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Global Remediation - US Retail  
4096 Piedmont Avenue #194  
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jennifer.c.sedlachek@exxonmobil.com

Jennifer C. Sedlachek  
Project Manager

**RECEIVED**

By loprojectop at 9:42 am, Apr 10, 2006

**ExxonMobil**  
Refining & Supply

April 6, 2006

Mr. Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway  
Alameda, CA 94501-6577

Subject: Former Exxon RAS #7-0210, 7840 Amador Valley Boulevard, Dublin, California

Dear Mr. Chan:

Attached for your review and comment is a copy of the *Report of Groundwater Monitoring, First Quarter 2006* for the above-referenced site. The report, prepared by ETIC Engineering, Inc. of Pleasant Hill, California, details the results of the February 2006 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,

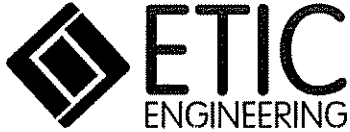


JCS  
Jennifer C. Sedlachek  
Project Manager

Attachment: ETIC Groundwater Monitoring Report dated April 2006

c: w/ attachment:  
Mr Robert Ehlers - Valero Energy Corporation

c: w/o attachment:  
Ms. Christa Marting - ETIC Engineering, Inc.



**RECEIVED**

By loprojectop at 9:43 am, Apr 10, 2006

**Report of Groundwater Monitoring  
First Quarter 2006**

**Former Exxon Retail Site 7-0210  
7840 Amador Valley Boulevard  
Dublin, California**

Prepared for

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

Prepared by

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

*Ted Moise*

Ted Moise  
Senior Project Manager

*4/5/06*

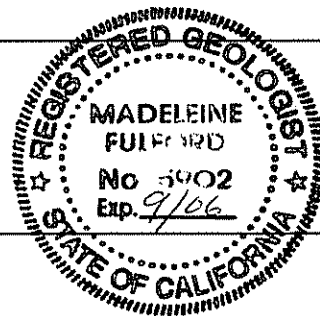
Date

*Madeleine Fulford*

Madeleine Fulford, R.G. #5902  
Senior Geologist

*4/5/06*

Date



## **SITE CONTACTS**

Station Number: Former Exxon Retail Site 7-0210

Station Address: 7840 Amador Valley Boulevard  
Dublin, California

ExxonMobil Project Manager: Jennifer C. Sedlachek  
ExxonMobil Refining and Supply Company  
4096 Piedmont Avenue #194  
Oakland, California 94611  
(510) 547-8196

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

ETIC Project Manager: Ted Moise

Regulatory Oversight: Barney Chan  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway  
Alameda, California 94501-6577  
(510) 567-6700

## INTRODUCTION

At the request of ExxonMobil Oil Corporation, ETIC Engineering, Inc. has prepared this quarterly groundwater monitoring report for former Exxon Retail Site 7-0210. This report presents the results for the most recent groundwater monitoring conducted at the site and summarizes recent site activities. This report covers site activities from 17 November 2005, the date of the last monitoring event, until 6 February 2006, the date of the recent monitoring event. Groundwater monitoring results, well construction details, and a groundwater monitoring plan are provided in the attached figures and tables. Groundwater monitoring protocols, field data, and analytical results are provided in the attached appendixes.

## GENERAL SITE INFORMATION

<b>Site name:</b>	Former Exxon Retail Site 7-0210
<b>Site address:</b>	7840 Amador Valley Boulevard, Dublin, California
<b>Current property owner:</b>	Dublin Valero, Inc.
<b>Current site use:</b>	Active Valero-branded station operated by Dublin Valero, Inc.
<b>Current phase of project:</b>	Groundwater monitoring
<b>Tanks at site:</b>	Three underground storage tanks (gasoline)
<b>Number of wells:</b>	3 (all onsite)

## GROUNDWATER MONITORING SUMMARY

<b>Gauging and sampling date:</b>	6 February 2006
<b>Wells gauged and sampled:</b>	MW5-MW7
<b>Wells gauged only:</b>	None
<b>Groundwater flow direction:</b>	Southeast
<b>Groundwater gradient:</b>	0.004
<b>Well screens submerged:</b>	None
<b>Well screens not submerged:</b>	MW5-MW7
<b>Liquid-phase hydrocarbons:</b>	Not observed or detected
<b>Laboratory:</b>	Sequoia Analytical/TestAmerica, Inc., Morgan Hill, California

### Analyses performed:

- Total Petroleum Hydrocarbons as gasoline by EPA Method 8015B
- Total Petroleum Hydrocarbons as diesel by EPA Method 8015B
- Benzene, toluene, ethylbenzene, and total xylenes by EPA Method 8021B
- Methyl t-butyl ether by EPA Method 8260B
- Ethyl t-butyl ether, t-amyl methyl ether, t-butyl alcohol, 1,2-dibromoethane, 1,2-dichloroethane, and diisopropyl ether by EPA Method 8260B

## **ADDITIONAL ACTIVITIES PERFORMED AT SITE**

No additional activities were performed at the site.

## **WORK PROPOSED FOR NEXT QUARTER**

Groundwater will be monitored in accordance with the attached groundwater monitoring plan. ExxonMobil plans to discuss site details with the Alameda County Health Care Services Agency concerning site closure.

### **Attachments:**

Figure 1: Site Plan Showing Groundwater Elevations and Analytical Results

Table 1: Well Construction Details

Table 2: Groundwater Monitoring Data

Table 3: Groundwater Monitoring Plan

Appendix A: Field Protocols

Appendix B: Field Documents

Appendix C: Laboratory Analytical Reports

## **Figures**



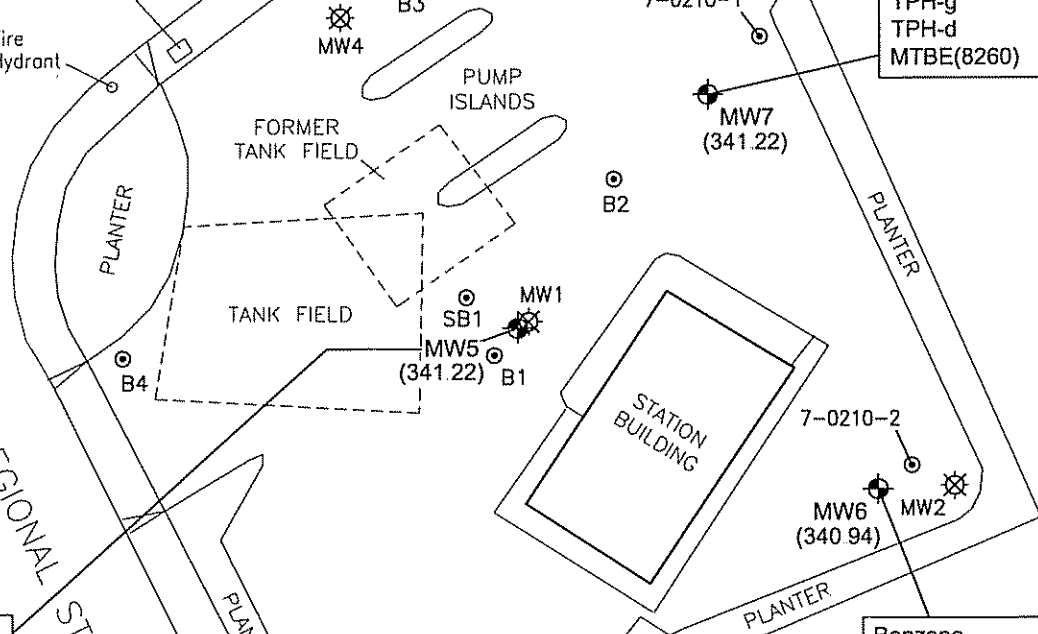
Groundwater  
Flow Direction  
Gradient = 0.004

AMADOR VALLEY BLVD.

Underground Vault  
Fire Hydrant

Electrical Christy Box

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



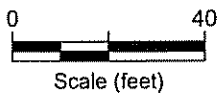
Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylenes	<0.5
TPH-g	<50
TPH-d	<50
MTBE(8260)	1.1

PG&E Christy Box  
Underground Vault

Benzene	<0.5
Toluene	<0.5
Ethylbenzene	<0.5
Xylenes	<0.5
TPH-g	<50
TPH-d	<50
MTBE(8260)	2.7

**LEGEND**

- GROUNDWATER MONITORING WELL LOCATION
- SOIL BORING / GROUNDWATER SAMPLING LOCATION
- DESTROYED GROUNDWATER MONITORING WELL
- (341.22) GROUNDWATER ELEVATION (FEET)
- TPH-g TOTAL PETROLEUM HYDROCARBONS AS GASOLINE
- TPH-d TOTAL PETROLEUM HYDROCARBONS AS DIESEL
- MTBE METHYL T-BUTYL ETHER



CONCENTRATIONS IN MICROGRAMS PER LITER (ug/L)

FILENAME: 102006.DWG 03/02/06



SITE PLAN SHOWING GROUNDWATER ELEVATIONS  
AND ANALYTICAL RESULTS  
FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BLVD., DUBLIN, CA.  
6 FEBRUARY 2006

FIGURE:

**1**

## **Tables**



TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, 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	04/14/92	96.32	PVC	26.5	24.75	10.25	4	11-24	0.010	10-25	--
MW2	a	05/13/92	95.91	PVC	26	25	10.25	4	10-25	0.010	9.5-26	--
MW3	a	05/14/92	97.95	PVC	28	27.75	10.25	4	12.5-27.5	0.010	11-28	--
MW4	a	05/14/92	96.69	PVC	26.5	25	10.25	4	12-25	0.010	11-26	--
MW5	b	11/15/00	352.95	PVC	25	25	8.25	2	10-25	0.020	7-25	#3 sand
MW6	b	11/14/00	352.69	PVC	27	25	8.25	2	10-25	0.020	8-27	#3 sand
MW7	b	11/14/00	351.87	PVC	26	25	8.25	2	10-25	0.020	7-25	#3 sand

a Well was destroyed April 1996.  
 b Elevation is based on the Alameda Benchmark AM-STW. Elevation = 344.17 feet.  
 PVC Polyvinyl chloride.  
 TOC Top of casing.  
 -- Information not available.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)	Ethanol (µg/L)	Other
														Oxygenates and Additives (µg/L)
MW1	05/21/92	96.32	14.45	81.87	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW1	02/10/93	96.32	12.22	84.10	0.00	3.1	<0.5	1.8	0.6	2,600				NA
MW1	05/20/93	96.32	10.74	85.58	0.00	1.9	<0.5	1.8	<1.0	1,000				NA
MW1	06/23/93	96.32	11.74	84.58	0.00	1.0	<0.5	1.2	<0.5	1,300				NA
MW1	08/23/93	96.32	12.72	83.60	0.00	<0.5	<0.5	<0.5	0.8	80				NA
MW1	10/25/93	96.32	13.99	82.33	0.00	<0.5	<0.5	0.8	1.3	140				NA
MW1	02/16/94	96.32	14.90	81.42	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW1	04/16/94	96.32	14.49	81.83	0.00	<0.5 <sup>b</sup>	<0.5	<0.5	<0.5	190				NA
MW1	07/26/94	96.32	15.11	81.21	0.00	<0.5 <sup>b</sup>	<0.5	<0.5	<0.5	130				NA
MW1	10/05/94	96.32	15.69	80.63	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW1	01/04/95	96.32	14.66	81.66	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW1	06/12/95	96.32	10.08	86.24	0.00	<0.5	<0.5	<0.5	<0.5	<50				230
MW1				Well destroyed April 1996.										
MW2	05/21/92	95.91	14.30	81.61	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	02/10/93	95.91	12.34	83.57	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	05/20/93	95.91	10.73	85.18	0.00	<0.5	<0.5	<0.5	<1.0	320				NA
MW2	06/23/93	95.91	11.74	84.17	0.00	<0.5	<0.5	<0.5	<0.5	130				NA
MW2	08/23/93	95.91	12.60	83.31	0.00	<0.5	<0.5	<0.5	1.1	140				NA
MW2	10/25/93	95.91	13.86	82.05	0.00	<0.5	<0.5	0.5	2.4	75				NA
MW2	02/16/94	95.91	14.73	81.18	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	04/16/94	95.91	14.33	81.58	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	07/26/94	95.91	14.96	80.95	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	10/05/94	95.91	15.49	80.42	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	01/04/95	95.91	14.44	81.47	0.00	<0.5	<0.5	<0.5	<0.5	<50				NA
MW2	06/12/95	95.91	10.10	85.81	0.00	<0.5	<0.5	<0.5	<0.5	<50				59
MW2				Well destroyed April 1996.										

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Concentrations (µg/L)					Other Oxygenates (µg/L)		
						Benzene	Toluene	Ethylbenzene	Total Xylenes	TPH-g	TPH-d	MTBE	Ethanol
MW3	05/21/92	97.95	16.05	81.90	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW3	02/10/93	97.95	13.77	84.18	0.00	<0.5	<0.5	<0.5	0.7	<50		NA	
MW3	05/20/93	97.95	12.32	85.63	0.00	<0.5	<0.5	<0.5	<1.0	<50		NA	
MW3	06/23/93	97.95	13.34	84.61	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW3	08/23/93	97.95	14.30	83.65	0.00	2.3	1.2	1.4	4.1	<50		NA	
MW3	10/25/93	97.95	15.62	82.33	0.00	NS	NS	NS	NS	NS		NS	
MW3	02/16/94	97.95	16.48	81.47	0.00	NS	NS	NS	NS	NS		NS	
MW3	04/16/94	97.95	16.61	81.34	0.00	NS	NS	NS	NS	NS		NS	
MW3	07/26/94	97.95	16.72	81.23	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW3	10/05/94	97.95	17.33	80.62	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW3	01/04/95	97.95	16.29	81.66	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW3	06/12/95	97.95	11.67	86.28	0.00	<0.5	<0.5	<0.5	<0.5	<50		<2.5	
MW3			Well destroyed April 1996.										
MW4	05/21/92	96.69	14.59	82.10	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW4	02/10/93	96.69	12.30	84.39	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW4	05/20/93	96.69	10.75	85.94	0.00	1.4	1.0	<0.5	1.8	<50		NA	
MW4	06/23/93	96.69	11.78	84.91	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW4	08/23/93	96.69	12.82	83.87	0.00	<0.5	<0.5	<0.5	0.8	<50		NA	
MW4	10/25/93	96.69	14.10	82.59	0.00	NS	NS	NS	NS	NS		NS	
MW4	02/16/94	96.69	15.02	81.67	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW4	04/16/94	96.69	14.61	82.08	0.00	NS	NS	NS	NS	NS		NS	
MW4	07/26/94	96.69	15.23	81.46	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW4	10/05/94	96.69	15.85	80.84	0.00	<0.5	12	<0.5	<0.5	<50		NA	
MW4	01/04/95	96.69	14.84	81.85	0.00	<0.5	<0.5	<0.5	<0.5	<50		NA	
MW4	06/12/95	96.69	10.07	86.62	0.00	<0.5	<0.5	<0.5	<0.5	<50		<2.5	

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)	Ethanol (µg/L)	Other
														Oxygenates and Additives (µg/L)
MW4		Well destroyed April 1996.												
MW5	06/15/00	STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION												
MW5	11/17/00	352.93	13.51	339.42	0.00	<0.5	<0.5	<0.5	2.46	240		1,500		
MW5	11/17/00	352.93										1,600 <sup>a</sup>		
MW5	02/02/01	352.93	13.81	339.12	0.00	<0.5	<0.5	<0.5	<0.5	110		1,400		
MW5	02/02/01	352.93										1,200 <sup>a</sup>		
MW5	05/09/01	352.93	12.20	340.73	0.00	<0.5	<0.5	<0.5	<0.5	<50		770 <sup>a</sup>		ND <sup>c</sup>
MW5	09/12/01	352.93	13.84	339.09	0.00	<0.5	<0.5	<0.5	<0.5	100		760		NA
MW5	09/12/01	352.93										800 <sup>a</sup>		
MW5	11/05/01	352.95	14.14	338.81	0.00	<0.5	<0.5	<0.5	0.61	70	86	510		NA
MW5	11/05/01	352.95										420 <sup>a</sup>		
MW5	02/04/02	352.95	11.85	341.10	0.00	<0.5	<0.5	<0.5	<0.5	381	d	<50	630	NA
MW5	02/04/02	352.95										525 <sup>a</sup>		
MW5	04/26/02	352.95	11.75	341.20	0.00	<0.5	<0.5	<0.5	<0.5	322	d	<50	378	NA
MW5	04/26/02	352.95										312 <sup>a</sup>		
MW5	07/30/02	352.95	12.87	340.08	0.00	<0.5	<0.5	<0.5	<0.5	97.8	d	<50	126	NA
MW5	07/30/02	352.95										132 <sup>a</sup>		
MW5	11/05/02	352.95	14.13	338.82	0.00	<0.5	<0.5	<0.5	<0.5	74.2	d	<50	80.0	NA
MW5	11/05/02	352.95										96.4 <sup>a</sup>		
MW5	01/24/03	352.95	11.23	341.72	0.00	<0.5	<0.5	<0.5	<0.5	542	d	70	678	NA
MW5	01/24/03	352.95										509 <sup>a</sup>		
MW5	04/24/03	352.95	10.79	342.16	0.00	<0.5	<0.5	<0.5	<0.5	384	d	<50	522	NA
MW5	04/24/03	352.95										498 <sup>a</sup>		
MW5	08/05/03	352.95	12.24	340.71	0.00	<0.5	1.6	<0.5	1.3	282	d	<50	560	NA
MW5	08/05/03	352.95										428 <sup>a</sup>		
MW5	10/17/03	352.95	13.64	339.31	0.00	<0.5	1.6	<0.5	0.9	229	d	<50	284	NA

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)	Ethanol (µg/L)	Other	
														Oxygenates and Additives (µg/L)	
MW5	10/17/03	352.95										272 <sup>a</sup>			
MW5	01/28/04	352.95	12.41	340.54	0.00	<0.5	0.9	<0.5	1.1	283	d	NA <sup>c</sup>	485	NA	
MW5	01/28/04	352.95										453 <sup>a</sup>			
MW5	04/16/04	352.95	11.67	341.28	0.00	<0.5	<0.5	<0.5	<0.5	163	d	<50	200 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	08/03/04	352.95	13.39	339.56	0.00	<0.5	<0.5	<0.5	1.0	553	d	<50	92.8 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	11/04/04	352.95	13.17	339.78	0.00	<0.5	<0.5	<0.5	<0.5	117	d	<50	117 <sup>a</sup>	<100 <sup>a</sup>	ND <sup>c</sup>
MW5	02/16/05	352.95	10.81	342.14	0.00	<0.50	<0.5	<0.5	<0.5	<50.0	d	<50	43.2 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	05/16/05	352.95	9.92	343.03	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	29.5 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	08/17/05	352.95	11.84	341.11	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	2.29 <sup>a</sup>	<100 <sup>a</sup>	NA
MW5	11/17/05	352.95	13.77	339.18	0.00	<0.5	<0.5	<0.5	1.18	72.6	d	<50	1.02 <sup>a</sup>	<50 <sup>a</sup>	ND <sup>c</sup>
<b>MW5</b>	<b>02/06/06</b>	<b>352.95</b>	<b>11.73</b>	<b>341.22</b>	<b>0.00</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;50</b>	<b>d</b>	<b>&lt;50</b>	<b>1.1<sup>a</sup></b>	<b>NA</b>	<b>ND<sup>c</sup></b>
MW6	06/15/00	STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION													
MW6	11/17/00	352.66	13.47	339.19	0.00	<0.5	<0.5	<0.5	<0.5	<50			270		
MW6	11/17/00	352.66											260 <sup>a</sup>		
MW6	02/02/01	352.66	13.79	338.87	0.00	<0.5	<0.5	<0.5	<0.5	<50			160		
MW6	02/02/01	352.66											130 <sup>a</sup>		
MW6	05/09/01	352.66	12.25	340.41	0.00	<0.5	<0.5	<0.5	<0.5	<50			760 <sup>a</sup>	ND <sup>c</sup>	
MW6	09/12/01	352.66	13.83	338.83	0.00	<0.5	<0.5	<0.5	<0.5	<50			680	NA	
MW6	09/12/01	352.66											740 <sup>a</sup>		
MW6	11/05/01	352.69	14.11	338.58	0.00	<0.5	<0.5	<0.5	<0.5	<50	<50		390	NA	
MW6	11/05/01	352.69											320 <sup>a</sup>		
MW6	02/27/02	352.69	11.77	340.92	0.00	<5.0	<5.0	8.00	<5.0	1,380	d	NA	1,310	ND <sup>c</sup>	
MW6	02/27/02	352.69											1,410 <sup>a</sup>		
MW6	04/26/02	352.69	11.75	340.94	0.00	<0.5	<0.5	<0.5	<0.5	422	d	<50	482	NA	
MW6	04/26/02	352.69											430 <sup>a</sup>		
MW6	07/30/02	352.69	12.88	339.81	0.00	<2.5	<2.5	<2.5	<2.5	144	d	<50	166	NA	

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)	Ethanol (µg/L)	Other	
														Oxygenates and Additives (µg/L)	
MW6	07/30/02	352.69										185 <sup>a</sup>			
MW6	11/05/02	352.69	14.12	338.57	0.00	<0.5	<0.5	<0.5	<0.5	99.7	d	<50	114	NA	
MW6	11/05/02	352.69										118 <sup>a</sup>			
MW6	01/24/03	352.69	11.32	341.37	0.00	<0.5	<0.5	<0.5	<0.5	342	d	84	388	NA	
MW6	01/24/03	352.69										293 <sup>a</sup>			
MW6	04/24/03	352.69	10.84	341.85	0.00	<0.5	<0.5	<0.5	<0.5	370	d	<50	509	NA	
MW6	04/24/03	352.69										491 <sup>a</sup>			
MW6	08/05/03	352.69	12.25	340.44	0.00	<0.5	<0.5	<0.5	<0.5	967	d	<50	1,240	NA	
MW6	08/05/03	352.69										1,010 <sup>a</sup>			
MW6	10/17/03	352.69	13.63	339.06	0.00	<0.5	1.2	<0.5	0.5	476	d	<50	528	NA	
MW6	10/17/03	352.69										535 <sup>a</sup>			
MW6	01/28/04	352.69	12.40	340.29	0.00	<0.5	0.8	<0.5	0.9	154	d	<50	283	NA	
MW6	01/28/04	352.69										244 <sup>a</sup>			
MW6	04/16/04	352.69	11.68	341.01	0.00	<0.5	<0.5	<0.5	<0.5	219	d	<50	301 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	08/03/04	352.69	13.37	339.32	0.00	<0.5	<0.5	<0.5	<0.5	243	d	<50	62.3 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	11/04/04	352.69	13.13	339.56	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	25.0 <sup>a</sup>	<100 <sup>a</sup>	ND <sup>c</sup>
MW6	02/16/05	352.69	10.77	341.92	0.00	<0.50	0.8	<0.5	1.4	53.5	d	<50	52.3 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	05/16/05	352.69	9.98	342.71	0.00	<0.5	<0.5	<0.5	1.2	59.7	d	<50	30.1 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	08/17/05	352.69	11.84	340.85	0.00	<0.5	0.574	<0.5	0.843	<50	d	<50	4.21 <sup>a</sup>	<100 <sup>a</sup>	NA
MW6	11/17/05	352.69	13.70	338.99	0.00	<0.5	<0.5	<0.5	<0.5	<50	d	<50	1.45 <sup>a</sup>	<50 <sup>a</sup>	ND <sup>c</sup>
<b>MW6</b>	<b>02/06/06</b>	<b>352.69</b>	<b>11.75</b>	<b>340.94</b>	<b>0.00</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;50</b>	<b>d</b>	<b>&lt;50</b>	<b>2.7<sup>a</sup></b>	<b>NA</b>	<b>ND<sup>c</sup></b>
MW7	06/15/00	STATION OPERATIONS TRANSFERRED TO VALERO ENERGY CORPORATION													
MW7	11/17/00	351.86	12.44	339.42	0.00	<0.5	<0.5	<0.5	<0.5	<50			<0.5		
MW7	02/02/01	351.86	12.74	339.12	0.00	<0.5	<0.5	<0.5	<0.5	<50			<0.5		
MW7	05/09/01	351.86	11.15	340.71	0.00	<0.5	<0.5	<0.5	<0.5	<50			<5 <sup>a</sup>	ND <sup>c</sup>	
MW7	09/12/01	351.86	12.74	339.12	0.00	<0.5	<0.5	<0.5	<0.5	<50			<0.5	NA	

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)	Ethanol (µg/L)	Other
														Oxygenates and Additives (µg/L)
MW7	11/05/01	351.87	13.07	338.80	0.00	<0.5	<0.5	<0.5	<0.5	<50	50	<0.5		NA
MW7	02/04/02	351.87	10.79	341.08	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	5.80		NA
MW7	02/04/02	351.87										1.4 <sup>a</sup>		
MW7	04/26/02	351.87	10.65	341.22	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	1.6		NA
MW7	07/30/02	351.87	11.77	340.10	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	<0.5		NA
MW7	11/05/02	351.87	13.04	338.83	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	<0.5		NA
MW7	01/24/03	351.87	10.19	341.68	0.00	<0.5	<0.5	<0.5	<0.5	<50	d 106	<0.5		NA
MW7	04/24/03	351.87	9.76	342.11	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	<0.5		NA
MW7	08/05/03	351.87	11.18	340.69	0.00	<0.5	1.6	<0.5	<0.5	<50	d <50	<0.5		NA
MW7	10/17/03	351.87	12.54	339.33	0.00	<0.5	1.7	<0.5	0.9	<50	d <50	<0.5		NA
MW7	01/28/04	351.87	11.33	340.54	0.00	<0.5	1.0	<0.5	0.9	<50	d <50	<0.5		NA
MW7	04/16/04	351.87	10.57	341.30	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	<0.5 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	08/03/04	351.87	12.30	339.57	0.00	<0.5	<0.5	<0.5	<0.5	94.0	d <50	<0.5 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	11/04/04	351.87	12.08	339.79	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	<0.5 <sup>a</sup>	<100 <sup>a</sup>	ND <sup>c</sup>
MW7	02/16/05	351.87	9.73	342.14	0.00	<0.50	<0.5	<0.5	<0.5	<50.0	d <50	<0.50 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	05/16/05	351.87	8.87	343.00	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	<0.50 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	08/17/05	351.87	10.73	341.14	0.00	<0.5	<0.5	<0.5	0.880	<50	d <50	<0.50 <sup>a</sup>	<100 <sup>a</sup>	NA
MW7	11/17/05	351.87	12.63	339.24	0.00	<0.5	<0.5	<0.5	<0.5	<50	d <50	<0.50 <sup>a</sup>	<50 <sup>a</sup>	ND <sup>c</sup>
<b>MW7</b>	<b>02/06/06</b>	<b>351.87</b>	<b>10.65</b>	<b>341.22</b>	<b>0.00</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;0.5</b>	<b>&lt;50</b>	<b>d &lt;50</b>	<b>&lt;0.50<sup>a</sup></b>	<b>NA</b>	<b>ND<sup>c</sup></b>

a Analysis by EPA Method 8260.

b A peak eluting earlier than benzene, suspected to be MTBE.

c Other oxygenates and additives include diisopropyl ether, t-butyl alcohol, tert-amyl methyl ether, tert-butyl ethyl ether, 1,2-dibromoethane, and 1,2-dichloroethane.

d TPH-g results beginning February 2002 include MTBE.

e Sample bottles broken in transit to laboratory.

TABLE 2 GROUNDWATER MONITORING DATA, FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Date	Casing Elevation (feet)	Depth to Water (feet)	Groundwater Elevation (feet)	LPH Thickness (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl- benzene (µg/L)	Total Xylenes (µg/L)	TPH-g (µg/L)	TPH-d (µg/L)	MTBE (µg/L)	Ethanol (µg/L)	Other
														Oxygenates and Additives (µg/L)

LPH Liquid-phase hydrocarbons.

TPH-g Total Petroleum Hydrocarbons as gasoline.

TPH-d Total Petroleum Hydrocarbons as diesel.

MTBE Methyl tertiary butyl ether.

NA Not analyzed.

ND Not detected.

NS Not sampled.

µg/L Micrograms per liter.



TABLE 3 GROUNDWATER MONITORING PLAN,  
 FORMER EXXON RS 7-0210, 7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA

Well Number	Groundwater Gauging Frequency	Groundwater Sampling and Analysis Frequency			
		BTEX and TPH-g	TPH-d	MTBE	Ethanol
MW5	Q	Q	Q	Q	Q
MW6	Q	Q	Q	Q	Q
MW7	Q	Q	Q	Q	Q

Q = Quarterly.

BTEX = Benzene, toluene, ethylbenzene, total xylenes.

TPH-g = Total Petroleum Hydrocarbons as gasoline.

TPH-d = Total Petroleum Hydrocarbons as diesel.

MTBE = Methyl tertiary butyl ether.

**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**





Engineering, Inc.

### GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 7-0210

Well No: MWS

Date: 2/06/06

Project No: UP0210.1

Personnel: R. Clark

#### 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)
		24.32	11.73	12.59	1 0.04	2 0.16	4 0.64	6 1.44	2.01

#### PURGING DATA

Purge Method: WATERRA / SUB / BAILER

Time	1321	1322	1324			
Volume Purge (gal)	2.5	5.0	7.5			
Temperature (C)	20.8	20.9	21.0			
pH	7.00	6.94	6.96			
Spec. Cond. (umhos)	1225	1216	1207			
Turbidity/Color	CLEAR/NONE	CLEAR/NONE	CLEAR/NONE			
Odor (Y/N)	N	N	N			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

#### SAMPLING DATA

Time Sampled: 1330

Approximate Depth to Water During Sampling: 12 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MWS	6	Voa	HCL	40 ml	/	TPH-g, BTEX, MTBE
MWS	2	Amber	HCL	1 L	/	TPH-d
					/	

Total Purge Volume: 7.5 (gallons)

Disposal:

ROMIC

Weather Conditions:

OK

BOLTS  / N

Condition of Well Box and Casing at Time of Sampling: 1 Broken Case

LOCK & CAP  / N

Well Head Conditions Requiring Correction: N

GROUT  / N

Problems Encountered During Purging and Sampling: N

WELL BOX  / N

Comments:

WSECURED  / N



Engineering, Inc.

**GROUNDWATER PURGE AND SAMPLE**

Project Name: Exxon 7-0210 Well No: MW6 Date: 2/10/00  
 Project No: UP0210.1 Personnel: Rick E.

**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		
	24.77	11.75	13.02	0.04	0.16	0.64	1.44	2.08	6.24

**PURGING DATA**

Purge Method: WATERRA / SUB / BAILER

Time	1302	1303	1304			
Volume Purge (gal)	2.5	5.0	7.5			
Temperature (C)	20.2	20.2	20.5			
pH	7.00	7.00	7.01			
Spec. Cond. (umhos)	1212	1220	1213			
Turbidity/Color	CLEAR/NONE	CLEAR/NONE	CLEAR/NONE			
Odor (Y/N)	N	N	N			
Dewatered (Y/N)	N	N	N			

Comments/Observations:

**SAMPLING DATA**

Time Sampled: 1310 Approximate Depth to Water During Sampling: 12 (feet)

Comments:

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW6	6	Voa	HCL	40 ml		TPH-g, BTEX, MTBE
MW6	2	Amber	HCL	1 L		TPH-d

Total Purge Volume: 7.5 (gallons) Disposal: ROMIC

Weather Conditions: OK BOLTS (Y) / N

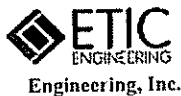
Condition of Well Box and Casing at Time of Sampling: WELL BOX BELOW GRANT LOCK & CAP (Y) / N

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

Problems Encountered During Purging and Sampling: N WELL BOX (Y) / N

WSECURED (Y) / N

Comments:



Engineering, Inc.

### GROUNDWATER PURGE AND SAMPLE

Project Name: Exxon 7-0210	Well No: MW7	Date: 2/06/06
Project No: UP0210.1	Personnel: Rick R.	

GAUGING DATA						
Water Level Measuring Method: <u>WLM</u> / IP				Measuring Point Description: TOC		
WELL PURGE VOLUME CALCULATION	Total Depth (feet)	Depth to Water (feet)	Water Column (feet)	Multiplier for Casing Diameter		Casing Volume (gal)
	23.73	10.65	13.08	X 1 0.04	2 0.16	2.09
				4 0.64	6 1.44	6.27

PURGING DATA						
Purge Method: <u>WATERRA</u> / SUB / BAILER						
Time	1245	1246	1247			
Volume Purge (gal)	2.5	5.0	7.5			
Temperature (C)	20.0	20.5	20.6			
pH	6.79	6.89	6.90			
Spec. Cond. (umhos)	1315	1296	1294			
Turbidity/Color	clear / <del>BRN</del>	clear / <del>BRN</del>	clear / <del>BRN</del>			
Odor (Y/N)	N	N	N			
Dewatered (Y/N)	N	N	N			
Comments/Observations:						

SAMPLING DATA	
Time Sampled: 1250	Approximate Depth to Water During Sampling: 11 (feet)
Comments:	

Sample Number	Number of Containers	Container Type	Preservative	Volume Filled (mL or L)	Turbidity/ Color	Analysis Method
MW7	6	Voa	HCL	40 ml	/	TPH-g, BTEX, MTBE
MW7	2	Amber	HCL	1 L	/	TPH-d
					/	

Total Purge Volume: 7.5 (gallons)	Disposal: ROMIC
Weather Conditions: OK	BOLTS <input checked="" type="radio"/> / N
Condition of Well Box and Casing at Time of Sampling: OK	LOCK & CAP <input checked="" type="radio"/> / N
Well Head Conditions Requiring Correction: N	GROUT <input checked="" type="radio"/> / N
Problems Encountered During Purging and Sampling: N	WELL BOX <input checked="" type="radio"/> / N
Comments:	WSECURED <input checked="" type="radio"/> / N



## **Appendix C**

### **Laboratory Analytical Reports**



28 February, 2006

Ted Moise  
ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill, CA 94523

RE: Exxon 7-0210  
Work Order: MPB0323

Enclosed are the results of analyses for samples received by the laboratory on 02/07/06 19:20. The samples arrived at a temperature of 4° C. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Leticia Reyes  
Project Manager

CA ELAP Certificate #1210

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPB0323  
**Reported:**  
02/28/06 20:36

**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW5	MPB0323-01	Water	02/06/06 13:30	02/07/06 19:20
MW6	MPB0323-02	Water	02/06/06 13:10	02/07/06 19:20
MW7	MPB0323-03	Water	02/06/06 12:50	02/07/06 19:20

ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPB0323  
 Reported:  
 02/28/06 20:36

**Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW5 (MPB0323-01) Water</b> Sampled: 02/06/06 13:30 Received: 02/07/06 19:20									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6B18007	02/18/06	02/19/06	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate. a,a,a-Trifluorotoluene</i>		101 %	80-120		"	"	"	"	
<i>Surrogate. 4-Bromofluorobenzene</i>		103 %	80-120		"	"	"	"	
<b>MW6 (MPB0323-02) Water</b> Sampled: 02/06/06 13:10 Received: 02/07/06 19:20									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6B18007	02/18/06	02/19/06	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate. a,a,a-Trifluorotoluene</i>		104 %	80-120		"	"	"	"	
<i>Surrogate. 4-Bromofluorobenzene</i>		96 %	80-120		"	"	"	"	
<b>MW7 (MPB0323-03) Water</b> Sampled: 02/06/06 12:50 Received: 02/07/06 19:20									
Gasoline Range Organics (C4-C12)	ND	50	ug/l	1	6B18007	02/18/06	02/19/06	EPA 8015B/8021B	
Benzene	ND	0.50	"	"	"	"	"	"	
Toluene	ND	0.50	"	"	"	"	"	"	
Ethylbenzene	ND	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.50	"	"	"	"	"	"	
<i>Surrogate. a,a,a-Trifluorotoluene</i>		104 %	80-120		"	"	"	"	
<i>Surrogate. 4-Bromofluorobenzene</i>		96 %	80-120		"	"	"	"	

ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPB0323  
 Reported:  
 02/28/06 20:36

**Volatile Organic Compounds by EPA Method 8260B**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW5 (MPB0323-01) Water</b> <b>Sampled: 02/06/06 13:30</b> <b>Received: 02/07/06 19:20</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6B16005	02/16/06	02/16/06	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>1.1</b>	<b>0.50</b>	"	"	"	"	"	"	
<i>Surrogate 1,2-Dichloroethane-d4</i>		<i>105 %</i>		<i>60-135</i>	"	"	"	"	
<b>MW6 (MPB0323-02) Water</b> <b>Sampled: 02/06/06 13:10</b> <b>Received: 02/07/06 19:20</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6B16005	02/16/06	02/16/06	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>2.7</b>	<b>0.50</b>	"	"	"	"	"	"	
<i>Surrogate 1,2-Dichloroethane-d4</i>		<i>107 %</i>		<i>60-135</i>	"	"	"	"	
<b>MW7 (MPB0323-03) Water</b> <b>Sampled: 02/06/06 12:50</b> <b>Received: 02/07/06 19:20</b>									
tert-Amyl methyl ether	ND	0.50	ug/l	1	6B16005	02/16/06	02/16/06	EPA 8260B	
tert-Butyl alcohol	ND	20	"	"	"	"	"	"	
Di-isopropyl ether	ND	0.50	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	0.50	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.50	"	"	"	"	"	"	
Ethyl tert-butyl ether	ND	0.50	"	"	"	"	"	"	
<b>Methyl tert-butyl ether</b>	<b>ND</b>	<b>0.50</b>	"	"	"	"	"	"	
<i>Surrogate 1,2-Dichloroethane-d4</i>		<i>109 %</i>		<i>60-135</i>	"	"	"	"	

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
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Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPB0323  
Reported:  
02/28/06 20:36

**Extractable Petroleum Hydrocarbons  
TestAmerica Analytical - Nashville**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW5 (MPB0323-01) Water</b> <b>Sampled: 02/06/06 13:30</b> <b>Received: 02/07/06 19:20</b>									
Diesel	ND	50.0	ug/L	1	6021757	02/09/06	02/12/06	SW846 8015B	QSG
Surrogate o-Terphenyl		85 %	55-150		"	"	"	"	
<b>MW6 (MPB0323-02) Water</b> <b>Sampled: 02/06/06 13:10</b> <b>Received: 02/07/06 19:20</b>									
Diesel	ND	50.0	ug/L	1	6021757	02/09/06	02/12/06	SW846 8015B	QSG
Surrogate o-Terphenyl		75 %	55-150		"	"	"	"	
<b>MW7 (MPB0323-03) Water</b> <b>Sampled: 02/06/06 12:50</b> <b>Received: 02/07/06 19:20</b>									
Diesel	ND	50.0	ug/L	1	6021757	02/09/06	02/12/06	SW846 8015B	QSG
Surrogate o-Terphenyl		76 %	55-150		"	"	"	"	

ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPB0323  
 Reported:  
 02/28/06 20:36

**Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6B18007 - EPA 5030B [P/T]**
**Blank (6B18007-BLK1)**

Prepared &amp; Analyzed: 02/18/06

Gasoline Range Organics (C4-C12)	ND	25	ug/l							
Benzene	ND	0.25	"							
Toluene	ND	0.25	"							
Ethylbenzene	ND	0.25	"							
Xylenes (total)	ND	0.25	"							
<i>Surrogate a,a,a-Trifluorotoluene</i>	80.7		"	80.0		101	80-120			
<i>Surrogate 4-Bromofluorobenzene</i>	75.9		"	80.0		95	80-120			

**LCS (6B18007-BS1)**

Prepared &amp; Analyzed: 02/18/06

Gasoline Range Organics (C4-C12)	216	50	ug/l	275		79	55-130			
<i>Surrogate 4-Bromofluorobenzene</i>	78.8		"	80.0		98	80-120			

**LCS (6B18007-BS2)**

Prepared &amp; Analyzed: 02/18/06

Benzene	9.19	0.50	ug/l	10.0		92	75-150			
Toluene	9.20	0.50	"	10.0		92	80-115			
Ethylbenzene	9.08	0.50	"	10.0		91	75-115			
Xylenes (total)	27.6	0.50	"	30.0		92	75-115			
<i>Surrogate a,a,a-Trifluorotoluene</i>	79.4		"	80.0		99	80-120			

**Matrix Spike (6B18007-MS1)**

Source: MPB0326-03

Prepared &amp; Analyzed: 02/18/06

Gasoline Range Organics (C4-C12)	180	50	ug/l	275	ND	65	55-130			
Benzene	3.24	0.50	"	4.10	ND	79	75-150			
Toluene	16.9	0.50	"	20.7	ND	82	80-115			
Ethylbenzene	3.36	0.50	"	4.85	ND	69	75-115			QM02
Xylenes (total)	19.3	0.50	"	23.8	ND	81	75-115			
<i>Surrogate a,a,a-Trifluorotoluene</i>	75.8		"	80.0		95	80-120			
<i>Surrogate 4-Bromofluorobenzene</i>	78.5		"	80.0		98	80-120			

ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPB0323  
 Reported:  
 02/28/06 20:36

**Purgeable Hydrocarbons and BTEX by EPA 8015B/8021B - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6B18007 - EPA 5030B [P/T]**
**Matrix Spike Dup (6B18007-MSD1)**
**Source: MPB0326-03**
**Prepared & Analyzed: 02/18/06**

Gasoline Range Organics (C4-C12)	181	50	ug/l	275	ND	66	55-130	0.6	35	
Benzene	3.35	0.50	"	4.10	ND	82	75-150	3	25	
Toluene	17.4	0.50	"	20.7	ND	84	80-115	3	25	
Ethylbenzene	3.46	0.50	"	4.85	ND	71	75-115	3	25	QM02
Xylenes (total)	19.5	0.50	"	23.8	ND	82	75-115	1	25	
Surrogate: a,a-a-Trifluorotoluene	77.5		"	80.0		97	80-120			
Surrogate: 4-Bromofluorobenzene	78.9		"	80.0		99	80-120			



ETIC Engineering Inc - Pleasant Hill (Exxon)  
 2285 Morello Avenue  
 Pleasant Hill CA, 94523

 Project: Exxon 7-0210  
 Project Number: 7-0210  
 Project Manager: Ted Moise

 MPB0323  
 Reported:  
 02/28/06 20:36

**Volatile Organic Compounds by EPA Method 8260B - Quality Control**  
**Sequoia Analytical - Morgan Hill**

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6B16005 - EPA 5030B P/T**
**Blank (6B16005-BLK1)**

Prepared &amp; Analyzed: 02/16/06

tert-Amyl methyl ether	ND	0.25	ug/l							
tert-Butyl alcohol	ND	10	"							
Di-isopropyl ether	ND	0.25	"							
1,2-Dibromoethane (EDB)	ND	0.25	"							
1,2-Dichloroethane	ND	0.25	"							
Ethyl tert-butyl ether	ND	0.25	"							
Methyl tert-butyl ether	ND	0.25	"							

*Surrogate: 1,2-Dichloroethane-d4*

4.90

"

5.00

98

60-135

**LCS (6B16005-BS1)**

Prepared &amp; Analyzed: 02/16/06

tert-Amyl methyl ether	16.8	0.50	ug/l	16.3	103	80-115
tert-Butyl alcohol	149	20	"	169	88	75-150
Di-isopropyl ether	15.6	0.50	"	16.2	96	75-125
1,2-Dibromoethane (EDB)	16.1	0.50	"	16.6	97	85-120
1,2-Dichloroethane	15.4	0.50	"	15.5	99	85-130
Ethyl tert-butyl ether	16.3	0.50	"	16.4	99	75-130
Methyl tert-butyl ether	7.47	0.50	"	7.84	95	65-125

*Surrogate: 1,2-Dichloroethane-d4*

5.23

"

5.00

105

60-135

**Matrix Spike (6B16005-MS1)**

Source: MPB0313-07

Prepared &amp; Analyzed: 02/16/06

tert-Amyl methyl ether	183	5.0	ug/l	163	2.5	111	80-115
tert-Butyl alcohol	1560	200	"	1690	ND	92	75-120
Di-isopropyl ether	171	5.0	"	162	ND	106	75-125
1,2-Dibromoethane (EDB)	165	5.0	"	166	ND	99	85-120
1,2-Dichloroethane	154	5.0	"	155	ND	99	85-130
Ethyl tert-butyl ether	165	5.0	"	164	ND	101	75-130
Methyl tert-butyl ether	107	5.0	"	78.4	26	103	65-125

*Surrogate: 1,2-Dichloroethane-d4*

5.23

"

5.00

105

60-135

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPB0323  
Reported:  
02/28/06 20:36

**Volatile Organic Compounds by EPA Method 8260B - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 6B16005 - EPA 5030B P/T**

**Matrix Spike Dup (6B16005-MSD1)**

Source: MPB0313-07

Prepared & Analyzed: 02/16/06

tert-Amyl methyl ether	177	5.0	ug/l	163	2.5	107	80-115	3	15	
tert-Butyl alcohol	1590	200	"	1690	ND	94	75-120	2	25	
Di-isopropyl ether	164	5.0	"	162	ND	101	75-125	4	15	
1,2-Dibromoethane (EDB)	162	5.0	"	166	ND	98	85-120	2	15	
1,2-Dichloroethane	146	5.0	"	155	ND	94	85-130	5	20	
Ethyl tert-butyl ether	157	5.0	"	164	ND	96	75-130	5	25	
Methyl tert-butyl ether	105	5.0	"	78.4	26	101	65-125	2	20	
<i>Surrogate. 1,2-Dichloroethane-d4</i>	<i>4.30</i>		<i>"</i>	<i>5.00</i>		<i>86</i>	<i>60-135</i>			

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523

Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted Moise

MPB0323  
Reported:  
02/28/06 20:36

**Extractable Petroleum Hydrocarbons - Quality Control  
TestAmerica Analytical - Nashville**

Analyte	Result	Evaluation Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch 6021757 - EPA 3510C**

**Blank (6021757-BLK1)**

Prepared: 02/09/06 Analyzed: 02/12/06

Diesel	ND	33.0	ug/L							
Surrogate: <i>o</i> -Terphenyl	17.4		"	20.0		87	55-150			
<b>LCS (6021757-BS1)</b>										
Prepared: 02/09/06 Analyzed: 02/12/06										
Diesel	589	50.0	ug/L	1000		59	49-118			MNR1
Surrogate: <i>o</i> -Terphenyl	13.5		"	20.0		68	55-150			

ETIC Engineering Inc - Pleasant Hill (Exxon)  
2285 Morello Avenue  
Pleasant Hill CA, 94523Project: Exxon 7-0210  
Project Number: 7-0210  
Project Manager: Ted MoiseMPB0323  
Reported:  
02/28/06 20:36

### Notes and Definitions

QSG Silica Gel clean-up performed on extracts.

QM02 The spike recovery was below control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

MNR1 There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike.

DEI Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Consultant Name: ETIC ENGINEERING

TA Account #: 10236

Address: 2285 MORELLO AVE.

Invoice To: JENNIFER SEDLACHEK (XOMTM)

City/State/Zip: PLEASANT HILL, CA. 94523

Report To: TED MOISE

ExxonMobil Territory Mgr: JENNIFER SEDLACHEK

PO #: 4506870680

Consultant Project Mgr: TED MOISE

Project #: UP0210.1

Facility ID #: 7-0210

Consultant Telephone Number: 925-602-4710 EXT. 23

Fax No.: 925-602-4720

Site Address: 7840 AMADOR VALLEY BLVD.

Sampler Name: (Print) Dick RODRIGUEZ

City, State, Zip: DUBLIN, CA.

Sampler Signature: [Signature]

Regulatory District (CA) \_\_\_\_\_

Sample ID / Description	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative							Matrix					Analyze For:					RUSH TAT (Pre-Schedule)	TAT request (in Bus. Days)	STD TAT	Fax Results	
							Ice	HNO <sub>3</sub> (Red Label)	HCl (Blue Label)	NaOH (Orange Label)	H <sub>2</sub> SO <sub>4</sub> Plastic (Yellow Label)	H <sub>2</sub> SO <sub>4</sub> Glass (Yellow Label)	None (Black Label)	Other (Specify)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	TPH-G/B/TEX BY 8015/8020	7 OXYS BY 8250B	TPH-D BY 8015					[Redacted]
MW5	01	706	1350	8 (5)	IL Rmnd VOCs HCl		X	X								X	X	X									X	X
MW6	02	↓	1310	↓			X	X								X	X	X									X	X
MW7	03	↓	1250	↓			X	X								X	X	X									X	X

Special Instructions: GLOBAL ID# T0600100553 EDF FILE REQUIRED

Laboratory Comments:  
 Temperature Upon Receipt: 3.8° C  
 Sample Containers Intact? (X) N  
 VOCs Free of Headspace? (Y) N  
 QC Deliverables (please circle one)  
 Level 2  
 Level 3  
 Level 4  
 Site Specific - if yes, please a pre-schedule w/ TestAmerica Project Manager or attach specific instructions

CONFIRM ALL MTBE HITS BY 8260B

Relinquished by: <u>[Signature]</u>	Date: <u>2/06/06</u>	Time: <u>1400</u>	Received by: <u>[Signature]</u>	Date: <u>2-7</u>	Time: <u>1302</u>
Relinquished by: <u>[Signature]</u>	Date: <u>2-7</u>	Time: <u>1920</u>	Received by TestAmerica: <u>E. Fall</u>	Date: <u>2-7</u>	Time: <u>1920</u>

# SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

CLIENT NAME: ETLC  
 REC. BY (PRINT) E. Fallon  
 WORKORDER: MPB0323

DATE REC'D AT LAB: 2/17/06  
 TIME REC'D AT LAB: 1920  
 DATE LOGGED IN: 2/18/06

For Regulatory Purposes?  
 DRINKING WATER YES/NO  NO  
 WASTE WATER YES/NO  NO

CIRCLE THE APPROPRIATE RESPONSE	LAB SAMPLE #	DASH #	CLIENT ID	CONTAINER DESCRIPTION	PRESERVATIVE	pH	SAMPLE MATRIX	DATE SAMPLED	REMARKS: CONDITION (ETC.)
1. Custody Seal(s) Present / <u>Absent</u> Intact / Broken*									OK 2/17/06 SEE COC
2. Chain-of-Custody Present / Absent*									
3. Traffic Reports or Packing List: Present / <u>Absent</u>									
4. Airbill: Airbill / Sticker Present / <u>Absent</u>									
5. Airbill #:									
6. Sample Labels: <u>Present</u> / Absent									
7. Sample IDs: <u>Listed</u> / Not Listed on Chain-of-Custody									
8. Sample Condition: <u>Intact</u> / Broken* / Leaking*									
9. Does information on chain-of-custody, traffic reports and sample labels agree? <u>Yes</u> / No*									
10. Sample received within hold time? <u>Yes</u> / No*									
11. Adequate sample volume received? <u>Yes</u> / No*									
12. Proper preservatives used? <u>Yes</u> / No*									
13. Trip Blank / Temp Blank Received? (circle which, if yes) <u>Yes</u> / No*									
14. Read Temp: <u>3.8 °C</u> Corrected Temp: <u>3.8 °C</u> Is corrected temp 4 +/-2°C? <u>Yes</u> / No**									

(Acceptance range for samples requiring thermal pres.)  
 \*\*Exception (if any): METALS / DFF ON ICE or Problem COC

\*IF CIRCLED, CONTACT PROJECT MANAGER AND ATTACH RECORD OF RESOLUTION.