ExxonMobil Environmental Services Company
4096 Piedmont Avenue #194
Oakland, California 94611
510 547 8196 Telephone
510 547 8706 Facsimile

Jennifer C. Sedlachek
Project Manager

ExxonMobil

November 5, 2009

Ms. Barbara Jakub
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
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, Fourth Quarter 2009* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the October 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
Fourth 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

November 5, 2009
Date

November 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, Suite 250 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 21 July 2009, the date of the previous monitoring event, to 5 October 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:	5 (3 onsite, 2 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date:	5 October 2009
Wells gauged and sampled:	MW1-MW5
Wells gauged only:	None
Groundwater flow direction:	North-northeast
Groundwater gradient:	0.027
Well screens submerged:	MW5
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 (M)
- Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B
- Methyl tertiary butyl ether by EPA Method 8260B
- Ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, diisopropyl ether, and ethanol by EPA Method 8260B

ADDITIONAL ACTIVITIES PERFORMED

None.

WORK PROPOSED FOR NEXT QUARTER

The Alameda County Health Care Services Agency sent a letter dated 24 July 2009 recommending reducing groundwater monitoring from quarterly to semi-annually. Semi-annual groundwater monitoring will be conducted in the second and fourth quarters per the attached groundwater monitoring plan.

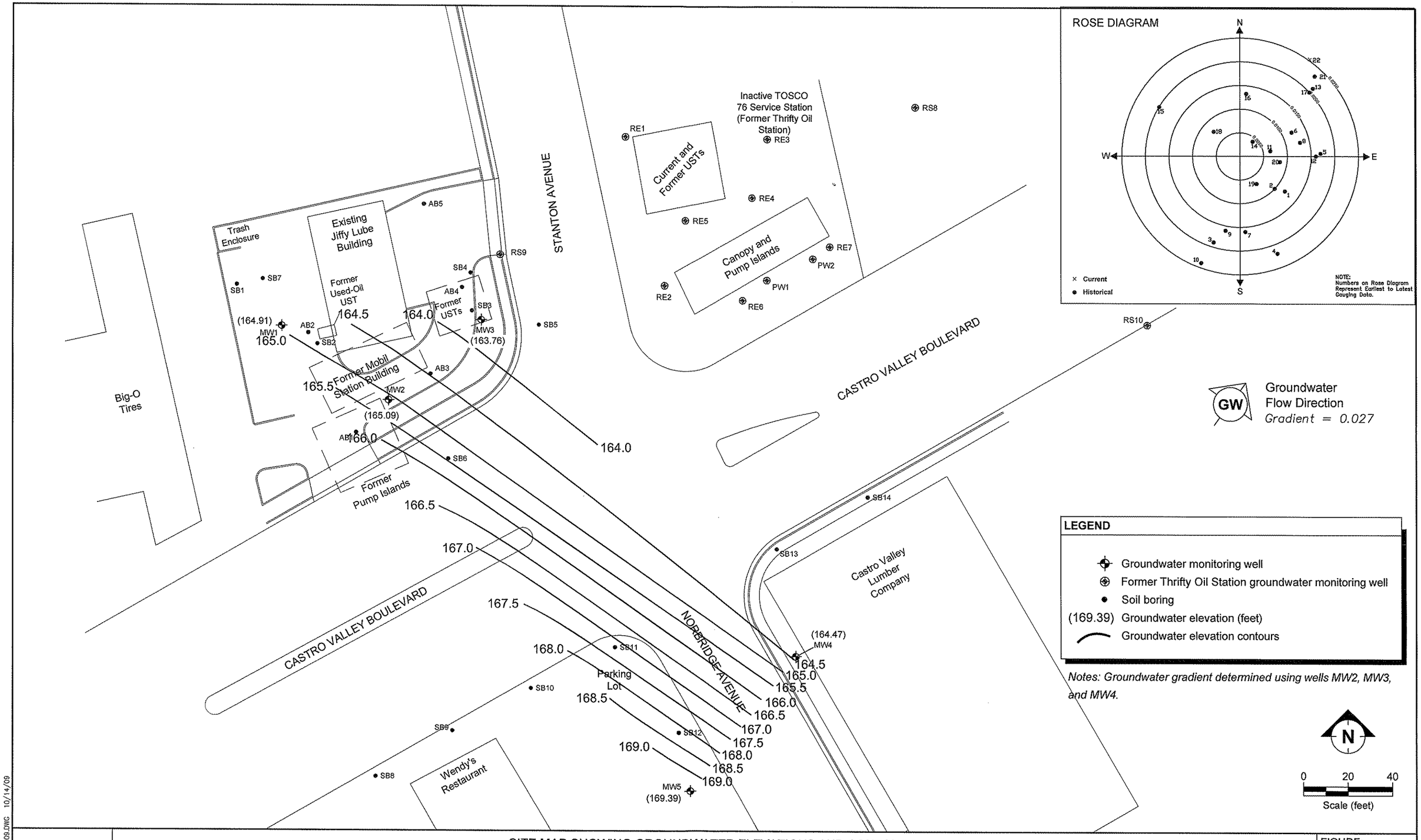
Attachments:

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

Table 1: Well Construction Details
Table 2: Groundwater Monitoring Data
Table 3: Groundwater Monitoring Plan

Appendix A: Field Protocols
Appendix B: Field Documents
Appendix C: Laboratory Analytical Reports and Chain-of-Custody Documentation

Figures



FILENAME: 402009.DWG 10/14/09

ETIC ENGINEERING

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

FIGURE:
1

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
TPH-g	<50
TPH-d	<50
MTBE (8260)	1.1

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
TPH-g	<50
TPH-d	<50
MTBE (8260)	<0.50
1,2-DCA	0.084

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
TPH-g	<50
TPH-d	<50
MTBE (8260)	0.14

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
TPH-g	<50
TPH-d	<50
MTBE (8260)	0.18

Benzene	<0.50
Toluene	<0.50
Ethylbenzene	<0.50
Xylenes	<1.0
TPH-g	<50
TPH-d	<50
MTBE (8260)	8.2

Trash Enclosure
Existing Jiffy Lube Building
Former Used-Oil UST
Former USTs
Former Mobil Station Building
Former Pump Islands
Inactive TOSCO 76 Service Station (Former Thrifty Oil Station)
Current and Former USTs
Canopy and Pump Islands
Big-O Tires
Parking Lot
Wendy's Restaurant
Castro Valley Lumber Company
STANTON AVENUE
CASTRO VALLEY BOULEVARD
NORBRIDGE AVENUE

AB1, AB2, AB3, AB4, AB5
SB1, SB2, SB3, SB4, SB5, SB6, SB7, SB8, SB9, SB10, SB11, SB12, SB13, SB14
MW1, MW2, MW3, MW4, MW5
RE1, RE2, RE3, RE4, RE5, RE6, RE7
RS8, RS9, RS10
PW1, PW2

LEGEND

- Groundwater monitoring well
- Former Thrifty Oil Station groundwater monitoring well
- Soil boring
- TPH-g Total Petroleum Hydrocarbons as gasoline
- TPH-d Total Petroleum Hydrocarbons as diesel
- MTBE Methyl tertiary butyl ether
- 1,2-DCA 1,2-Dichloroethane

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

N

0 20 40
Scale (feet)

ETIC ENGINEERING

SITE MAP SHOWING GROUNDWATER ANALYTICAL RESULTS
FORMER MOBIL STATION 04334
2492 CASTRO VALLEY BOULEVARD, CASTRO VALLEY, CALIFORNIA
5 OCTOBER 2009

FIGURE: **2**

FILENAME: 402009.DWG 10/1409

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
MW5	b	01/30/09	173.80	PVC	15	15	8.25	2	5 - 15	0.010	4.0 - 15	#2/12 Sand

Notes:

a Well surveyed on 12 July 2004 by Morrow Surveying.
b Well surveyed on 10 February 2009 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	Other Oxygenates and Additives
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]	--
MW1		04/15/09	173.23	7.55	165.68	<0.50	<0.50	<0.50	<1.0	<50	<50	1.6 [b]	19 [g], 22 [h,e]
MW1		07/21/09	173.23	8.14	165.09	<0.50	<0.50	<0.50	<1.0	<50	<50	1.2 [b]	ND
MW1		**10/05/09**	**173.23**	**8.32**	**164.91**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**1.1 [b]**	**ND**
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]	--

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	Other Oxygenates and Additives
MW2		05/03/06	173.63	6.53	167.10	<1.00	<1.00	<1.00	<3.00	<50.0	<50	<0.50[b]	--
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]	--
MW2		04/15/09	173.63	7.51	166.12	<0.50	<0.50	<0.50	<1.0	<50	<50	0.50[b,e]	6.5[g,e]
MW2		07/21/09	173.63	8.27	165.36	<0.50	<0.50	<0.50	<1.0	<50	<50	0.12[b,e]	ND
MW2		**10/05/09**	**173.63**	**8.54**	**165.09**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**0.14[b,e]**	**ND**
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]	--

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	Other Oxygenates and Additives
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]	--
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]	--
MW3		04/15/09	171.91	6.14	165.77	2.2	<0.50	3.2	<1.0	51	<50	<0.50[b]	3.7[g,e]
MW3		07/21/09	171.91	7.74	164.17	0.24[e]	<0.50	<0.50	<1.0	<50	<50	<0.50[b]	0.11[j,e]
MW3		**10/05/09**	**171.91**	**8.15**	**163.76**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**<0.50[b]**	**0.084[i,e]**
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]	--
MW4		04/15/09	170.48	5.90	164.58	<0.50	<0.50	<0.50	<1.0	<50	<50	0.15[p,e]	ND

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	Other Oxygenates and Additives
MW4	07/21/09	170.48	6.00	164.48	<0.50	<0.50	<0.50	<1.0	<50	<50	0.16[b,e]	ND
MW4	**10/05/09**	**170.48**	**6.01**	**164.47**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**0.18[b,e]**	**ND**
MW5 i	03/04/09	173.80	4.70	169.10	<0.50	<0.50	<0.50	<1.0	150	--	10 [b]	ND
MW5	04/15/09	173.80	5.17	168.63	<0.50	<0.50	<0.50	<1.0	<50	<50	9.3[b]	24[h,e]
MW5	07/21/09	173.80	5.05	168.75	<0.50	<0.50	<0.50	<1.0	<50	<50	7.0[b]	ND
MW5	**10/05/09**	**173.80**	**4.41**	**169.39**	**<0.50**	**<0.50**	**<0.50**	**<1.0**	**<50**	**<50**	**8.2[b]**	**ND**

Notes: Depth-to-water-level measurements in feet from top-of-casing.
Other Oxygenates and Additives include ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, diisopropyl ether, and ethanol which are individually identified only if detected above the laboratory reporting limit. Analyzed by EPA Method 8260B.

a Top-of-casing elevation surveyed by Morrow Surveying on 12 July 2004.
b Analyzed by EPA Method 8260 or 8260B.
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.
g Tertiary butyl alcohol.
h Ethanol.
i Top-of-casing elevation surveyed by Morrow Surveying on 10 February 2009.
j 1,2-Dichloroethane.

MTBE Methyl tertiary butyl ether.
TPH-d Total Petroleum Hydrocarbons as diesel.
TPH-g Total Petroleum Hydrocarbons as gasoline.
ND Not detected at or above laboratory reporting limits.

µg/L Micrograms per liter.
-- Not sampled or not analyzed.

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	SA	SA	SA
MW2	SA	SA	SA
MW3	SA	SA	SA
MW4	SA	SA	SA
MW5	SA	SA	SA

Notes:

BTEX	Benzene, toluene, ethylbenzene, and xylenes.
MTBE	Methyl tertiary butyl ether.
SA	Semi-annually (During the second and fourth quarters of each year).
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: 10-05-09

Project Number: **UP04334.1.6**

Station Number: **04334**

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

Samplers: TBINDER

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	8.32					19.89	**2"**
MW2	8.59					20.17	**2"**
MW3	8.15					19.89	**2"**
MW4	6.01					14.16	**2"**
MW5	4.41					15.10	**2"**

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW1	Date: 10-05-09
Project No:	UP04-334.1.6	Personnel:	T 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)
	19.89	-	8.32	=	11.57	X	1	(2)	4	6	1.85	=	5.55
							0.04	0.16	0.64	1.44			

PURGING DATA

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

Time	1009	1012	1015			
Volume Purge (gal)	2.	4.	6.			
Temperature (C)	21.6	22.5	22.5			
pH	7.03	7.02	7.10			
Spec.Cond.(umhos)	1091	1114	1110			
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: 1020 Approximate Depth to Water During Sampling: 9. (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	Date: 10-05-09
Project No:	UP04-334.1.6	Personnel:	BRADE

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			
	20.17	-	8.54	=	11.63	X	0.04	0.16	0.64	1.44	1.86	=	5.58

PURGING DATA

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

Time	1035	1038	1041			
Volume Purge (gal)	2.	4.	6.			
Temperature (C)	21.4	21.1	20.9			
pH	7.09	7.01	7.10			
Spec.Cond.(umhos)	1039	946	989			
Turbidity/Color	SLHY CLOUDY	SLHY CLOUDY	SLHY CLOUDY			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1045 Approximate Depth to Water During Sampling: 9. (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: MW3	Date 10-05-09
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)
	19.89	−	8.15	=	11.74	X	1	(2)	4	6	1.87	=	5.63
							0.04	0.16	0.64	1.44			

PURGING DATA

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

Time	1100	1102	1105			
Volume Purge (gal)	2.	4.	6.			
Temperature (°C)	21.6	21.9	21.8			
pH	6.97	7.03	7.08			
Spec.Cond.(umhos)	1161	1164	1167			
Turbidity/Color	SLGY / BROWN	SLGY / CLEAR	SLGY / CLEAR			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1110 — Approximate Depth to Water During Sampling: 9. (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: 6. (gallons) — Disposal: SYSTEM

Weather Conditions: GR

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

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: 10-05-09
Project No:	UP04-334.1.6	Personnel:	TB/DCA

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			
	14.10	-	6.01	=	8.09	X	0.04	0.16	0.64	1.44	1.29	=	3.88

PURGING DATA

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

Time	1222	1235	1248			
Volume Purge (gal)	1.50	3.00	4.50			
Temperature (C)	22.0	21.1	20.9			
pH	7.25	7.20	7.30			
Spec.Cond.(umhos)	1085	1087	1074			
Turbidity/Color	SLTY BROWN	SLTY BROWN	SLTY BROWN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1235 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
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

ETIC ENGINEERING
Engineering, Inc.

GROUNDWATER PURGE AND SAMPLE FORM

Project Name:	Exxon 04334	Well No: MW5	Date: 10-05-09
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			
	15.10	−	4.41	=	10.69	X	0.04	0.16	0.64	1.44	1.71	=	5.13

PURGING DATA

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

Time	1135	1138	1141			
Volume Purge (gal)	2.	4.	6.			
Temperature (C)	24.3	24.5	24.6			
pH	7.22	7.18	7.26			
Spec.Cond.(umhos)	1354	1288	1290			
Turbidity/Color	SLT BROWN	SLT BROWN	SLT BROWN			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA

Time Sampled: 1150 — Approximate Depth to Water During Sampling: 5. (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW5	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW5	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: o/k

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.

October 13, 2009

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

Subject: **Calscience Work Order No.: 09-10-0348**
Client Reference: ExxonMobil 04334 / 2492 Castro Valley, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 10/6/2009 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 L deGuia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.		Date Received:	10/06/09
2285 Morello Avenue		Work Order No:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	09-10-0348-1-G	10/05/09 10:20	Aqueous	GC 27	10/08/09	10/09/09 22:27	091008B15

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	89	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	09-10-0348-2-G	10/05/09 10:45	Aqueous	GC 27	10/08/09	10/09/09 22:45	091008B15

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
MW3	09-10-0348-3-G	10/05/09 11:10	Aqueous	GC 27	10/08/09	10/09/09 23:03	091008B15

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	83	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	09-10-0348-4-G	10/05/09 12:35	Aqueous	GC 27	10/08/09	10/09/09 23:22	091008B15

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	103	68-140				

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH ilac

ETIC Engineering, Inc.		Date Received:	10/06/09
2285 Morello Avenue		Work Order No:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**09-10-0348-5-G**	**10/05/09 11:50**	**Aqueous**	**GC 27**	**10/08/09**	**10/09/09 23:40**	**091008B15**

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	84	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-330-1,274**	**N/A**	**Aqueous**	**GC 27**	**10/08/09**	**10/09/09 21:32**	**091008B15**

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	81	68-140				

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

ETIC Engineering, Inc.		Date Received:	10/06/09
2285 Morello Avenue		Work Order No:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	**09-10-0348-1-E**	**10/05/09 10:20**	**Aqueous**	**GC 25**	**10/08/09**	**10/08/09 23:30**	**091008B02**

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	107	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	**09-10-0348-2-E**	**10/05/09 10:45**	**Aqueous**	**GC 25**	**10/08/09**	**10/09/09 00:03**	**091008B02**

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	108	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	**09-10-0348-3-E**	**10/05/09 11:10**	**Aqueous**	**GC 25**	**10/08/09**	**10/09/09 00:37**	**091008B02**

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	104	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**09-10-0348-4-E**	**10/05/09 12:35**	**Aqueous**	**GC 25**	**10/08/09**	**10/09/09 01:11**	**091008B02**

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	105	38-134				

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ETIC Engineering, Inc.		Date Received:	10/06/09
2285 Morello Avenue		Work Order No:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**09-10-0348-5-E**	**10/05/09 11:50**	**Aqueous**	**GC 25**	**10/08/09**	**10/09/09 01:44**	**091008B02**

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	108	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-12-436-3,879**	**N/A**	**Aqueous**	**GC 25**	**10/08/09**	**10/08/09 20:42**	**091008B02**

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	107	38-134	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 10/06/09
Work Order No: 09-10-0348
Preparation: EPA 5030B
Method: EPA 8021B
Units: ug/L

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	09-10-0348-1-D	10/05/09 10:20	Aqueous	GC 21	10/06/09	10/06/09 16:24	091006B01

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	99	70-130									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	09-10-0348-2-D	10/05/09 10:45	Aqueous	GC 21	10/06/09	10/06/09 16:57	091006B01

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	100	70-130									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	09-10-0348-3-D	10/05/09 11:10	Aqueous	GC 21	10/06/09	10/06/09 18:44	091006B01

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	85	70-130									

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	09-10-0348-4-D	10/05/09 12:35	Aqueous	GC 21	10/06/09	10/06/09 19:17	091006B01

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	97	70-130									

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 10/06/09
Work Order No: 09-10-0348
Preparation: EPA 5030B
Method: EPA 8021B
Units: ug/L

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**09-10-0348-5-D**	**10/05/09 11:50**	**Aqueous**	**GC 21**	**10/06/09**	**10/06/09 19:50**	**091006B01**

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	95	70-130									

Method Blank	099-12-667-600	N/A	Aqueous	GC 21	10/06/09	10/06/09 12:24	091006B01

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	98	70-130									

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH ISO/IEC 17025 nelac

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

Date Received: 10/06/09
Work Order No: 09-10-0348
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	09-10-0348-1-C	10/05/09 10:20	Aqueous	GC/MS BB	10/12/09	10/13/09 04:10	091012L02

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
1,2-Dibromoethane	ND	0.50	0.12	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Methyl-t-Butyl Ether (MTBE)	1.1	0.50	0.067	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Tert-Butyl Alcohol (TBA)	ND	10	2.1	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	111	80-128				Dibromofluoromethane	104	80-127			
Toluene-d8	106	80-120				1,4-Bromofluorobenzene	88	68-120			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	09-10-0348-2-B	10/05/09 10:45	Aqueous	GC/MS BB	10/12/09	10/13/09 04:39	091012L02

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
1,2-Dibromoethane	ND	0.50	0.12	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Methyl-t-Butyl Ether (MTBE)	0.14	0.50	0.067	1	J	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Tert-Butyl Alcohol (TBA)	ND	10	2.1	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	113	80-128				Dibromofluoromethane	103	80-127			
Toluene-d8	107	80-120				1,4-Bromofluorobenzene	85	68-120			

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	09-10-0348-3-B	10/05/09 11:10	Aqueous	GC/MS BB	10/12/09	10/13/09 05:07	091012L02

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
1,2-Dibromoethane	ND	0.50	0.12	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
1,2-Dichloroethane	0.084	0.50	0.080	1	J	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Tert-Butyl Alcohol (TBA)	ND	10	2.1	1		Ethanol	ND	50	15	1	
Surrogates:	REC (%)	Control Limits			Qual	Surrogates:	REC (%)	Control Limits			Qual
1,2-Dichloroethane-d4	112	80-128				Dibromofluoromethane	104	80-127			
Toluene-d8	106	80-120				1,4-Bromofluorobenzene	86	68-120			

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

Calscience Environmental Laboratories, Inc.

Analytical Report

ACCREDITED IN ACCORDANCE WITH nelac

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

Date Received: 10/06/09
Work Order No: 09-10-0348
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW4	**09-10-0348-4-B**	**10/05/09 12:35**	**Aqueous**	**GC/MS BB**	**10/12/09**	**10/13/09 05:36**	**091012L02**

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
1,2-Dibromoethane	ND	0.50	0.12	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Methyl-t-Butyl Ether (MTBE)	0.18	0.50	0.067	1	J	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Tert-Butyl Alcohol (TBA)	ND	10	2.1	1		Ethanol	ND	50	15	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	112	80-128		Dibromofluoromethane	105	80-127	
Toluene-d8	107	80-120		1,4-Bromofluorobenzene	86	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	**09-10-0348-5-C**	**10/05/09 11:50**	**Aqueous**	**GC/MS BB**	**10/12/09**	**10/13/09 06:05**	**091012L02**

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
1,2-Dibromoethane	ND	0.50	0.12	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Methyl-t-Butyl Ether (MTBE)	8.2	0.50	0.067	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Tert-Butyl Alcohol (TBA)	ND	10	2.1	1		Ethanol	ND	50	15	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	112	80-128		Dibromofluoromethane	105	80-127	
Toluene-d8	106	80-120		1,4-Bromofluorobenzene	86	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	**099-10-025-1,255**	**N/A**	**Aqueous**	**GC/MS BB**	**10/12/09**	**10/12/09 23:22**	**091012L02**

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
1,2-Dibromoethane	ND	0.50	0.12	1		Diisopropyl Ether (DIPE)	ND	0.50	0.028	1	
1,2-Dichloroethane	ND	0.50	0.080	1		Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.036	1	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.067	1		Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.030	1	
Tert-Butyl Alcohol (TBA)	ND	10	2.1	1		Ethanol	ND	50	15	1	

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	112	80-128		Dibromofluoromethane	102	80-127	
Toluene-d8	107	80-120		1,4-Bromofluorobenzene	87	68-120	

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:	10/06/09
2285 Morello Avenue		Work Order No:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW1	**Aqueous**	**GC 25**	**10/08/09**	**10/08/09**	**091008S02**

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	81	83	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:	10/06/09
2285 Morello Avenue		Work Order No:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8021B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW2	Aqueous	GC 21	10/06/09	10/06/09	091006S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	98	99	57-129	0	0-23	
Toluene	94	94	50-134	0	0-26	
Ethylbenzene	95	95	58-130	1	0-26	
p/m-Xylene	95	95	58-130	0	0-28	
o-Xylene	91	89	57-123	2	0-26	
Methyl-t-Butyl Ether (MTBE)	111	68	44-134	48	0-27	4

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:	10/06/09
2285 Morello Avenue	Work Order No:	09-10-0348
Pleasant Hill, CA 94523-1850	Preparation:	EPA 5030B
	Method:	EPA 8260B

Project ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
09-10-0702-3	Aqueous	GC/MS BB	10/12/09	10/13/09	091012S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	101	100	76-124	1	0-20	
Carbon Tetrachloride	101	100	74-134	1	0-20	
Chlorobenzene	91	91	80-120	0	0-20	
1,2-Dibromoethane	85	87	80-120	2	0-20	
1,2-Dichlorobenzene	92	91	80-120	1	0-20	
1,1-Dichloroethene	81	79	73-127	2	0-20	
Ethylbenzene	87	88	78-126	0	0-20	
Toluene	99	98	80-120	2	0-20	
Trichloroethene	93	92	77-120	1	0-20	
Vinyl Chloride	107	106	72-126	1	0-20	
Methyl-t-Butyl Ether (MTBE)	93	93	67-121	1	0-49	
Tert-Butyl Alcohol (TBA)	99	103	36-162	4	0-30	
Diisopropyl Ether (DIPE)	93	91	60-138	1	0-45	
Ethyl-t-Butyl Ether (ETBE)	84	83	69-123	1	0-30	
Tert-Amyl-Methyl Ether (TAME)	90	90	65-120	0	0-20	
Ethanol	110	86	30-180	25	0-72	

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:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 3510C
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-1,274	Aqueous	GC 27	10/08/09	10/09/09	091008B15

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	111	111	75-117	0	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:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8015B (M)

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-3,879	Aqueous	GC 25	10/08/09	10/08/09	091008B02

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	94	95	78-120	1	0-10	

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:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8021B

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-667-600	Aqueous	GC 21	10/06/09	10/06/09	091006B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	103	104	70-118	1	0-9	
Toluene	99	100	66-114	1	0-9	
Ethylbenzene	100	100	72-114	0	0-9	
p/m-Xylene	102	102	74-116	0	0-9	
o-Xylene	97	97	72-114	0	0-9	
Methyl-t-Butyl Ether (MTBE)	97	101	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 nelac

ETIC Engineering, Inc.		Date Received:	N/A
2285 Morello Avenue		Work Order No:	09-10-0348
Pleasant Hill, CA 94523-1850		Preparation:	EPA 5030B
		Method:	EPA 8260B

Project: ExxonMobil 04334 / 2492 Castro Valley, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,255	Aqueous	GC/MS BB	10/12/09	10/12/09	091012L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME_CL	RPD	RPD CL	Qualifiers
Benzene	99	98	80-120	73-127	1	0-20	
Carbon Tetrachloride	102	101	74-134	64-144	1	0-20	
Chlorobenzene	92	90	80-120	73-127	3	0-20	
1,2-Dibromoethane	86	86	79-121	72-128	0	0-20	
1,2-Dichlorobenzene	91	91	80-120	73-127	1	0-20	
1,1-Dichloroethene	83	82	78-126	70-134	1	0-28	
Ethylbenzene	89	87	80-120	73-127	2	0-20	
Toluene	99	97	80-120	73-127	2	0-20	
Trichloroethene	93	92	79-127	71-135	1	0-20	
Vinyl Chloride	109	111	72-132	62-142	2	0-20	
Methyl-t-Butyl Ether (MTBE)	94	93	69-123	60-132	1	0-20	
Tert-Butyl Alcohol (TBA)	103	97	63-123	53-133	6	0-20	
Diisopropyl Ether (DIPE)	93	89	59-137	46-150	4	0-37	
Ethyl-t-Butyl Ether (ETBE)	85	82	69-123	60-132	3	0-20	
Tert-Amyl-Methyl Ether (TAME)	90	89	70-120	62-128	2	0-20	
Ethanol	91	89	28-160	6-182	2	0-57	

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: 09-10-0348

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.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

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

CLIENT PROJECT NAME / NUMBER: 04334, 2492 Castro Valley Blvd., Castro Valley, CA
PROJECT CONTACT: Erik Appel, ETIC Engineering | Project Number: TM04334.1.6
SAMPLER(S): (SIGNATURE)
P.O. NO.: 4510815837
QUOTE NO.:
LAB USE ONLY: 10-0348

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**

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	MTBE, TBA, DIPE, ETBE, TAME, EDB, 1,2-DCA, and ethanol by EPA Method 8260B
1	MW1		10-05-09	1020	Water	8	X	X	X	X	X
2	MW2			1045	Water	8	X	X	X	X	X
3	MW3			1110	Water	8	X	X	X	X	X
4	MW4			1235	Water	8	X	X	X	X	X
5	MW5			1150	Water	8	X	X	X	X	X

Relinquished by: (Signature)	DATE 10-05-09	TIME 1415	Received by: (Signature) Tom O'Malley CET
Relinquished by: (Signature) Tom O'Malley TO 650	10/5/09	1730	Received by: (Signature)
Relinquished by: (Signature) 5127765733			Received by: (Signature)

Date: 10/5/09 Time: 1440
Date: Time:
Date: 10/6/09 Time: 1030

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 09-10-0348

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ETEC

DATE: 10/6/09

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

Temperature 4.4 °C - 0.2 °C (CF) = 4.2 °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:** JH

CUSTODY SEALS INTACT:

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

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

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples	☑	☐	☐
COC document(s) received complete	☑	☐	☐
☐ Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
☐ COC not relinquished. ☐ No date relinquished. ☐ No time relinquished.			
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	☑	☐	☐
☐ Unpreserved vials received for Volatiles analysis			
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 (6) ☐VOA**na₂** ☐125AGB ☐125AGB**h** ☐125AGB**p** ☐1AGB ☐1AGB**na₂** ☐1AGB**s** ☐500AGB ☑500AGJ (3) ☐500AGJ**s** ☐250AGB ☐250CGB ☐250CGB**s** ☐1PB ☐500PB ☐500PB**na** ☐250PB ☐250PB**n** ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☐_____ ☐_____ ☐_____

Air: ☐Tedlar® ☐Summa® **Other:** ☐_____ **Trip Blank Lot#:**_____ **Checked by:** WSC

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelop **Reviewed by:** RM

Preservative: h: HCL n: HNO3 na_2: $Na_2S_2O_3$ Na: NaOH p: H_3PO_4 s: H_2SO_4 znna: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** WSC