

2 June 2000

Mr. Darin L. Rouse ExxonMobil Refining and Supply Company 2300 Clayton Road, Suite 1250 Concord, CA 94520

RE: Valero Refining Company Investigation

Exxon RS 7-0210, 7840 Amador Valley Blvd., Dublin, California

Dear Mr. Rouse:

On behalf of ExxonMobil Refining and Supply Company (formerly Exxon Company, U.S.A.), ETIC Engineering (ETIC) observed the Valero Refining Company subsurface investigation at the above-referenced site performed by Environ on 20 April 2000. ETIC was present to ensure that Environ and its subcontractors complied with all ExxonMobil protocols, and to collect split groundwater samples.

Groundwater samples were collected from two borings located as shown on the site map (Figure 1). Precision Sampling of Richmond, California, advanced the borings using direct-push methods. The surface asphalt was cored to a 10-inch opening, and the underlying soil was probed and hand dug as an 8-inch-diameter hole to 4 feet below ground surface (bgs) at both boring locations.

Borings 70210-1 and 70210-2 were advanced to 30 feet bgs. Temporary well casings of 3/4-inch diameter PVC were set in each boring, with screened intervals from 15 to 30 feet bgs. Depth to water was measured prior to water sampling at about 10 feet bgs in boring 70210-1 and 11.2 feet bgs in boring 70210-2. Groundwater samples 70210-1, 10 and 70210-2, 11 were collected using a 1/2-inch stainless steel bailer. All sampling equipment was steam-cleaned between borings. Environ samples were collected before ETIC samples.

The groundwater samples collected by ETIC were shipped via Federal Express under chain of custody in an ice-filled cooler to Southern Petroleum Laboratories in Houston, Texas. The samples were analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g) by modified EPA Method 8015 and for benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tert-butyl ether (MTBE) by EPA Method 8021B. If MTBE was detected by EPA Method 8021B, the sample was also analyzed for MTBE by EPA Method 8260B. Groundwater analytical results are summarized in Table 1. The laboratory analytical report and the chain-of-custody form are included in Attachment A.

Both borings were sealed with neat cement grout using tremie pipe to fill each boring up from the base and topped with blackened concrete. Soil cuttings were stored onsite in five labeled 5-gallon lidded pails. Rinsate water was stored onsite in two labeled 5-gallon lidded pails.

Mr. Darin L. Rouse ExxonMobil Refining and Supply Company

If you have any questions or need additional information regarding this project, please do not hesitate to contact us at (925) 977-7914.

Sincerely,

Christa . Marting

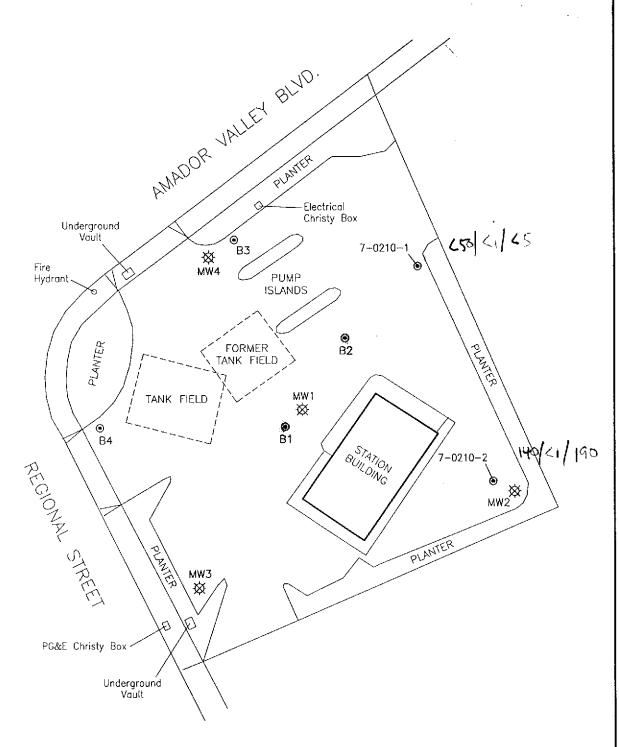
Program Manager

Enclosures:

Figure 1: Site map showing boring locations

Table 1: Groundwater analytical results

Attachment A: Laboratory report and chain-of-custody form



<u>LEGEND</u>

- SOIL BORING / GROUNDWATER SAMPLING LOCATION
- ABANDONED GROUNDWATER MONITORING WELL

NOTE:

B1-B4 INSTALLED AND SAMPLED 12/98. 7-0210-1 AND 7-0210-2 INSTALLED AND SAMPLED 4/20/00

776 TPHg/benzene MUSE

MAP ADAPTED FROM EA ENGINEERING, SCIENCE, AND TECHNOLOGY DRAWING.



FIGURE:

Scale (feet)

40

06/05/00

TABLE 1 GROUNDWATER ANALYTICAL RESULTS, EXXON RS 7-0210,
7840 AMADOR VALLEY BOULEVARD, DUBLIN, CALIFORNIA, APRIL 2000

			Concentration (µg/L)								
Sample Designation	Date	Depth (feet)	Benzene	Toluene	Ethyl- benzene	Total Xylenes	TPH-g	MTBE			
70210-1, 10	04/20/00	10	<1	<1	<1	<1	<50	1 <5*			
70210-2, 11	04/20/00	11	<1	<1	<1	7.2	140	200 <b>190*</b>			

TPH-g	Total Petroleum Hydrocarbons as gasoline.
MTBE	Methyl-t-butyl ether.
μg/L	Micrograms per liter.
*	Confirmatory result; analysis by EPA Method 8260B.

## ATTACHMENT A LABORATORY REPORT AND CHAIN-OF-CUSTODY FORM



## Case Narrative for: EXXON Company U.S.A.



#### Certificate of Analysis Number:

#### 00040618

Report To:

ETIC Engineering Inc. Chris Chatburn

144 Mayhew Way

Walnut Creek

California 94596-

ph: (925) 977-7914

fax: (925) 977-7915

Project Name:

Site:

EXXON94525 7-0210,20003669

Site Address:

PO Number:

EWR#

State:

California

State Cert. No.:

Date Reported:

Any data flags or quality control exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Sima Will West, Sonia

5/3/00

Date



#### **EXXON Company U.S.A.**

#### Certificate of Analysis Number:

#### 00040618

Report To: ETIC Engineering Inc.

Chris Chatburn

144 Mayhew Way

Walnut Creek

California 94596-

ph: (925) 977-7914

Fax To: ETIC Engineering Inc.

Chris Chalbum

fax: (925) 977-7915

fax: (925) 977-7915

**Project Name:** 

EXXON94525

Site:

7-0210,20003669

Site Address:

PO Number:

EWR#

State:

California

State Cert. No.:

Date Reported:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
70210-1.10	00040618-01	Water	4/20/00 4:25:00 PM	4/22/00 10:00:00 AM		
70210-2,11	00040618-02	Water	4/20/00 5:20:00 PM	4/22/00 10:00:00 AM		

Soma West

5/3/00

Date

West, Sonia Senior Project Manager

> Joel Grice Laboratory Director

Ted Yen Quality Assurance Officer



1

1

Collected: 4/20/00 4:25:00



Client Sample ID 70210-1,10

m,p-Xylene

Xylenes, Total

o-Xylene

HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 (713) 660-0901

SPL Sample ID:

04/25/00 12:32 D R

04/25/00 12:32 D\_R

04/25/00 12:32 D\_R

04/25/00 12:32 D\_R

00040618-01

258681

258681

258681

258681

			Site	: 7-0	210,20003669		
Analyses/Method	Result	_	Rep.Limit		Dil. Factor QUAL	Date Analyzed Analys	Seq.#
GASOLINE RANGE ORGANICS		-:		MCL CA_GRO		Units: ug/L	
Gasoline Range Organics	ND		50		1	04/25/00 12:32 LJ	258691
Surr: 1,4-Difluorobenzene	98.4	%	62-144		1	04/25/00 12:32 LJ	258691
Surr: 4-Bromofluorobenzene	97.8	%	44-153		1	04/25/00 12:32 LJ	258691
PURGEABLE AROMATICS				MCL	SW8021B	Units: ug/L	
Benzene	ND		1		1	04/25/00 12:32 D_R	258681
Ethylbenzene	ND		1		1	04/25/00 12:32 D_R	258681
Methyl tert-butyl ether	1	•	1		1	04/25/00 12:32 D_R	258681
Toluene	ND		1		1	04/25/00 12:32 D_R	258681

1

1

1

ND

ND

ND

Surr: 1,4-Difluorobenzene	100	%	72-137		1	04/25/00 12:32 D_R	258681
Surr: 4-Bromofluorobenzene	102	%	48-156		1	04/25/00 12:32 D_R	258681
VOLATILE ORGANICS METHOD	OLATILE ORGANICS METHOD 8260B					Units: ug/L	
Methyl tert-butyl ether	ND		5		1	04/28/00 6:13 JC	262915
Surr: 1,2-Dichloroethane-d4	100	%	80-120		1	04/28/00 6:13 JC	262915
Surr: 4-Bromofluorobenzene	108	%	86-115		1	04/28/00 6:13 JC	262915
Surr: Toluene-d8	102	%	88-110		1	04/28/00 6:13 JC	262915

Tonia West

West, Sonia Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

00040618 Page 2 5/3/00 8:29:43 AM





Surr: 4-Bromofluorobenzene

Surr: Toluene-d8

HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TEXAS 77054 (713) 660-0901

262916

262916

JC

JC

04/28/00 6:38

04/28/00 6:38

Client Sample ID 70210-2,11			C	Collected:	4/20/00 5:20:00	SPL Sample ID	: 0004	0618-02
			S	ite: 7-0	210,20003669			
Analyses/Method	Result		Rep.Limit	1	Dil. Factor QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				MCL	CA_GRO	Units: ug	/L	
Gasoline Range Organics	140		50		1	04/25/00 12:58	LJ	258692
Surr: 1,4-Difluorobenzene	93.6	%	62-144		1	04/25/00 12:58	ĹĴ	258692
Surr: 4-Bromofluorobenzene	95.2	%	44-153		1	04/25/00 12:58	LJ	258692
JRGEABLE AROMATICS			MCL	SW8021B Units: ug/L				
Benzene	ND		1		1	04/25/00 12:58	D_R	258682
Ethylbenzene	ND		1		1	04/25/00 12:58	D_R	258682
Methyl tert-butyl ether	200		1		1	04/25/00 12:58	D_R	258682
Toluene	ND	-	1		1	04/25/00 12:58	D_R	258682
m,p-Xylene	ND		1		1	04/25/00 12:58	D_R	258682
o-Xylene	7.2	•	1		1	04/25/00 12:58	D_R	258682
Xylenes,Total	7.2		1		1	04/25/00 12:58	D_R	258682
Surr: 1,4-Difluorobenzene	98.4	%	72-137		1	04/25/00 12:58	D_R	258682
Surr: 4-Bromofluorobenzene	100	%	48-156		1	04/25/00 12:58	D_R	25868
VOLATILE ORGANICS METHOD	8260B			MCL	. SW8260B	Units: ug	/L	
Methyl tert-butyl ether	190		10		2	04/28/00 6:38	JC	26291
Surr: 1,2-Dichloroethane-d4	110	%	80-120		2	04/28/00 6:38	JC	26291

Jones West

West, Sonia Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

100

100

%

%

86-115

88-110

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

# Quality Control Documentation



#### **Quality Control Report**

## EXXON Company U.S.A. EXXON94525

Analysis:

RunID:

Analysis Date:

**Purgeable Aromatics** 

Method:

SW8021B

WorkOrder:

Samples in Analytical Batch:

Lab Batch ID:

00040618 R12842

Method Blank

HP\_N\_000424A-257717 04/24/2000 10:53 Units:

Analyst:

ug/L D\_R Lab Sample ID

Client Sample ID

00040618-01A

70210-1,10

00040618-02A

70210-2,11

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1,0
Xylenes, Total	ND	1,0
Surr: 1,4-Difluorobenzene	103.2	72-137
Surr: 4-Bromofluorobenzene	105.2	48-156

#### Laboratory Control Sample (LCS)

RunID:

HP N 000424A-257716

Units:

ug/L

Analysis Date:

04/24/2000 10:27

Analyst: D\_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	52	103	61	119
Ethylbenzene	50	51	102	70	118
Methyl tert-butyl ether	50	55	111	72	128
Toluene	50	51	102	65	125
m,p-Xylene	100	100	100	72	116
o-Xylene	50	49	99	72	117
Xylenes,Total	150	149	99	72	117

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

00040544-03

Run!D:

HP\_N\_000424A-257811

Units:

ug/L

Analysis Date:

04/24/2000 17:21

Analyst: D\_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	17	83.9	20	18	89.8	6.77	21	32	164
Ethylbenzene	ND	20	16	81.3	20	17	87.5	7.27	19	52	142
Methyl tert-butyl ether	4.1	20	25	102	20	26	109	6.59	20	39	150
Toluene	ND	20	17	83.8	20	18	89.2	6.20	20	38	159

Qualifiers:

ND/U - Not Detected at the Reporting Limit

\* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL



#### **Quality Control Report**

#### **EXXON Company U.S.A.** EXXQN94525

Analysis: Method:

**Purgeable Aromatics** 

SW8021B

WorkOrder:

00040618

Lab Batch ID:

R12842

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

00040544-03

RunID:

HP\_N\_000424A-257811

Units:

ug/L

Analysis Date:

04/24/2000 17:21

Analyst: D\_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD		Low Limit	High Limit
m,p-Xylene	ND	40	33	82.0	40	35	88.1	7.15	17	53	144
o-Xylene	ND	20	16	82.0	20	18	87.6	6.56	18	53	143
Xylenes, Total	ND	60	49	81.7	60	53	88.3	7.84	18	53	144



#### **Quality Control Report**

#### **EXXON Company U.S.A.** EXXON94525

Analysis:

Analysis Date:

Gasoline Range Organics

Method:

RunID:

CA\_GRO

04/25/2000 10:48

WorkOrder:

00040618

Lab Batch ID: -

R12905

Method Blank

HP\_N\_000425A-258687

mg/L Units:

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analyst: LJ

00040618-01A

70210-1,10

00040618-02A

70210-2,11

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0,050
Surr. 1,4-Difluorobenzene	100.5	62-144
Surr: 4-Bromofluorobenzene	99.2	44-153

#### Laboratory Control Sample (LCS)

RunID:

HP\_N\_000425A-258688

Units: mg/L

Analysis Date:

04/25/2000 11:14

Analyst: LJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit	
Gasoline Range Organics	1	0.76	76	64	131	İ

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

00040618-01

RunID:

HP\_N\_000425A-259384

Units:

mg/L

Analysis Date:

04/25/2000 16:02

Analyst: LJ

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit		High Limit
Gasoline Range Organics	ND	0.9	0.66	73.7	0.9	0.65	72.5	1.61	36	36	160

D - Recovery Unreportable due to Dilution

00040618 Page 6



#### **Quality Control Report**

## EXXON Company U.S.A. EXXON94525

Analysis: Method: Volatile Organics Method 8260B

SW8260B

WorkOrder:

00040618

Lab Batch ID:

R13095

Method Blank

RunID: Analysis Date: N\_000428B-262131 04/28/2000 5:47 Units:

Analyst:

ug/L JC Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

00040618-01C

70210-1,10

00040618-02C

70210-2,11

Analyte	Result	Rep Limit
Methyl tert-butyl ether	ND	5.0
Surr: 1,2-Dichloroethane-d4	100.0	80-120
Surr: 4-Bromofluorobenzene	104.0	86-115
Surr: Toluene-d8	102.0	88-110

#### Laboratory Control Sample (LCS)

RunID:

N 000428B-262130

Units: ug/L

Analysis Date:

04/28/2000 4:57

Analyst: JC

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
1,1-Dichloroethene	50	45	90	61	145
Benzene	50	48	96	76	127
Chlorobenzene	50	48	96	75	130
Toluene	50	47	94	76	125
Trichloroethene	50	50	100	71	120

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

00040591-13

RunID:

N\_000428B-262142

Units:

ug/L

Analysis Date:

04/28/2000 10:25

Analyst: JC

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
1,1-Dichloroethene	ND	50	44	88	50	42	84	5	14	61	145
Benzene	ND	50	48	96	50	48	96	0	11	76	127
Chlorobenzene	ND	50	49	98	50	49	98	0	13	75	130
Toluene	ND	50	48	96	50	47	94	2	13	76	125
Trichloroethene	ND	50	51	102	50	49	98	4	14	71	120

Qualifiers:

ND/U - Not Detected at the Reporting Limit

\* - Recovery Outside Advisable QC Limits

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

# Chain of Custody And Sample Receipt Checklist

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#### Sample Receipt Checklist

Workorder:	00040618		Received by:		Barrera, Nancy
Date and Time Received:	4/22/00 10:00:00 AM		Carrier name:		FedEx
Temperature:	3			·-	
Shipping container/cooler in	good condition?	Yes 🔽	No 🗌	Not Present	
Custody seals intact on shipp	oping container/cooler?	Yes 🗌	No 🗌	Not Present	$\checkmark$
Custody seals intact on sam	ple bottles?	Yes 🗌	No 🗌	Not Present	
Chain of custody present?		Yes 🗹	No 🗌		
Chain of custody signed whe	en relinquished and received?	Yes 🗹	No 🗌		
Chain of custody agrees with	sample labels?	Yes 🗹	No 🗀		
Samples in proper container	/bottle?	Yes 🔽	No 🗀		
Sample containers intact?		Yes 🗹	No 🗀		
Sufficient sample volume for	indicated test?	Yes 🔽	No 🗀		
All samples received within h	nolding time?	Yes 🗹	No 🗀		
Container/Temp Blank temp	erature in compliance?	Yes 🔽	No 🗀		
Water - VOA vials have zero headspace?		Yes 🔽	No 🗔	Not Present	: 1
Water - pH acceptable upon	Yes 🗹	No [ ]			