090207L01**

Parameter	Result	RL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	125	73-157	
Dibromofluoromethane	112	82-142	
Toluene-d8	101	82-112	
1,4-Bromofluorobenzene	91	75-105	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-803**	**N/A**	**Aqueous**	**GC/MS Z**	**02/07/09**	**02/07/09 11:50**	**090207L01**

Parameter	Result	RL	DF	Qual	Units
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	120	73-157	
Dibromofluoromethane	115	82-142	
Toluene-d8	99	82-112	
1,4-Bromofluorobenzene	92	75-105	

RL - Reporting Limit , DF - Dilution Factor , Qual - Qualifiers

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.		Date Received:	01/31/09
2285 Morello Avenue		Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project ExxonMobil 04334

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW2	**Aqueous**	**GC 1**	**02/04/09**	**02/05/09**	**090204S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	91	94	68-122	3	0-18	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.	Date Received:	01/31/09
2285 Morello Avenue	Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8021B

Project ExxonMobil 04334

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW1	**Aqueous**	**GC 8**	**02/02/09**	**02/02/09**	**090202S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	57-129	1	0-23	
Toluene	95	92	50-134	3	0-26	
Ethylbenzene	102	100	58-130	2	0-26	
p/m-Xylene	105	104	58-130	1	0-28	
o-Xylene	99	98	57-123	1	0-26	
Methyl-t-Butyl Ether (MTBE)	100	106	44-134	7	0-27	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ETIC Engineering, Inc.
2285 Morello Avenue
Pleasant Hill, CA 94523-1850

Date Received: 01/31/09
Work Order No: 09-01-2683
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 04334

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-01-2545-2	**Aqueous**	**GC/MS Z**	**02/07/09**	**02/07/09**	**090207S01**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	104	102	86-122	2	0-8	
Carbon Tetrachloride	118	118	78-138	0	0-9	
Chlorobenzene	100	100	90-120	0	0-9	
1,2-Dibromoethane	100	98	70-130	3	0-30	
1,2-Dichlorobenzene	100	97	89-119	3	0-10	
1,1-Dichloroethene	106	107	52-142	1	0-23	
Ethylbenzene	101	100	70-130	1	0-30	
Toluene	106	102	85-127	3	0-12	
Trichloroethene	101	99	78-126	2	0-10	
Vinyl Chloride	117	120	56-140	2	0-21	
Methyl-t-Butyl Ether (MTBE)	105	100	64-136	5	0-28	
Tert-Butyl Alcohol (TBA)	111	105	27-183	6	0-60	
Diisopropyl Ether (DIPE)	102	101	78-126	1	0-16	
Ethyl-t-Butyl Ether (ETBE)	93	92	67-133	1	0-21	
Tert-Amyl-Methyl Ether (TAME)	95	89	63-141	6	0-21	
Ethanol	107	95	11-167	12	0-64	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ETIC Engineering, Inc.		Date Received:	N/A
2285 Morello Avenue		Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-938	Aqueous	GC 43	02/02/09	02/04/09	090202B16

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	111	105	75-117	5	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.		Date Received:	N/A
2285 Morello Avenue		Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-2,790	Aqueous	GC 1	02/04/09	02/05/09	090204B02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	97	92	78-120	6	0-10	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ETIC Engineering, Inc.		Date Received:	N/A
2285 Morello Avenue		Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8021B

Project: ExxonMobil 04334

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-667-327	Aqueous	GC 8	02/02/09	02/02/09	090202B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	100	102	70-118	2	0-9	
Toluene	93	93	66-114	0	0-9	
Ethylbenzene	102	101	72-114	0	0-9	
p/m-Xylene	105	105	74-116	1	0-9	
o-Xylene	99	99	72-114	1	0-9	
Methyl-t-Butyl Ether (MTBE)	105	109	41-137	4	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH ISO/IEC 17025 nelac

ETIC Engineering, Inc.		Date Received:	N/A
2285 Morello Avenue		Work Order No:	09-01-2683
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: ExxonMobil 04334

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-803	Aqueous	GC/MS Z	02/07/09	02/07/09	090207L01

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	98	87-117	82-122	1	0-7	
Carbon Tetrachloride	111	114	78-132	69-141	3	0-8	
Chlorobenzene	99	98	88-118	83-123	1	0-8	
1,2-Dibromoethane	100	99	80-120	73-127	1	0-20	
1,2-Dichlorobenzene	98	98	88-118	83-123	0	0-8	
1,1-Dichloroethene	96	100	71-131	61-141	3	0-14	
Ethylbenzene	99	97	80-120	73-127	2	0-20	
Toluene	100	100	85-127	78-134	0	0-7	
Trichloroethene	99	103	85-121	79-127	4	0-11	
Vinyl Chloride	105	107	64-136	52-148	1	0-10	
Methyl-t-Butyl Ether (MTBE)	97	96	67-133	56-144	1	0-16	
Tert-Butyl Alcohol (TBA)	96	94	34-154	14-174	2	0-19	
Diisopropyl Ether (DIPE)	93	92	80-122	73-129	0	0-8	
Ethyl-t-Butyl Ether (ETBE)	88	92	73-127	64-136	5	0-11	
Tert-Amyl-Methyl Ether (TAME)	93	92	69-135	58-146	1	0-12	
Ethanol	90	93	34-124	19-139	3	0-44	

Total number of LCS compounds : 16
Total number of ME compounds : 0
Total number of ME compounds allowed : 1
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 09-01-2683

Qualifier	Definition
*	See applicable analysis comment.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
3	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS and/or LCSD was in control and, therefore, the sample data was reported without further clarification.
4	The MS/MSD RPD was out of control due to matrix interference. The LCS/LCSD RPD was in control and, therefore, the sample data was reported without further clarification.
5	The PDS/PDSD associated with this batch of samples was out of control due to a matrix interference effect. The associated batch LCS/LCSD was in control and, hence, the associated sample data was reported with no further corrective action required.
A	Result is the average of all dilutions, as defined by the method.
B	Analyte was present in the associated method blank.
C	Analyte presence was not confirmed on primary column.
E	Concentration exceeds the calibration range.
I	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ND	Parameter not detected at the indicated reporting limit.
Q	Spike recovery and RPD control limits do not apply resulting from the parameter concentration in the sample exceeding the spike concentration by a factor of four or greater.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.

Calscience Environmental Laboratories, Inc.
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1432
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE:

PAGE: 1 OF 1

LABORATORY CLIENT: ExxonMobil c/o ETIC Engineering
ADDRESS: 2285 Morello Avenue
CITY: Pleasant Hill, CA 94523
TEL: 925-602-4710 x21 | FAX: 925-602-4720 | E-MAIL: see instructions

TURNAROUND TIME: ☐ SAME DAY ☐ 24 HR ☐ 48HR ☐ 72 HR X 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS:
edf file required, Global ID #T0600101278
email report to eappel@eticeng.com & eticlabreports@eticeng.com
*** Use Silica Gel Cleanup for TPH-d analysis**

CLIENT PROJECT NAME / NUMBER: 04334, 2492 Castro Valley Blvd., Castro Valley, CA
P.O. NO.: 4510815837
PROJECT CONTACT: Erik Appel, ETIC Engineering
Project Number: TM04334.1.6
QUOTE NO.:
SAMPLER(S): (SIGNATURE)
LAB USE ONLY: 01-2683

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING DATE	SAMPLING TIME	Matrix	#Cont	TPH-g by EPA Method 8015B	BTEX by EPA Method 8021B (M)	TPH-d by EPA Method 8015B *	MTBE by EPA Method 8260B
1	MW1		01/29/09	0810	Water	8	X	X	X	X
2	MW2			0840	Water	8	X	X	X	X
3	MW3			0915	Water	8	X	X	X	X
4	MW4			1000	Water	8	X	X	X	X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
	Tan O'Malley CEC	1/30/09	1648
Relinquished by: (Signature) 1-30-09 1730	Received by: (Signature)	Date: 1/31/09	Time: 0945
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

TK#511193102

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09- 01-2628 3

SAMPLE RECEIPT FORM

Cooler 1 **of** 1

CLIENT: ETC **DATE:** 1/31/09

TEMPERATURE: (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 3.4 °C - 0.2 °C (CF) = 3.2 °C ☐ **Blank** ☑ **Sample**

☐ Sample(s) outside temperature criteria (PM/APM contacted by:_____).

☐ Sample(s) outside temperature criteria but received on ice/chilled on same day of sampling.

☐ **Received at ambient temperature, placed on ice for transport by Courier.**

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only **Initial:** WB

CUSTODY SEALS INTACT:

☐ Cooler ☐_____ ☐ No (Not Intact) ☑ Not Present ☐ N/A **Initial:** WB

☐ Sample ☐_____ ☐ No (Not Intact) ☑ Not Present **Initial:** SO

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	☑	☐	☐
COC document(s) received complete.....	☑	☐	☐
Sampler's name indicated on COC.....	☑	☐	☐
Sample container label(s) consistent with COC.....	☑	☐	☐
Sample container(s) intact and good condition.....	☑	☐	☐
Correct containers and volume for analyses requested.....	☑	☐	☐
Analyses received within holding time.....	☑	☐	☐
Proper preservation noted on COC or sample container.....	☑	☐	☐
Volatile analysis container(s) free of headspace.....	☑	☐	☐
Tedlar bag(s) free of condensation.....	☐	☐	☑

CONTAINER TYPE:

Solid: ☐4ozCGJ ☐8ozCGJ ☐16ozCGJ ☐Sleeve ☐EnCores® ☐TerraCores® ☐_____

Water: ☐VOA ☑VOAh ☐VOAna_2 ☐125AGB ☐125AGBh ☐125AGBpo_4 ☑1AGB ☐1AGBna_2 ☐1AGBs ☐500AGB ☐500AGBs ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PBznna ☐100PBsterile ☐100PBna_2 ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® ☐_____

Checked/Labeled by: SO

Container: C:Clear A:Amber P:Poly/Plastic G:Glass J:Jar B:Bottle

Reviewed by: WSC

Preservative: h:HCL n:HNO_3 na_2:$Na_2S_2O_3$ na:NaOH po_4:H_3PO_4 s:H_2SO_4 znna:$ZnAc_2$+NaOH

Scanned by: SO