

ExxonMobil Environmental Services Company
4096 Piedmont Avenue #194
Oakland, California 94611
510 547 8196 Telephone
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Jennifer C. Sedlachek
Project Manager

RECEIVED

9:51 am, Sep 01, 2010

Alameda County
Environmental Health

ExxonMobil

August 25, 2010

Mr. Jerry T. Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Subject: Fuel Leak Investigation Site No. RO0002635
Former Exxon RAS #74121, 10605 Foothill Boulevard, Oakland, California

Dear Mr. Wickham:

Attached for your review and comment is a copy of the *Report of Groundwater Monitoring, Third Quarter 2010* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the August 2010 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,

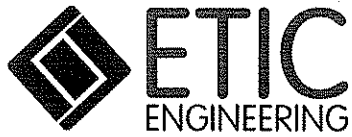


Jennifer C. Sedlachek
Project Manager

Attachment: ETIC Groundwater Monitoring Report

c: w/ attachment:
Mr. Ken Phares - MacArthur Boulevard Associates, Oakland, California
Mr. Peter McIntyre - AEI Consultants

c: w/o attachment:
Mr. Bryan Campbell - ETIC Engineering, Inc.



**Report of Groundwater Monitoring
Third Quarter 2010**

**Former Exxon Retail Site 74121
10605 Foothill Boulevard
Oakland, California**

Prepared for

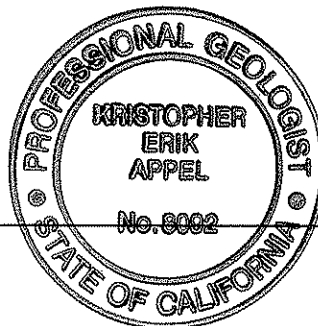
ExxonMobil Oil Corporation

Prepared by

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

A handwritten signature in black ink, appearing to read "K. Erik Appel".

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



A handwritten date in black ink, "August 25, 2010".

Date

August 2010

SITE CONTACTS

Site Name: Former Exxon Retail Site 74121

Site Address: 10605 Foothill Boulevard
Oakland, 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: Jerry T. Wickham
Alameda County Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway
Alameda, California 94502-6577
(510) 567-6765

INTRODUCTION

ETIC Engineering, Inc. (ETIC) has prepared this quarterly groundwater monitoring report for ExxonMobil Environmental Services Company on behalf of ExxonMobil Oil Corporation for former Exxon Retail Site 74121. This report presents the results for the most recent groundwater monitoring conducted at the site and summarizes recent site activities. This report covers site activities from 16 March 2010, the date of the previous monitoring event, until 2 August 2010, the date of the most recent quarterly 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 Exxon Retail Site 74121
Site address:	10605 Foothill Boulevard, Oakland, California
Current property owner:	MacArthur Boulevard Associates
Current site use:	Landscaped area
Current phase of project:	Groundwater monitoring
Tanks at site:	Underground storage tanks removed in 1981 or 1982
Number of wells:	4 (4 onsite, 0 offsite)

GROUNDWATER MONITORING SUMMARY

Gauging and sampling date:	2 August 2010
Wells gauged and sampled:	MW1, MW2, MW3, MW5
Wells gauged only:	None
Groundwater flow direction:	North
Groundwater gradient:	0.00096
Well screens submerged:	None
Well screens not submerged:	MW1, MW2, MW3, MW5
Liquid-phase hydrocarbons:	Not observed or detected
Laboratory:	Calscience Environmental Laboratories, Inc., Garden Grove, California

Analyses performed:

- Total Petroleum Hydrocarbons as gasoline by EPA Method 8015B (M)
- Total Petroleum Hydrocarbons as diesel by EPA Method 8015B (M)
- Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8021B
- Methyl tertiary butyl ether, ethyl tertiary butyl ether, tertiary amyl methyl ether, tertiary butyl alcohol, diisopropyl ether, 1,2-dibromoethane, and 1,2-dichloroethane by EPA Method 8260B

ADDITIONAL ACTIVITIES PERFORMED

The Alameda County Health Care Services Agency (ACHCSA) sent a letter dated 22 May 2009 approving the proposed remediation excavation for the site. Additionally, the ACHCSA requested that groundwater monitoring and sampling be reduced to semiannual.

Between 16 February and 4 March 2010 the remedial excavation of the former underground storage tank bed was performed. A report describing this event was submitted under separate cover.

A letter dated 22 July 2010 was received from the ACHCSA requesting a summary report that would either request case closure or recommend further action by 25 September 2010. The report will be submitted under separate cover.

WORK PROPOSED FOR NEXT QUARTER

Groundwater will be monitored according to the attached groundwater monitoring plan.

Attachments:

Figure 1: Site Map Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction Details

Table 2: Groundwater Monitoring Data

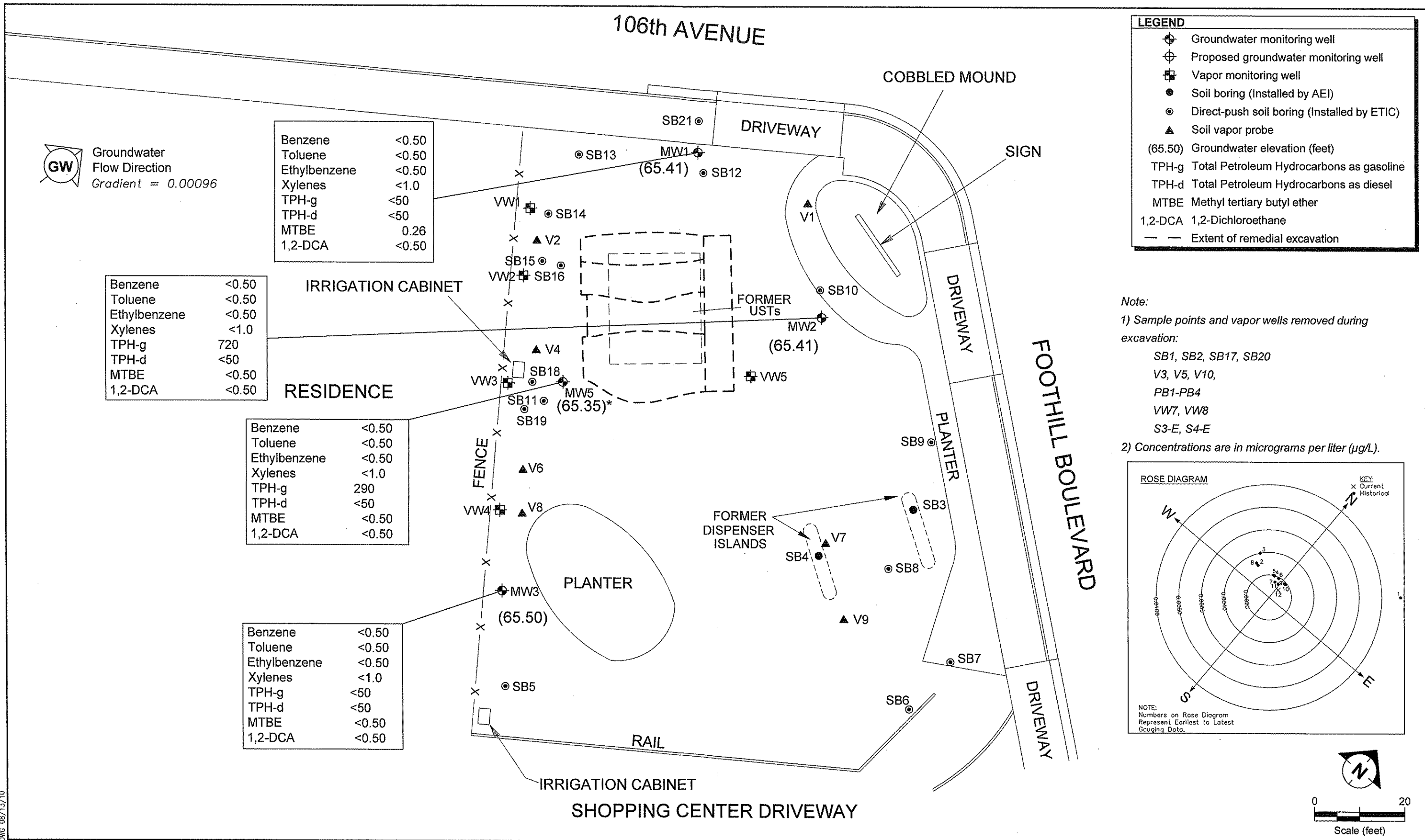
Table 3: Groundwater Monitoring Plan

Appendix A: Field Protocols

Appendix B: Field Documents

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

Figures



FILENAME: 302010.DWG 08/13/10



SITE MAP SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
 FORMER EXXON RS 74121
 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA
 2 AUGUST 2010

FIGURE:
1

Tables

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 74121, 10605 FOOTHILL BOULEVARD, OAKLAND, 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 01/23/07	82.47	PVC	26.5	25	8	2	10 - 25	0.010	8 - 25	#2/12 Sand
MW2	a 01/23/07	84.40	PVC	26.5	25	8	2	10 - 25	0.010	8 - 25	#2/12 Sand
MW3	a 01/24/07	83.25	PVC	26.5	25	8	2	10 - 25	0.010	8 - 25	#2/12 Sand
MW5	a 01/23/07	82.65	PVC	26.5	25	8	2	10 - 25	0.010	8 - 25	#2/12 Sand
VW1	a 01/22/07	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW2	a 01/22/07	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW3	a 01/22/07	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW4	a 01/22/07	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW5	a 01/22/07	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW6	b 03/23/09	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW7	c 03/23/09	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW8	c 03/23/09	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW9	b 03/23/09	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW10	b 03/23/09	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW11	b 03/23/09	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand
VW12	b 03/23/09	--	SS	6	6	6	0.25	5.25 - 5.75	0.0057	5 - 6	#2/12 Sand

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 74121, 10605 FOOTHILL BOULEVARD, OAKLAND, 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
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Notes:

- a Well surveyed on 12 March 2007 by Morrow Surveying.
- b Well surveyed on 4 May 2009 by Morrow Surveying.
- c Well destroyed during remedial excavation.

PVC Polyvinyl chloride.
 SS Stainless steel.
 TOC Top of casing.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RETAIL SITE 74121, 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)												
						Benzene	Toluene	Ethyl- benzene	Xylenes	TPH-g	TPH-d	MTBE	TBA	DIPE	ETBE	1,2-DCA	TAME	EDB
MW1	03/08/07	82.47	15.10	67.37	0.00	<1.00	1.21	<1.00	<3.00	440	119	1.91	<10.0	<0.500	<0.500	<0.500	0.560	<0.500
MW1	06/08/07	82.47	16.47	66.00	0.00	<0.50	<0.50	<0.50	<0.50	127	<47.6	0.880	<10.0 ^{ab}	<0.500	<0.500	<0.500	<0.500	<0.500
MW1	09/06/07	82.47	17.47	65.00	0.00	<0.50	<0.50	<0.50	<0.50	78.0	<47.2	0.590	<10.0 ^{ab}	<0.500	<0.500	<0.500	<0.500	<0.500
MW1	12/03/07	82.47	18.10	64.37	0.00	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	03/19/08	82.47	16.20	66.27	0.00	<0.50	<0.50	<0.50	<0.50	51.3	61 ^c	3.08	<10.0	<0.500	<0.500	<0.500	0.930	<0.500
MW1	06/11/08	82.47	17.24	65.23	0.00	<0.50	<0.50	<0.50	<0.50	<50	<47	0.99	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	09/16/08	82.47	18.37	64.10	0.00	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	12/01/08	82.47	18.85	63.62	0.00	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	03/12/09	82.47	16.92	65.55	0.00	<0.50	<0.50	<0.50	<1.0	68	<50	0.80	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	08/12/09	82.47	18.50	63.97	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	0.45 ^f	<10	<0.50	<0.50	<0.50	0.13 ^f	<0.50
MW1	03/16/10	82.47	16.77	65.70	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	0.72	<10	<0.50	<0.50	<0.50	0.15 ^f	<0.50
MW1	08/02/10	82.47	17.06	65.41	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	0.26^f	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	03/08/07	84.40	16.97	67.43	0.00	1.33	3.52	2.41	<3.00	1,620	550	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500
MW2	06/08/07	84.40	18.34	66.06	0.00	21.8	2.45	0.66	<0.50	2,120	395	<0.500	10.0 ^c	<0.500	<0.500	<0.500	<0.500	<0.500
MW2	09/06/07	84.40	19.33	65.07	0.00	4.66	0.70	<0.50	1.25	470	208	<0.500	<10.0 ^{ac}	<0.500	<0.500	<0.500	<0.500	<0.500
MW2	12/03/07	84.40	19.97	64.43	0.00	22 ^d	<0.50	<0.50	<0.50	560	120 ^e	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	03/19/08	84.40	18.07	66.33	0.00	5.33	<0.50	<0.50	0.82	630	200 ^e	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500
MW2	06/11/08	84.40	19.13	65.27	0.00	<0.50	<0.50	<0.50	<0.50	430	110 ^e	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	09/16/08	84.40	20.25	64.15	0.00	8.1 ^d	<0.50	<0.50	<0.50	230	63 ^c	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	12/01/08	84.40	20.75	63.65	0.00	<0.50	<0.50	<0.50	<0.50	250	58 ^e	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	03/12/09	84.40	18.85	65.55	0.00	<0.50	<0.50	<0.50	0.75 ^f	940	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	08/12/09	84.40	20.43	63.97	0.00	<0.50	<0.50	0.56	<1.0	500	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	03/16/10	84.40	18.68	65.72	0.00	<0.50	1.3	1.3	<1.0	520	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	08/02/10	84.40	18.99	65.41	0.00	<0.50	<0.50	<0.50	<1.0	720^b	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	03/08/07	83.25	15.49	67.76	0.00	<1.00	<1.00	<1.00	<3.00	<100	52.9	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500
MW3	06/08/07	83.25	17.02	66.23	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	<47.6	<0.500	<10.0 ^{ab}	<0.500	<0.500	<0.500	<0.500	<0.500
MW3	09/06/07	83.25	18.07	65.18	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	<47.2	<0.500	<10.0 ^{ab}	<0.500	<0.500	<0.500	<0.500	<0.500
MW3	12/03/07	83.25	18.69	64.56	0.00	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	03/19/08	83.25	16.79	66.46	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	<47	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500
MW3	06/11/08	83.25	17.82	65.43	0.00	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	09/16/08	83.25	18.99	64.26	0.00	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	12/01/08	83.25	19.46	63.79	0.00	<0.50	<0.50	<0.50	<0.50	<50	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	03/12/09	83.25	17.53	65.72	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	08/12/09	83.25	19.11	64.14	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	03/16/10	83.25	17.40	65.85	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	08/02/10	83.25	17.75	65.50	0.00	<0.50	<0.50	<0.50	<1.0	<50	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW5	03/08/07	82.65	14.31	68.34	0.00	<1.00	<1.00	<1.00	<3.00	187	59.2	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500
MW5	06/08/07	82.65	16.64	66.01	0.00	4.38	0.72	<0.50	<0.50	780	90.3	<0.500	<10.0 ^{ab}	<0.500	<0.500	<0.500	<0.500	<0.500
MW5	09/06/07	82.65	17.62	65.03	0.00	<0.50	<0.50	<0.50	<0.50	<50.0	121	<0.500	<10.0 ^{ab}	<0.500	<0.500	<0.500	<0.500	<0.500
MW5	12/03/07	82.65	18.27	64.38	0.00	<0.50	<0.50	<0.50	<0.50	100	65 ^e	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RETAIL SITE 74121, 10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentration (µg/L)												
						Benzene	Toluene	Ethyl-benzene	Xylenes	TPH-g	TPH-d	MTBE	TBA	DIPE	ETBE	1,2-DCA	TAME	EDB
MW5	03/19/08	82.65	16.37	66.28	0.00	0.69	<0.50	<0.50	0.87	237	110 ^e	<0.500	<10.0	<0.500	<0.500	<0.500	<0.500	<0.500
MW5	06/11/08	82.65	17.40	65.25	0.00	<0.50	<0.50	<0.50	0.65	83	77 ^c	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW5	09/16/08	82.65	18.54	64.11	0.00	<0.50	<0.50	<0.50	<0.50	120	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW5	12/01/08	82.65	19.00	63.65	0.00	<0.50	<0.50	<0.50	<0.50	140	<47	<0.50	<20	<0.50	<0.50	<0.50	<0.50	<0.50
MW5	03/12/09	82.65	17.09	65.56	0.00	0.21 ^f	<0.50	<0.50	0.85 ^f	410	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	0.19 ^f
MW5	08/12/09	82.65	18.71	63.94	0.00	0.55 ^g	<0.50	<0.50	<1.0	110	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW5	03/26/10	82.65	16.96	65.69	0.00	<0.50	0.46 ^f	0.42 ^f	<1.0	210	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50
MW5	08/02/10	82.65	17.30	65.35	0.00	<0.50	<0.50	<0.50	<1.0	290 ^h	<50	<0.50	<10	<0.50	<0.50	<0.50	<0.50	<0.50

Notes: MTBE analyzed by EPA Method 8260B unless otherwise indicated.

- a Calibration verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- b Laboratory control sample and/or laboratory control sample duplicate recovery was above the acceptance limits. Analyte not detected, data not impacted.
- c Initial analysis within holding time. Reanalysis for the required dilution or confirmation was past holding time.
- d The relative percent difference between the primary and confirmatory analysis exceeded 40%. Per EPA Method 8000B, the higher value was reported.
- e Does not match typical pattern.
- f Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
- g Analyte presence was not confirmed by second column or GC/MS analysis.
- h The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

- 1,2-DCA 1,2-Dichloroethane.
- DIPE Diisopropyl ether.
- EDB 1,2-Dibromoethane.
- ETBE Ethyl tertiary butyl ether.
- MTBE Methyl tertiary butyl ether.
- TAME Tertiary amyl methyl ether.
- TBA Tertiary butyl alcohol.
- TPH-d Total Petroleum Hydrocarbons as diesel analyzed by EPA Method 8015B.
- TPH-g Total Petroleum Hydrocarbons as gasoline analyzed by EPA Method 8015B.

µg/L Micrograms per liter.

TABLE 3

GROUNDWATER MONITORING PLAN, FORMER EXXON RS 74121,
10605 FOOTHILL BOULEVARD, OAKLAND, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency		
		TPH-g, TPH-d, and BTEX	MTBE	Other Oxygenates and Additives
MW1	SA	SA	SA	SA
MW2	SA	SA	SA	SA
MW3	SA	SA	SA	SA
MW5	SA	SA	SA	SA

Notes: Oxygenates and additives include diisopropyl ether, tertiary butyl alcohol, tertiary amyl methyl ether, ethyl tertiary butyl ether, 1,2-dibromoethane, and 1,2-dichloroethane.

BTEX Benzene, toluene, ethylbenzene, and xylenes.
 MTBE Methyl tertiary butyl ether.
 SA Semiannually (during the first and third quarters).
 TPH-g Total Petroleum Hydrocarbons as gasoline.
 TPH-d Total Petroleum Hydrocarbons as diesel.

Appendix A
Field Protocols

PROTOCOLS FOR QUARTERLY GROUNDWATER MONITORING

GROUNDWATER GAUGING

Wells are opened prior to gauging to allow the groundwater level in the wells to equilibrate with atmospheric pressure. The depth to groundwater and depth to liquid-phase hydrocarbons, if present, are then measured to the nearest 0.01 feet using an electronic water level meter or optical interface probe. The measurements are made from a permanent reference point at the top of the well casing. If less than 1 foot of water is measured in a well, the water is bailed from the well and, if the well does not recover, the well is considered “functionally dry.” Wells with a sheen or measurable liquid-phase hydrocarbons are generally not purged or sampled.

WELL PURGING

After the wells are gauged, each well is purged of approximately 3 well casing volumes of water to provide representative groundwater samples for analysis. Field parameters of pH, temperature, and electrical conductance are measured during purging to ensure that these parameters have stabilized before groundwater in a well is sampled. Groundwater in each well is purged using an inertial pump (WaTerra), an electric submersible pump, or a bailer. After the well is purged, the water level is checked to ensure that the well has recharged to at least 80 percent of its original water level.

GROUNDWATER SAMPLING

After purging, groundwater in each well is sampled using dedicated tubing and an inertial pump (WaTerra) or a factory-cleaned disposable bailer. Samples from extraction wells are typically collected from sample ports associated with the groundwater remediation system. Samples collected for volatile organic analysis are placed in Teflon septum-sealed 40-milliliter glass vials. Samples collected for diesel analysis are placed in 1-liter amber glass bottles. Each sample bottle is labeled with the site name, well number, date, sampler’s initials, and preservative. The samples are placed in a cooler with ice for delivery to a state-certified laboratory. The information for each sample is entered on a chain-of-custody form prior to transport to the laboratory.

Appendix B
Field Documents

Client: **Former Exxon 74121**

Date: *08-02-10*

Project Number: **UP4121.1.6**

Station Number: **74121**

Site Location:
10605 Foothill Boulevard, Oakland, CA

Samplers: *ALEX*

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	<i>17.06</i>					<i>24.00</i>	<i>20</i>
MW2	<i>18.99</i>					<i>24.72</i>	<i>20</i>
MW3	<i>17.75</i>					<i>23.55</i>	<i>20</i>
MW5	<i>17.30</i>					<i>25.40</i>	<i>20</i>

Project Name: Exxon 74121 Well No: *MW1* Date: *08-02-10*
 Project No: UP4121.1.6 Personnel: *AKK*

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)
	...	24.00	17.06	6.94	1	2	4	6	1.11
				0.04	0.16	0.64	1.44		

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

Time	1021	1024	1027			
Volume Purge (gal)	1.5	3	4.5			
Temperature (C)	18.3	18.6	18.7			
pH	6.67	6.59	7.02			
Spec. Cond. (umhos)	1325	1349	1342			
Turbidity/Color	5.0/100	5.0/100	5.0/100			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA *1035*
 Time Sampled: _____ Approximate Depth to Water During Sampling: *18.0* (feet)
 Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
<i>MW1</i>	<i>89</i>	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
<i>MW1</i>	<i>2</i>	AMBERS	NONE	1L		TPH-D

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

Project Name: Exxon 74121	Well No: MW 2	Date: 08-02-16
Project No: UP4121.1.6	Personnel: ALX	

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)	
		24.72	18.99	5.73	X	1	2	4	6	.91
					0.04	0.16	0.64	1.44		

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

Time	1043	1046	1049			
Volume Purge (gal)	1	2	3			
Temperature (C)	18.4	18.5	18.3			
pH	6.89	6.97	7.06			
Spec. Cond. (umhos)	1251	1210	1199			
Turbidity/Color	NTU / PCU	NTU / PCU	NTU / PCU			
Odor (Y/N)	N	N	N			
Casing Volumes	1	2	3			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

SAMPLING DATA 1100 Approximate Depth to Water During Sampling: 19.1 (feet)

Time Sampled: Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW 2	89	Voa	HCL	40 ml	/	TPH-g, BTEX, MTBE
MW 2	2	AMBERS	NONE	1L	/	TPH-D
					/	

Total Purge Volume: 3 (gallons) Disposal: SYSTEM

Weather Conditions: OK BOLTS / N

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

Well Head Conditions Requiring Correction: NONE GROUT / N

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

Comments: SECURED / N

GROUNDWATER PURGE AND SAMPLE FORM

Project Name: Exxon 74121	Well No: <i>MWB3</i>	Date: <i>0802-10</i>
Project No: UP4121.1.6	Personnel: <i>ALIX</i>	

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)
		<i>23.55</i>	<i>17.75</i>	<i>5.80</i>	<i>X</i> 1	<i>2</i>	4	6	<i>.92</i>
				0.04	0.16	0.64	1.44		

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

Time	<i>1153</i>	<i>1156</i>	<i>1159</i>			
Volume Purge (gal)	<i>1</i>	<i>2</i>	<i>3</i>			
Temperature (°C)	<i>18.9</i>	<i>18.2</i>	<i>17.9</i>			
pH	<i>7.02</i>	<i>7.07</i>	<i>7.09</i>			
Spec Cond. (umhos)	<i>1604</i>	<i>1607</i>	<i>1632</i>			
Turbidity/Color	<i>5140/PPM</i>	<i>5140/PPM</i>	<i>5140/PPM</i>			
Odor (Y/N)	<i>N</i>	<i>N</i>	<i>N</i>			
Casing Volumes	<i>1</i>	<i>2</i>	<i>3</i>			
Dewatered (Y/N)	<i>N</i>	<i>N</i>	<i>N</i>			

Comments/Observations:

SAMPLING DATA *12/10*

Time Sampled: Approximate Depth to Water During Sampling: *12.1* (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
<i>MWB3</i>	9	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
<i>MWB3</i>	2	AMBERS	NONE	1L		TPH-D

Total Purge Volume: *3* (gallons) Disposal: SYSTEM

Weather Conditions: *R* BOLTS *Y* / N

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

Well Head Conditions Requiring Correction: *NONE* GROUT *Y* / N

Problems Encountered During Purging and Sampling: *NONE* WELL BOX *Y* / N

Comments: SECURED *Y* / N

Project Name: Exxon 74121 Well No: *MWS* Date: *05-02-16*
 Project No: UP4121.1.6 Personnel: *AW*

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)
	<i>35.40</i>	<i>17.30</i>	<i>8.10</i>	<i>1</i>	<i>2</i>	<i>4</i>	<i>6</i>	<i>1.29</i>	<i>3.88</i>
			0.04	0.16	0.64	1.44			

PURGING DATA

Purge Method: *WATER* / BAILER / SUB Purge Rate: GPM

Time	<i>1115</i>	<i>1118</i>	<i>1121</i>			
Volume Purge (gal)	<i>1.5</i>	<i>3</i>	<i>4.5</i>			
Temperature (C)	<i>18.5</i>	<i>18.3</i>	<i>18.4</i>			
pH	<i>6.98</i>	<i>7.01</i>	<i>7.05</i>			
Spec. Cond. (umhos)	<i>1172</i>	<i>1177</i>	<i>1192</i>			
Turbidity/Color	<i>SMY/BPN</i>	<i>SMY/BPN</i>	<i>SMY/BPN</i>			
Odor (Y/N)	<i>N</i>	<i>N</i>	<i>N</i>			
Casing Volumes	<i>1</i>	<i>2</i>	<i>3</i>			
Dewatered (Y/N)	<i>N</i>	<i>N</i>	<i>N</i>			

Comments/Observations:

SAMPLING DATA

Time Sampled: *1135* Approximate Depth to Water During Sampling: *18.1* (feet)

Comments:

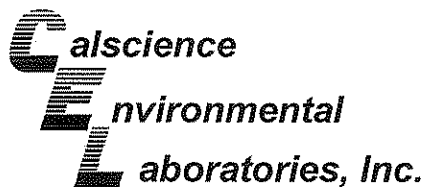
Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
<i>MWS</i>	<i>89</i>	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
<i>MWS</i>	<i>2</i>	AMBERS	NONE	1L		TPH-D

Total Purge Volume: *4.5* (gallons) Disposal: SYSTEM

Weather Conditions: *OK* BOLTS *Y* / N
 Condition of Well Box and Casing at Time of Sampling: *OK* CAP & LOCK *Y* / N
 Well Head Conditions Requiring Correction: *none* GROUT *Y* / N
 Problems Encountered During Purging and Sampling: *none* WELL BOX. *Y* / N
 Comments: SECURED *Y* / N

Appendix C

Laboratory Analytical Reports and Chain-of-Custody Documentation



August 10, 2010

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

Subject: **Calscience Work Order No.: 10-08-0095**
Client Reference: **ExxonMobil 74121, 10605 Foothill Blvd.,
Oakland, CA**

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 8/3/2010 and analyzed in accordance with the attached chain-of-custody.

Calscience Environmental Laboratories certifies that the test results provided in this report meet all NELAC requirements for parameters for which accreditation is required or available. Any exceptions to NELAC requirements are noted in the case narrative. 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. de Guia

Calscience Environmental
Laboratories, Inc.
Cecile deGuia
Project Manager

Analytical Report



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

Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	10-08-0095-1-J	08/02/10 10:35	Aqueous	GC 27	08/05/10	08/07/10 03:19	100805B13

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations \geq 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	U	ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Decachlorobiphenyl	100	68-140				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	10-08-0095-2-J	08/02/10 11:00	Aqueous	GC 27	08/05/10	08/07/10 03:37	100805B13

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations \geq 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	U	ug/L
Surrogates:	REC (%)	Control Limits	MDL		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	10-08-0095-3-J	08/02/10 12:10	Aqueous	GC 27	08/05/10	08/07/10 03:56	100805B13

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations \geq 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	U	ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Decachlorobiphenyl	98	68-140				

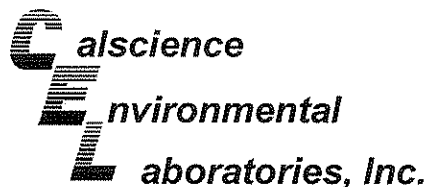
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	10-08-0095-4-J	08/02/10 11:35	Aqueous	GC 27	08/05/10	08/07/10 04:14	100805B13

Comment(s): -The sample extract was subjected to Silica Gel treatment prior to analysis.

-Results were evaluated to the MDL, concentrations \geq 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	U	ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Decachlorobiphenyl	98	68-140				

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



Analytical Report



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

Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

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	099-12-330-1,616	N/A	Aqueous	GC 27	08/05/10	08/07/10 02:26	100805B13

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	U	ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
Decachlorobiphenyl	95	68-140				

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

Analytical Report


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

 Date Received: 08/03/10
 Work Order No: 10-08-0095
 Preparation: EPA 5030B
 Method: EPA 8015B (M)

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	10-08-0095-1-E	08/02/10 10:35	Aqueous	GC 42	08/05/10	08/05/10 13:01	100805B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq 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	U	ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
1,4-Bromofluorobenzene	92	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	10-08-0095-2-E	08/02/10 11:00	Aqueous	GC 42	08/05/10	08/05/10 13:38	100805B01

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

-Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	720	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
1,4-Bromofluorobenzene	98	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	10-08-0095-3-E	08/02/10 12:10	Aqueous	GC 42	08/05/10	08/05/10 14:15	100805B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq 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	U	ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
1,4-Bromofluorobenzene	93	38-134				

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	10-08-0095-4-E	08/02/10 11:35	Aqueous	GC 42	08/05/10	08/05/10 14:51	100805B01

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.

-Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	290	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
1,4-Bromofluorobenzene	96	38-134				

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

Analytical Report



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

Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	10-08-0095-4-E	08/02/10 11:35	Aqueous	GC 42	08/05/10	08/05/10 14:51	100805B01

Comment(s): -The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard.
Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard.
-Results were evaluated to the MDL, concentrations \geq to the MDL but $<$ RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Units
TPH as Gasoline	290	50	48	1		ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
1,4-Bromofluorobenzene	96	38-134				

Method Blank	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-436-5,065	N/A	Aqueous	GC 42	08/05/10	08/05/10 06:19	100805B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq 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	U	ug/L
Surrogates:	REC (%)	Control Limits	MDL		Qual	
1,4-Bromofluorobenzene	94	38-134				

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

Analytical Report



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

Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8021B
Units: ug/L

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	10-08-0095-1-D	08/02/10 10:35	Aqueous	GC 8	08/04/10	08/04/10 13:57	100804B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq 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	U	Ethylbenzene	ND	0.50	0.17	1	U
Toluene	ND	0.50	0.17	1	U	Xylenes (total)	ND	1.0	0.26	1	U

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	10-08-0095-2-D	08/02/10 11:00	Aqueous	GC 8	08/04/10	08/04/10 15:30	100804B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq 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	U	Ethylbenzene	ND	0.50	0.17	1	U
Toluene	ND	0.50	0.17	1	U	Xylenes (total)	ND	1.0	0.26	1	U

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	87	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	10-08-0095-3-D	08/02/10 12:10	Aqueous	GC 8	08/04/10	08/04/10 16:02	100804B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq 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	U	Ethylbenzene	ND	0.50	0.17	1	U
Toluene	ND	0.50	0.17	1	U	Xylenes (total)	ND	1.0	0.26	1	U

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	70-130	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	10-08-0095-4-D	08/02/10 11:35	Aqueous	GC 8	08/04/10	08/04/10 16:32	100804B01

Comment(s): -Results were evaluated to the MDL, concentrations \geq 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	U	Ethylbenzene	ND	0.50	0.17	1	U
Toluene	ND	0.50	0.17	1	U	Xylenes (total)	ND	1.0	0.26	1	U

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	88	70-130	

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

Analytical Report



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

Date Received: 08/03/10
 Work Order No: 10-08-0095
 Preparation: EPA 5030B
 Method: EPA 8021B
 Units: ug/L

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

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	099-12-667-883	N/A	Aqueous	GC-8	08/04/10	08/04/10 12:54	100804B01

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	U	Ethylbenzene	ND	0.50	0.17	1	U
Toluene	ND	0.50	0.17	1	U	Xylenes (total)	ND	1.0	0.26	1	U
Surrogates:	REC (%)	Control Limits	Qual								
1,4-Bromofluorobenzene	91	70-130									

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

Analytical Report



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

Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	10-08-0095-1-A	08/02/10 10:35	Aqueous	GC/MS L	08/03/10	08/04/10 06:32	100803L02

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	0.23	1	U	Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Methyl-t-Butyl Ether (MTBE)	0.26	0.50	0.14	1	J	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	112	80-128		Dibromofluoromethane	106	80-127	
Toluene-d8	94	80-120		1,4-Bromofluorobenzene	87	68-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	10-08-0095-2-A	08/02/10 11:00	Aqueous	GC/MS L	08/03/10	08/04/10 07:00	100803L02

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	0.23	1	U	Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	108	80-128		Dibromofluoromethane	105	80-127	
Toluene-d8	110	80-120		1,4-Bromofluorobenzene	111	68-120	

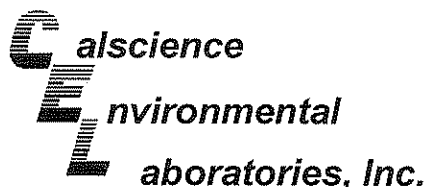
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW3	10-08-0095-3-A	08/02/10 12:10	Aqueous	GC/MS L	08/03/10	08/04/10 07:29	100803L02

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	0.23	1	U	Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	123	80-128		Dibromofluoromethane	121	80-127	
Toluene-d8	97	80-120		1,4-Bromofluorobenzene	86	68-120	

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



Analytical Report



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

Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	10-08-0095-4-A	08/02/10 11:35	Aqueous	GC/MS L	08/03/10	08/04/10 07:57	100803L02

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	0.23	1	U	Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	115	80-128		Dibromofluoromethane	110	80-127	
Toluene-d8	104	80-120		1,4-Bromofluorobenzene	100	68-120	

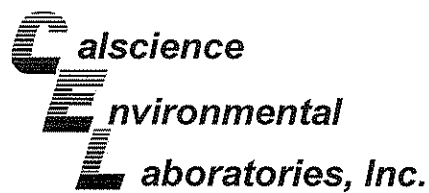
Method Blank	099-10-025-1,661	N/A	Aqueous	GC/MS L	08/03/10	08/03/10 23:55	100803L02
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Comment(s): -Results were evaluated to the MDL, concentrations >= to the MDL but < RL, if found, are qualified with a "J" flag.

Parameter	Result	RL	MDL	DF	Qual	Parameter	Result	RL	MDL	DF	Qual
1,2-Dibromoethane	ND	0.50	0.23	1	U	Diisopropyl Ether (DIPE)	ND	0.50	0.12	1	U
1,2-Dichloroethane	ND	0.50	0.075	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	0.25	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	0.14	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	0.12	1	U
Tert-Butyl Alcohol (TBA)	ND	10	4.0	1	U						

Surrogates:	REC (%)	Control Limits	Qual	Surrogates:	REC (%)	Control Limits	Qual
1,2-Dichloroethane-d4	116	80-128		Dibromofluoromethane	109	80-127	
Toluene-d8	101	80-120		1,4-Bromofluorobenzene	88	68-120	

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



Quality Control - Spike/Spike Duplicate



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

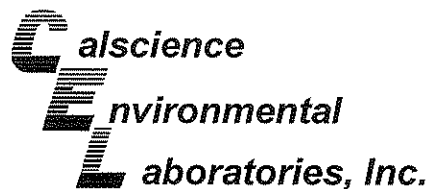
Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-08-0162-2	Aqueous	GC 42	08/05/10	08/05/10	100805S01

<u>Parameter</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>%REC CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Gasoline	86	91	68-122	6	0-18	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

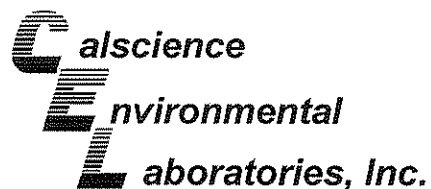
Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8021B

Project ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
MW1	Aqueous	GC 8	08/04/10	08/04/10	100804S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	83	85	57-129	3	0-23	
Toluene	84	84	50-134	0	0-26	
Ethylbenzene	85	85	58-130	0	0-26	
p/m-Xylene	86	85	58-130	1	0-28	
o-Xylene	83	84	57-123	0	0-26	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

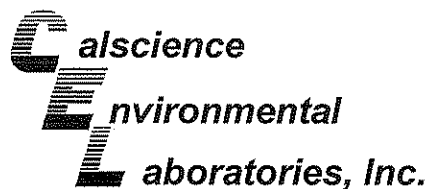
Date Received: 08/03/10
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8260B

Project ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-07-2301-3	Aqueous	GC/MS L	08/03/10	08/04/10	100803S02

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	108	100	76-124	7	0-20	
1,2-Dibromoethane	105	106	80-120	2	0-20	
1,2-Dichloroethane	113	115	80-120	2	0-20	
Ethylbenzene	75	70	78-126	7	0-20	3
Toluene	77	75	80-120	3	0-20	3
Methyl-t-Butyl Ether (MTBE)	87	104	67-121	17	0-49	
Tert-Butyl Alcohol (TBA)	102	98	36-162	3	0-30	
Diisopropyl Ether (DIPE)	93	105	60-138	12	0-45	
Ethyl-t-Butyl Ether (ETBE)	91	97	69-123	7	0-30	
Tert-Amyl-Methyl Ether (TAME)	99	93	65-120	7	0-20	
Ethanol	92	113	30-180	20	0-72	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

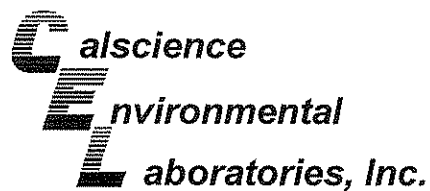
Date Received: N/A
Work Order No: 10-08-0095
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-1,616	Aqueous	GC 27	08/05/10	08/09/10	100805B13

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	77	76	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

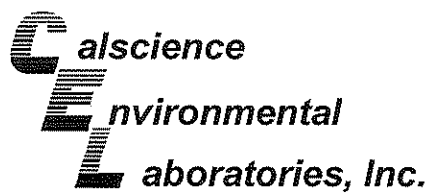
Date Received: N/A
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8015B (M)

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-5,065	Aqueous	GC 42	08/05/10	08/05/10	100805B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	96	96	78-120	0	0-10	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

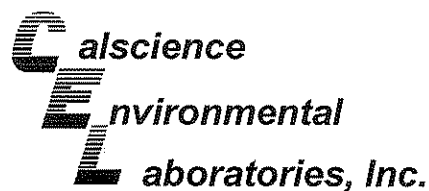
Date Received: N/A
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8021B

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-667-883	Aqueous	GC 8	08/04/10	08/04/10	100804B01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	89	70-118	1	0-9	
Toluene	88	88	66-114	1	0-9	
Ethylbenzene	90	89	72-114	1	0-9	
p/m-Xylene	92	90	74-116	2	0-9	
o-Xylene	88	87	72-114	2	0-9	

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 10-08-0095
Preparation: EPA 5030B
Method: EPA 8260B

Project: ExxonMobil 74121, 10605 Foothill Blvd., Oakland, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-10-025-1,661	Aqueous	GC/MS L	08/03/10	08/03/10	100803L02

Parameter	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	99	99	80-120	73-127	0	0-20	
1,2-Dibromoethane	97	98	79-121	72-128	1	0-20	
1,2-Dichloroethane	106	109	80-120	73-127	2	0-20	
Ethylbenzene	101	102	80-120	73-127	1	0-20	
Toluene	101	100	80-120	73-127	2	0-20	
Methyl-t-Butyl Ether (MTBE)	100	99	69-123	60-132	1	0-20	
Tert-Butyl Alcohol (TBA)	90	95	63-123	53-133	5	0-20	
Diisopropyl Ether (DIPE)	104	101	59-137	46-150	3	0-37	
Ethyl-t-Butyl Ether (ETBE)	97	93	69-123	60-132	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	89	90	70-120	62-128	1	0-20	
Ethanol	105	109	28-160	6-182	3	0-57	

Total number of LCS compounds : 11

Total number of ME compounds : 0

Total number of ME compounds allowed : 1

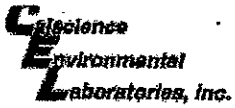
LCS ME CL validation result : Pass

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 10-08-0095

<u>Qualifier</u>	<u>Definition</u>
*	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 or PES/PESD 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 without further clarification.
B	Analyte was present in the associated method blank.
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.
ME	LCS recovery percentage is within LCS ME control limit range.
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.
U	Undetected at detection limit.
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.



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

CHAIN OF CUSTODY RECORD

DATE: *08-02-10*

PAGE: 1 OF 1

LABORATORY CLIENT: ExxonMobil c/o ETIC Engineering				CLIENT PROJECT NAME / NUMBER: 74121, 10605 Foothill Boulevard, CA				P.O. NO.: 4512012296										
ADDRESS: 2285 Morello Avenue				PROJECT CONTACT: Erik Appel, ETIC Engineering				Project Number: TM4121.1.6										
CITY: Pleasant Hill, CA 94523				SAMPLER(S): (SIGNATURE) <i>[Signature]</i>				QUOTE NO.:										
TEL: 925-602-4710 x21		FAX: 925-602-4720		E-MAIL: see instructions		LAB USE ONLY 08 00 95												
TURNAROUND TIME <input type="checkbox"/> SAME DAY <input type="checkbox"/> 24 HR <input type="checkbox"/> 48HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> 5 DAYS <input type="checkbox"/> 10 DAYS								REQUESTED ANALYSIS										
SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY) <input type="checkbox"/> RWQCB REPORTING <input type="checkbox"/> ARCHIVE SAMPLES UNTIL <u> </u> / <u> </u> / <u> </u>																		
SPECIAL INSTRUCTIONS edf file required, Global ID #T0600120383 email report to eappel@eticeng.com & eticlabreports@eticeng.com * Use Silica Gel Cleanup for TPH-d analysis																		
LAB USE ONLY	SAMPLE ID	LOCATION/ DESCRIPTION	SAMPLING		Matrix	#Cont	TPH-g by EPA Method 8015B	BTEX by EPA Method 8021B (M)	TPH-d by EPA Method 8015B *	MTBE, TBA, DIPE, YAME, ETBE, EDB, 1,2-DCA by EPA Method 8260B								
			DATE	TIME														
1	MW1		<i>08-02-10</i>	<i>1:35</i>	Water	11	X	X	X	X								
2	MW2		↓	<i>1100</i>	Water	11	X	X	X	X								
3	MW3		↓	<i>1210</i>	Water	11	X	X	X	X								
4	MW5		↓	<i>1135</i>	Water	11	X	X	X	X								
Relinquished by: (Signature) <i>[Signature]</i> <i>08-02-10 11:30</i>							Received by: (Signature) <i>[Signature]</i>				Date: <i>8/2/10</i>		Time: <i>1430</i>					
Relinquished by: (Signature) <i>[Signature]</i> <i>08-02-10 1730</i>							Received by: (Signature) <i>[Signature]</i>				Date: <i>8/3/10</i>		Time: <i>10:30</i>					
Relinquished by: (Signature) <i>[Signature]</i>							Received by: (Signature) <i>[Signature]</i>				Date:		Time:					

0095

GSO

GARDEN GROVE

< WebShip > > > > >

800-322-5555 www.gso.com

Ship From:ALAN KEMP
CAL SCIENCE- CONCORD
5063 COMMERCIAL CIRCLE #H
CONCORD, CA 94520

Tracking #: 514664795



NPS

ORC

D

Ship To:SAMPLE RECEIVING
CEL
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

GARDEN GROVE

D92843A

COD:

\$0.00



83587026

Reference:

BTS, ERI, CRA

Delivery Instructions:**Signature Type:**

SIGNATURE REQUIRED

Print Date : 08/02/10 15:07 PM

Package 1 of 1

Send Label To Printer

 Print All

Edit Shipment

Finish

LABEL INSTRUCTIONS:**Do not copy or reprint this label for additional shipments - each package must have a unique barcode.**

STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.

STEP 2 - Fold this page in half.

STEP 3 - Securely attach this label to your package, do not cover the barcode.

STEP 4 - Request an on-call pickup for your package, if you do not have scheduled daily pickup service or Drop-off your package at the nearest GSO drop box. Locate nearest GSO dropbox locations using this link.

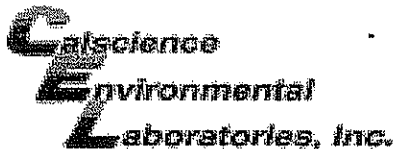
ADDITIONAL OPTIONS:

Send Label Via Email

Create Return Label

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all the service terms and conditions described in this section. Our liability for loss or damage to any package is limited to your actual damages or \$100 whichever is less, unless you pay for and declare a higher authorized value. If you declare a higher value and pay the additional charge, our liability will be the lesser of your declared value or the actual value of your loss or damage. In any event, we will not be liable for any damage, whether direct, incidental, special or consequential, in excess of the declared value of a shipment whether or not we had knowledge that such damage might be incurred including but not limited to loss of income or profit. We will not be liable for your acts or omissions, including but not limited to improper or insufficient packaging, securing, marking or addressing. Also, we will not be liable if you or the recipient violates any of the terms of our agreement. We will not be liable for loss, damage or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, act of public enemies, war, strikes, or civil commotion. The highest declared value for our GSO Priority Letter or GSO Priority Package is \$500. For other shipments the highest declared value is \$10,000 unless your package contains items of "extraordinary value", in which case the highest declared value we allow is \$500. Items of "extraordinary value" include, but are not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



WORK ORDER #: 10-08-0095

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: ETIC

DATE: 08/03/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 2.3 °C + 0.5 °C (CF) = 2.8 °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: S

SAMPLE CONDITION:

	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels.			
<input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
pH / Residual Chlorine / Dissolved Sulfide received within 24 hours.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Water: VOA VOA^h VOAn₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBn₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 500PB 500PBna

250PB 250PBn 125PB 125PBz_{nna} 100PJ 100PJn₂ _____ _____ _____

Air: Tedlar® Summa® **Other:** _____ **Trip Blank Lot#:** _____ **Labeled/Checked by:** S

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

Preservative: h: HCL n: HNO₃ n₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ z_{nna}: ZnAc₂+NaOH f: Field-filtered **Scanned by:** S