

**ExxonMobil
Refining and Supply Company**

2300 Clayton Road, Suite 1250
P.O. Box 4032
Concord, CA 94524-4032
(925) 246-8747 Telephone
(925) 246-8798 Facsimile
gene.n.ortega@exxon.com

Gene N. Ortega
Senior Engineer
Environmental Remediation

ExxonMobil
Refining & Supply

May 1, 2001

MAY 1 0 2001

Mr. Scott Seery
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, CA 94501-6577

Subject: Former Exxon RAS #7-3399, 2991 Hopyard Road, Pleasanton, California

Dear Mr. Seery:

Attached for your review and comment is a copy of the *Well Replacement Report* dated April 2001 for the above-referenced site. The report was prepared by ETIC Engineering, Inc. of Pleasant Hill, California, and documents the destruction of groundwater monitoring well MW9 and its replacement with well MW9A. 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 (925) 246-8747.

Sincerely,



Gene N. Ortega
Territory Manager

Attachment: ETIC Well Replacement Report dated April 2001

- c: w/attachment:
Mr. Chuck Headlee – Regional Water Quality Control Board, San Francisco Bay Region
Mr. Matthew Katen – Zone 7 Water Agency
Mr. Stephen Cusenza – City of Pleasanton Public Works Department
Mr. Thomas Elson – Luhdorff and Scalmanini Consulting Engineers
Mr. Winson B. Low – Valero Energy Corporation
- c: w/o attachment:
Ms. Christa Marting - ETIC Engineering, Inc.



MAY 10 2001

Well Replacement Report

**Former Exxon Retail Site 7-3399
2991 Hopyard Road
Pleasanton, California**

Prepared for

ExxonMobil Refining and Supply Company
P.O. Box 4032
2300 Clayton Road, Suite 1250
Concord, California 94524-4032

Prepared by

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

[Handwritten signature]

4/30/01

Joseph T. Muehleck
Project Manager

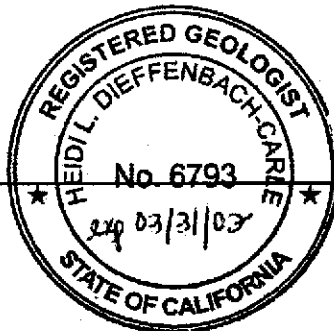
Date

Heidi Dieffenbach-Carle

Heidi Dieffenbach-Carle, R.G. #6793
Senior Geologist

April 24, 2001

Date



April 2001

CONTENTS

	<u>Page</u>
LIST OF FIGURES AND TABLES	
SITE CONTACTS	
1. INTRODUCTION	1
2. SITE BACKGROUND	2
2.1 SITE LOCATION AND LAND USE	2
2.2 SITE HISTORY AND STATUS	2
3. SUBSURFACE INVESTIGATION	3
3.1 DRILLING OF SOIL BORING	3
3.2 SOIL SAMPLING	3
3.3 WELL INSTALLATION	3
3.4 WELL DEVELOPMENT	4
3.5 GROUNDWATER SAMPLING	4
3.6 SURVEYING OF GROUNDWATER MONITORING WELL	4
3.7 WELL DESTRUCTION	4
3.8 WASTE CONTAINMENT AND DISPOSAL	4
4. RESULTS	5
4.1 SITE GEOLOGY AND HYDROGEOLOGY	5
4.2 SOIL ANALYTICAL METHODS AND RESULTS	5
4.3 GROUNDWATER ANALYTICAL METHODS AND RESULTS	5
5. SUMMARY	6
REFERENCES	7
FIGURES	
TABLES	
APPENDIX A:	Correspondence from the Alameda County Health Agency
APPENDIX B:	Permits
APPENDIX C:	Protocols for Borehole and Well Drilling, Completion, Development, and Sampling
APPENDIX D:	Boring Log and Well Completion Diagram
APPENDIX E:	Well Development Form
APPENDIX F:	Laboratory Analytical Reports
APPENDIX G:	Non-hazardous Waste Manifests

LIST OF FIGURES AND TABLES

Former Exxon RS 7-3399

<u>Number</u>	<u>Description</u>
Figures	
1	Site plan.
2	Site plan showing groundwater elevations and analytical results, 28 December 2000.
Tables	
1	Well construction details.
2	Soil analytical data.

SITE CONTACTS

Site Name: Former Exxon Retail Site 7-3399

Site Address: 2991 Hopyard Road
Pleasanton, California

ExxonMobil Project Manager: Gene N. Ortega
ExxonMobil Refining and Supply Company
P.O. Box 4032
2300 Clayton Road, Suite 1250
Concord, California 94524-4032
(925) 246-8747

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

ETIC Project Manager: Joseph T. Muehleck

Regulatory Oversight: Scott Seery
Alameda County Health Agency
1131 Harbor Bay Parkway
Alameda, California 94501-6577
(510) 567-6783

Chuck Headlee
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612
(510) 622-2300

Matthew Katen
Zone 7 Water Agency
5997 Parkside Drive
Pleasanton, California 94588
(925) 484-2600

Stephen Cusenza
City of Pleasanton Public Works Department
P.O. Box 520
Pleasanton, California 94588
(925) 931-5507

2. SITE BACKGROUND

2.1 SITE LOCATION AND LAND USE

Former Exxon RS 7-3399 is an active retail service station located at 2991 Hopyard Road, on the southeast corner of the intersection with Valley Avenue in Pleasanton, California. The site has six pump islands and two 10,000-gallon and one 12,000-gallon double-walled fiberglass underground storage tanks (USTs) for dispensing three grades of gasoline. Auto repair is conducted in the onsite station building. The site is relatively flat and at an elevation of approximately 321 feet.

2.2 SITE HISTORY AND STATUS

Former fuel USTs, originally installed in 1971, were removed from the site in 1988. The current fuel USTs have been in place since that time. The station underwent upgrades in 1997, at which time a 1,000-gallon used-oil tank was removed (Delta 1997). Former and current station features are shown in Figure 1. Operation of the site was taken over by Valero Energy Corporation in June 2000.

Environmental assessment and remedial actions have been conducted at the site since 1988 and have included: soil and groundwater monitoring (1988-present), excavation to 31 feet bgs (39 feet bgs in one 8-by-8-foot area) in the area of the former fuel USTs (1988), liquid-phase hydrocarbon (LPH) removal (1988-1990), groundwater extraction (1988-1990), soil vapor extraction (1989-1993 and 1997-1998), and air sparging/bioventing (1997-2000). Investigations and remedial actions from 1988 to 1996 are summarized in a Problem Assessment Report/Remedial Action Plan (PAR/RAP) prepared by Delta Environmental Consultants, Inc. (Delta 1996). Remedial actions from 1996 to 1999 are summarized in the second/third quarter 1999 monitoring report (Delta 1999).

Remedial actions to date have focused on the saturated clayey sand to gravel zone encountered from approximately 35 to 55 feet bgs, where water had been first encountered (referred to as Zone 1), and the silts and clays overlying this zone. Groundwater and soil vapor extraction influent concentrations had approached asymptotic levels before shutdown of the respective systems. With the exception of MW9, hydrocarbon concentrations in groundwater samples collected from wells screened in this zone have generally shown a stable or decreasing trend. Methyl tertiary butyl ether (MTBE) has been detected in several wells in Zone 1 since quarterly MTBE analysis began in 1995. MTBE has been detected at higher concentrations in groundwater samples collected from a perched water table located approximately 10 feet beneath portions of the site.

A new groundwater extraction system was constructed at the site and started in March 2001. ~~Groundwater is currently being extracted from wells VR1 and MW9A.~~ Extracted groundwater is pumped from the extraction wells to the existing treatment compound via underground double-contained pipes. Groundwater is treated by pre-filtration, and by adsorption by granular activated carbon to remove dissolved chemicals to meet discharge limits established under a permit with the Dublin-San Ramon Services District. The system is described in greater detail in a letter to the ACHA dated 13 December 2000 (ETIC 2000b).

Regional and site geology and hydrogeology have most recently been described in the Well Installation Report dated February 2001 (ETIC 2001b).

3. SUBSURFACE INVESTIGATION

ETIC observed the installation of one groundwater monitoring well (MW9A) and the destruction of well MW9 on 3 November 2000. Well MW9A was installed to replace well MW9 because an obstruction and possible breach of casing was observed at approximately 26 feet bgs. This work was performed by Woodward Drilling Company (C-57 License #710079). Permits were obtained from the Zone 7 Water Agency prior to the drilling and well destruction. Copies of the permits are provided in Appendix B.

3.1 DRILLING OF SOIL BORING

Boring MW9A was drilled using a truck-mounted drill rig equipped with 12-inch-diameter hollow-stem augers. Prior to drilling the boring, a 12- to 15-inch-diameter hole, designated as the delineation area, was cleared to a depth of 8 feet bgs using the vacuum method described in Appendix C. This procedure was performed to ensure that there were no obstructions near the potential path of the drill augers. The hollow-stem augers and downhole equipment were cleaned by pressure washing before drilling began and upon completion of the borehole. Equipment rinsate was collected in a trough, pumped into 55-gallon drums, and temporarily stored on the site. Field methods and procedures are described in the protocols, presented in Appendix C.

3.2 SOIL SAMPLING

Soil samples were collected at 5-foot intervals to the total depth of the boring. Soil samples were collected by driving a 2-inch-diameter California-modified split-spoon sampler containing 6-inch brass or stainless steel sleeves ahead of the augers into undisturbed soil. A sleeve from each sample interval was sealed with Teflon tape, capped, labeled, and placed in an ice-packed cooler for delivery to a state-certified laboratory for analysis. The contents of the remaining sleeves were examined for soil characteristics and screened in the field with an organic vapor analyzer (OVA) to determine the relative hydrocarbon content. Soil descriptions and OVA readings are recorded on the soil boring log presented in Appendix D.

All soil cuttings generated during drilling were placed on and covered with plastic sheeting and temporarily stored on the site.

3.3 WELL INSTALLATION

Boring MW9A was completed as a groundwater monitoring well, in accordance with ETIC's protocols (Appendix C) and local regulations. Well construction details are summarized in Table 1 and are shown on the soil boring log and well construction diagram provided in Appendix D.

Well MW9A was constructed with 6-inch-diameter Schedule 40 polyvinyl chloride (PVC) blank well casing and screened with 0.020-inch machine-slotted Schedule 40 PVC casing. A filter pack of #3 sand was placed to approximately 2 feet above the top of the screened interval of the well. The annular space was then sealed with a 2-foot layer of hydrated bentonite pellets, followed by neat cement grout to just below ground surface.

3.4 WELL DEVELOPMENT

Well MW9A was developed on 28 November 2000. The well was surged with a surge block and purged using a PVC pipe lowered into the well and attached to a vacuum apparatus. Approximately 8 casing volumes of water was removed from the well.

Well development procedures are described in Appendix C, and the record of well development is presented in Appendix E.

3.5 GROUNDWATER SAMPLING

Groundwater samples were collected from MW9A along with the other onsite and offsite wells on 28 December 2000 in conjunction with quarterly groundwater monitoring.

Groundwater samples were collected with clean disposable bailers. The samples were labeled with the time, date, location, and sample identification number and placed in a cooler with ice for delivery to a state-certified laboratory for analysis. Groundwater sampling procedures are described in Appendix C.

3.6 SURVEYING OF GROUNDWATER MONITORING WELL

The top-of-casing elevation of well MW9A was surveyed by a licensed surveyor on 28 March 2001.

3.7 WELL DESTRUCTION

Well MW9 was destroyed on 3 November 2000. A permit from the Zone 7 Water Agency was obtained prior to well destruction. The well lid and cap were removed and the well was destroyed by grouting the casing with neat cement grout. The grout was pumped into the well under pressure up to the top of the well and the area was resurfaced to match surrounding conditions.

3.8 WASTE CONTAINMENT AND DISPOSAL

Approximately 3 cubic yards of soil was generated during drilling activities. Soil cuttings accumulated during drilling were placed on and covered with plastic sheeting and stored on the site. A four point composite sample was collected from the soil cuttings and submitted to Sequoia Analytical in Morgan Hill, California. The soil was analyzed for Total Petroleum Hydrocarbons as gasoline (TPH-g), benzene, toluene, ethylbenzene, and xylenes (BTEX), total lead, and volatile organic compounds in order to characterize the soil for proper disposal. The laboratory analytical report and chain-of-custody documentation are included in Appendix F. The soil was removed from the site and transported to an ExxonMobil-approved disposal facility in January 2001. A copy of the non-hazardous waste manifest is included in Appendix G.

Equipment rinsate water was placed in five 55-gallon drums. The water was removed from the site and transported to an ExxonMobil-approved treatment facility in February 2001. A copy of the non-hazardous waste manifest is included in Appendix G.

4. RESULTS

4.1 SITE GEOLOGY AND HYDROGEOLOGY

Lithology observed in MW9A is characteristic of that observed in other borings at the site and vicinity. Soils encountered in the boring consisted of sandy silt from the surface to 10.5 feet bgs, clays from 10.5 to approximately 36 feet bgs, sands and gravels from approximately 36 to 57 feet bgs, and clay from approximately 57 to 59 feet bgs (the total sampled depth of the boring).

The static water level in well MW9A, measured on 28 December 2000, was 43.72 feet from top of casing. The soil lithology is described on the soil boring log provided in Appendix D.

4.2 SOIL ANALYTICAL METHODS AND RESULTS

Selected soil samples were collected for laboratory analysis from boring MW9A on 3 November 2000. The soil samples were submitted to Sequoia Analytical in Morgan Hill, California. The samples were analyzed for TPH-g by modified EPA Method 8015, BTEX by EPA Method 8020, and MTBE by EPA Method 8260. Analytical results are summarized in Table 2. The laboratory report and chain-of-custody documentation are provided in Appendix F.

Benzene was detected at a maximum concentration of 0.331 mg/kg (26-26.5 feet). TPH-g was detected at a maximum concentration of 606 mg/kg (15.5-16 feet). MTBE was detected at a maximum concentration of 0.936 mg/kg (21-21.5 feet).

4.3 GROUNDWATER ANALYTICAL METHODS AND RESULTS

Groundwater samples were collected from MW9A along with other wells on 28 December 2000 in conjunction with quarterly groundwater monitoring. A report documenting the fourth quarter monitoring event was submitted under separate cover (ETIC 2001a). The samples were analyzed for TPH-g by modified EPA Method 8015, BTEX by EPA Method 8020, and MTBE by EPA Method 8260. December 2000 groundwater monitoring results are summarized in Figure 2. The laboratory analytical report and chain-of-custody documentation for groundwater samples are included in Appendix F.

Benzene was detected at a concentration of 14.5 µg/L, TPH-g was detected at a concentration of 1,040 µg/L, and MTBE was detected at a concentration of 65.5 µg/L in the groundwater sample from well MW9A.

5. SUMMARY

On 3 November 2000, ETIC observed the installation of groundwater monitoring well MW9A and the destruction of well MW9 at former Exxon RS 7-3399, located at 2991 Hopyard Road, Pleasanton, California. MW9A was installed to replace MW9, which had a partial obstruction and possible breached casing at approximately 26 feet bgs.

Lithology observed in MW9A is characteristic of that observed in other borings at the site and vicinity.

Selected soil samples were collected for laboratory analysis from boring MW9A. The samples were analyzed for TPH-g by modified EPA Method 8015, BTEX by EPA Method 8020, and MTBE by EPA Method 8260B. Benzene was detected at a maximum concentration of 0.331 mg/kg (26-26.5 feet). TPH-g was detected at a maximum concentration of 606 mg/kg (15.5-16 feet). MTBE was detected at a maximum concentration of 0.936 mg/kg (21-21.5 feet).

Groundwater samples were collected from MW9A along with other wells on 28 December 2000 in conjunction with quarterly groundwater monitoring. The samples were analyzed for TPH-g by modified EPA Method 8015, BTEX by EPA Method 8020, and MTBE by EPA Method 8260. Benzene was detected at a concentration of 14.5 µg/L, TPH-g was detected at a concentration of 1,040 µg/L, and MTBE was detected at a concentration of 65.5 µg/L in the groundwater sample from well MW9A.

REFERENCES

Delta (Delta Environmental Consultants, Inc.). 1996. Problem Assessment Report/Remedial Action Plan, Exxon Service Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Delta, Rancho Cordova, California. 30 May.

Delta (Delta Environmental Consultants, Inc.). 1997. Soil Sampling Results from Used Oil Tank Removal and Product Distribution Upgrade, Exxon Service Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Letter to Exxon Company, U.S.A., Concord, California. Delta, Rancho Cordova, California. 17 June.

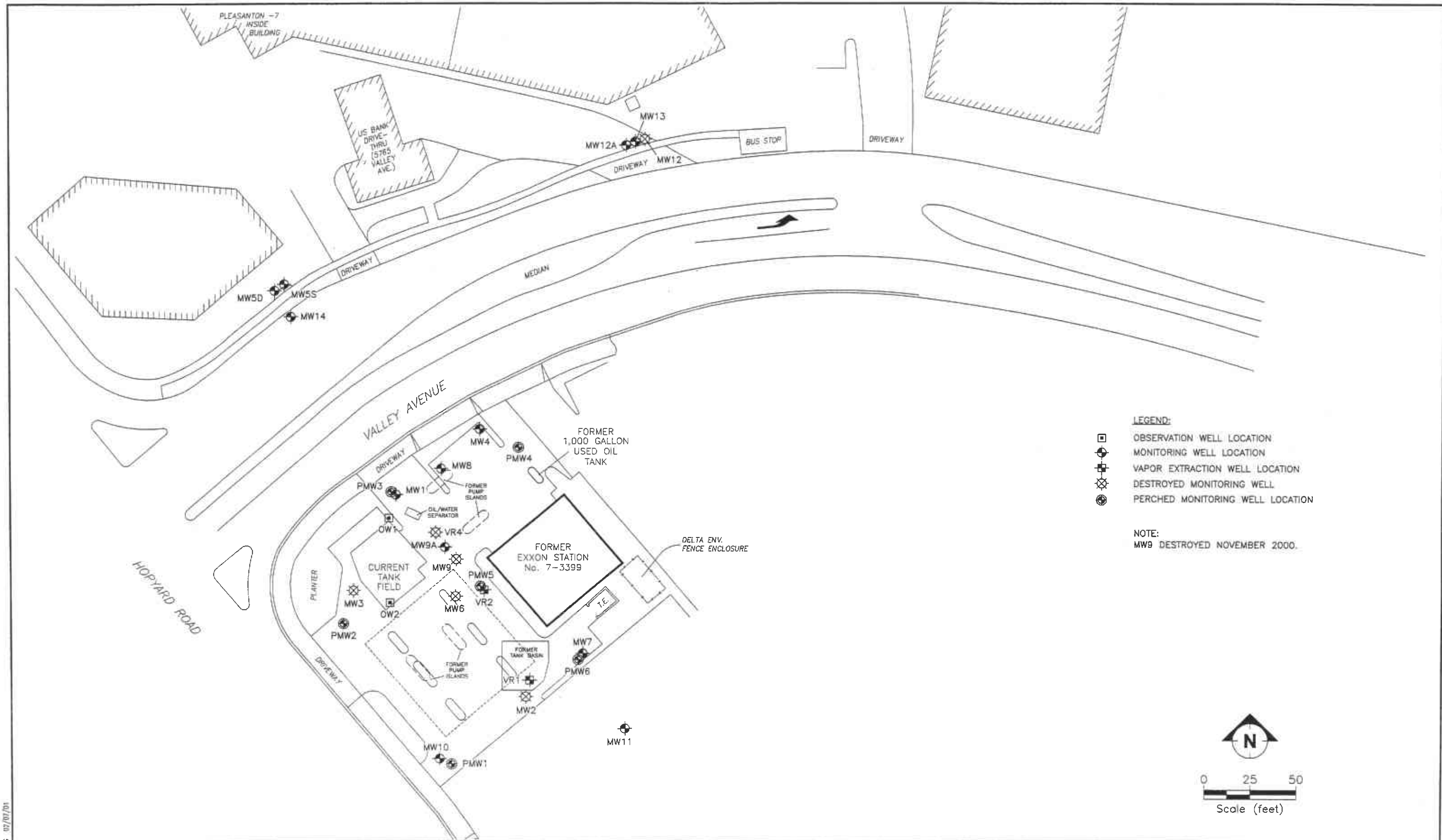
Delta (Delta Environmental Consultants, Inc.). 1999. Second Quarter 1999 Ground Water Monitoring and Remediation System Status Report and Supplemental Third Quarter 1999 Sampling Report, Exxon Service Station No. 7-3399, 2991 Hopyard Road, Pleasanton, California. Delta, Rancho Cordova, California. 13 September.

ETIC (ETIC Engineering, Inc.). 2000a. Work Plan for Well Replacement, Former Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Walnut Creek, California. October.

ETIC (ETIC Engineering, Inc.). 2000b. Letter to the Alameda County Health Agency, Former Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Walnut Creek, California. 13 December.

ETIC (ETIC Engineering, Inc.). 2001a. Report of Groundwater Monitoring, Fourth Quarter 2000, Former Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Pleasant Hill, California. March.

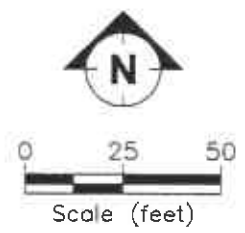
ETIC (ETIC Engineering, Inc.). 2001b. Well Installation Report, Former Exxon Retail Site 7-3399, 2991 Hopyard Road, Pleasanton, California. ETIC, Pleasant Hill, California. February.



LEGEND:

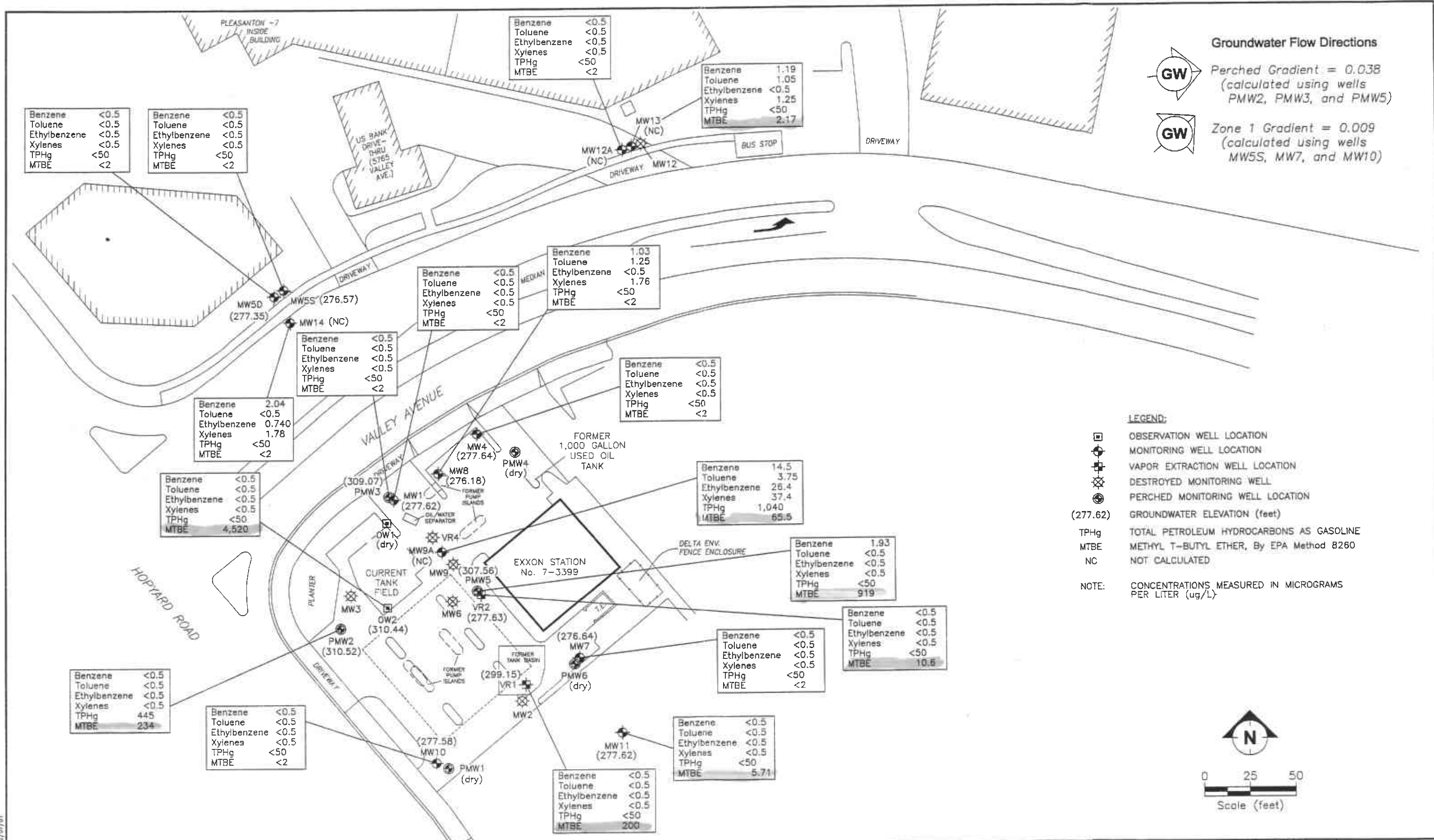
- OBSERVATION WELL LOCATION
- ⊕ MONITORING WELL LOCATION
- ⊕ VAPOR EXTRACTION WELL LOCATION
- ⊗ DESTROYED MONITORING WELL
- ⊙ PERCHED MONITORING WELL LOCATION

NOTE:
MW9 DESTROYED NOVEMBER 2000.



SITE PLAN
FORMER EXXON RS 7-3399
 2991 HOPYARD ROAD,
 PLEASANTON, CALIFORNIA

FIGURE:
1



SITE PLAN SHOWING GROUNDWATER ELEVATIONS AND ANALYTICAL RESULTS
 FORMER EXXON RS 7-3399
 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA
 28 DECEMBER 2000

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well No.	Date Installed	Elevation TOC* (ft)	Casing Material	Total Depth (ft bgs)	Well Depth (ft bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material	Status
MW1	04/01/88	320.52	--	57	57	--	4	32-57	0.020	30-57	--	Active
MW2 ^a	04/02/88	NM	--	57	57	--	4	37-57	0.020	34-57	--	Destroyed
MW3 ^b	04/04/88	NM	--	60	56	--	4	36-56	0.020	35-60	--	Destroyed
MW4	04/06/88	321.56	--	60	57	--	4	37-57	0.020	36-60	--	Active
MW5D	05/10/88	321.79	--	82.0	77.5	--	4	67.5-77.5	0.020	64-77.5	--	Active
MW5S	05/11/88	320.52	--	58	55	--	4	40-55	0.020	37.5-38	--	Active
MW6 ^c	05/11/88	NM	--	59	55	--	4	40-55	0.020	36-59	--	Destroyed
MW7	07/12/88	321.27	--	56.5	53	--	5	28-53	0.020	25-56.5	--	Active
MW8	09/30/89	321.86	PVC	140	133	14	4	118-133	0.020	114-133	--	Active
MW9 ^e	10/04/89	320.26	PVC	57.5	54.5	10	4	34.5-54.5	0.020	34-54.5	--	Detroyed
MW9A	11/03/00	321.17	PVC	59	58	12.25	6	35.0-55.0 55.0-58.0 ^h	0.020	33.0-58.0	#3 Sand	Active
MW10	10/06/89	322.99	PVC	60.5	60	10	4	40-60	0.020	38-60	--	Active
MW-11	11/02/89	321.73	PVC	55.5	55	10	4	35-55	0.020	33-55	--	Active
MW12 ^e	08/17/00	NM	PVC	132	131.5	8.33	2	114.5-131.5	0.020	112.5-132	#3 Sand	Destroyed
MW12A	08/30/00	NM	PVC	136	130.5	8.33	2	115.5-130.5	0.020	113.5-130.5	#3 Sand	Active
MW13	08/23/00	NM	PVC and Steel ^f	73	72	8.33	2	61.5-72	0.020	57.5-73	#3 Sand	Active
MW14	08/29/00	NM	PVC	143	136	8.33	2	121.5-136.5	0.020	119.5-143	#3 Sand	Active
VR1	10/24/88	321.00	PVC	30	30	10	4	10-30	0.020	10-30	--	Active
VR2	11/20/89	320.18	PVC	45.5	45	8	2	35-45	0.020	33-45.5	--	Active

TABLE 1 WELL CONSTRUCTION DETAILS, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Well No.	Date Installed	Elevation TOC* (ft)	Casing Material	Total Depth (ft bgs)	Well Depth (ft bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material	Status
VR3 ^d	11/20/89	318.73	PVC	35.5	35	8	2	5-35	0.020	4-35.5	--	Destroyed
VR4 ^d	11/24/89	321.19	PVC	35.5	32.5	8	2	12.5-32.5	0.020	4-35.5	--	Destroyed
OW1	--	322.45	--	--	--	--	4	--	--	--	--	Active
OW2	--	321.55	--	--	--	--	4	--	--	--	--	Active
PMW1	12/16/99	322.75	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW2	12/16/99	322.37	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW3	12/16/99	321.27	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW4	12/16/99	321.37	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW5	12/16/99	320.04	PVC	35.5	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active
PMW6	12/17/99	321.38	PVC	16	16	10	4	6-16	0.010	5.5-16	#2/12 Sand	Active

TOC Top of casing.
 * Measured from notch/mark on north edge of well casing.
 ft bgs Feet below ground surface.
 NM Not measured.
 -- Information not available.
 a Destroyed 12 July 1988.
 b Destroyed 29 August 1988.
 c Destroyed 24 October 1988.
 d Destroyed 5 November 1999.
 e Destroyed 30 August 2000.
 f PVC screen from 61.5-72, stainless steel blank from 11.5-61.5, PVC blank from surface to 11.5.
 g Destroyed 3 November 2000.
 h Depth of PVC sump at base of well.

TABLE 2 SOIL ANALYTICAL DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD, PLEASANTON, CALIFORNIA

Sample ID	Date	Depth (feet)	Concentration (mg/kg)					TPH as gasoline	MTBE
			Benzene	Toluene	Ethyl-benzene	Total Xylenes			
MW1	4/1/88	34.5	--	--	--	--	<2.0	--	
MW2	4/2/88	34.5	--	--	--	--	<2.0	--	
MW3	4/4/88	35	--	--	--	--	<2.0	--	
MW5S	4/6/88	35	--	--	--	--	<2.0	--	
MW5D	5/3/88	40	<0.005	<0.005	<0.005	<0.005	<2.0	--	
MW6	5/11/88	36	<0.005	<0.005	<0.005	<0.005	<2.0	--	
MW8	9/28/89	38.5	<0.005	<0.005	<0.005	<0.005	<2.0	--	
	9/30/89	74	<0.005	<0.005	<0.005	<0.005	<2.0	--	
MW9	10/4/89	6	4.9	40	26	150	1,500	--	
	10/4/89	21	23	1,230	51	240	3,000	--	
	10/4/89	36	0.89	0.37	0.16	0.4	9.3	--	
	10/4/89	38	100	560	150	720	6,200	--	
	10/4/89	41	3.6	424	18	90	900	--	
MW9A	11/3/00	11-11.5	0.0389	0.0071	0.0119	0.0085	2.71	0.522	
	11/3/00	15.5-16	<0.250	2.76	12.7	46.4	606	0.919	
	11/3/00	21-21.5	<0.0250	0.161	0.155	0.265	38.5	0.936	
	11/3/00	26-26.5	0.331	2.73	1.98	8.79	41.6	0.702	
	11/3/00	31-31.5	0.133	1.01	0.558	2.47	12.1	0.524	
	11/3/00	35-35.5	0.0829	0.0854	0.163	0.34	2.56	0.354	
	11/3/00	37.5-38	0.0059	0.009	0.0093	0.0267	<1.0	<0.100	
	11/3/00	39-39.5	<0.00500	0.006	0.0074	0.0168	<1.0	<0.100	
	11/3/00	45-45.5	<0.00500	<0.00500	<0.00500	0.0099	<1.0	<0.100	
	11/3/00	49.5-50	<0.00500	0.0065	<0.00500	0.0136	<1.0	<0.100	
MW10	10/6/88	20	<0.005	<0.005	<0.005	<0.005	<2.0	--	
	10/6/88	35	<0.005	<0.005	<0.005	<0.005	<2.0	--	
MW11	11/2/88	20	<0.005	<0.005	<0.005	0.087	<2.0	--	
	11/2/88	40	<0.005	<0.005	<0.005	<0.005	<2.0	--	
	11/2/88	45	<0.005	0.059	<0.005	<0.005	<2.0	--	
PMW-3	12/16/99	5	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010	
	12/16/99	10	<0.005	<0.005	<0.005	<0.005	<1.0	0.0063	
	12/16/99	15	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010	
PMW-4	12/16/99	5	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010	
	12/16/99	10	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010	

TABLE 2 SOIL ANALYTICAL DATA, FORMER EXXON RS 7-3399, 2991 HOPYARD ROAD,
PLEASANTON, CALIFORNIA

Sample ID	Date	Depth (feet)	Concentration (mg/kg)					TPH as gasoline	MTBE
			Benzene	Toluene	Ethyl-benzene	Total Xylenes			
PMW-4	12/16/99	15	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010	
PMW-6	12/16/99	5	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010	
	12/16/99	10	<0.005	<0.005	<0.005	<0.005	<1.0	<0.010	
	12/16/99	15	0.160	<0.005	9.0	0.035	55	<0.010	

a = Estimated value between method detection limit (MDL) and practical quantitation limit (PQL).

mg/kg = Milligrams per kilogram.

TPH = Total Petroleum Hydrocarbons by EPA Method 8015 Modified.

MTBE = Methyl tertiary butyl ether by EPA Method 8260B.

-- = Not analyzed.

Appendix A

Correspondence from the Alameda County Health Agency

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



Receive
NOV 03 2000
ETIC Engineering Inc.

3399
CORP.
REC'D

October 27, 2000

STID 1932

Mr. Darin Rouse
ExxonMobil Refining and Supply Company
P.O. Box 4032
Concord, CA 94524-4032

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

RE: Exxon Service Station #7-3399, 2991 Hopyard Road, Pleasanton – Well MW-9 replacement

Dear Mr. Rouse:

We are in receipt of the October 2000 ETIC Engineering, Inc. (ETIC) workplan for the replacement of monitoring well MW-9. Well MW-9's replacement will become a primary point for groundwater extraction from the shallow, on-site water-bearing zone ("Zone 1"). This well will be one of an array of extraction wells that also includes wells OW-2 and VR-1, both screened in a shallower "perched" water-bearing zone and located in the current and former underground storage tank cavities, respectively.

The cited ETIC workplan has been accepted as submitted.

I understand that associated field activities have been scheduled to begin the week of October 29th. Please contact me at (510) 567-6783 if you anticipate a change to this schedule.

Sincerely,

Scott O. Seery, CHMM
Hazardous Materials Specialist

- cc: Tom Peacock, ACDEH
- Steve Cusenza, Pleasanton Public Works Department
- Chuck Headlee, RWQCB
- Matt Katen, Zone 7
- Danielle Stefani, Livermore-Pleasanton Fire Department
- Joe Muehleck, ETIC Engineering, Inc., 144 Mayhew Way, Walnut Creek, CA 94524-4032

Appendix B

Permits



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588-5127

PHONE (925) 484-2600 FAX (925) 482-3914

October 26, 2000

FILE COPY

Received

OCT 27 2000

ETIC Engineering Inc.

Mr. Joe Muehleck
ETIC Engineering, Inc.
144 Mayhew Way
Walnut Creek, CA 94596

Dear Mr. Muehleck:

Enclosed are drilling permits 20196 and 20198 for the destruction of well 3S/1E 18H14 (MW-9) and the construction of a replacement monitoring well at 2991 Hopyard Road in Pleasanton for Exxon Mobil Refining & Supply Company. Also enclosed are current drilling permit applications for your files.

Please note that permit condition A-2 requires that a well destruction and construction report be submitted after completion of the work. The report should include a description of methods and materials used to destroy the well, drilling and completion logs, location sketch, date of destruction, and permit number. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 235 or Matt Katen at extension 234.

Sincerely,

Wyman Hong
Water Resources Technician II

Enc.



ZONE 7 WATER AGENCY

5997 PARK DRIVE PLEASANTON, CALIFORNIA 94588-5. VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE

LOCATION OF PROJECT HOPYARD ROAD + VALLEY AVE PLEASANTON, CA
(2991 HOPYARD ROAD)

PERMIT NUMBER 20196
WELL NUMBER 3S/IE 18H14 (MW-9)
APN _____

California Coordinates Source _____ ft. Accuracy+ _____ ft.
DCN _____ ft. CCE _____ ft.
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT Name EXXON MOBIL REFINING + SUPPLY CO.
Address PO BOX 4032 Phone 925-246-8768
City CONCORD, CA Zip 94524-4032

- A. GENERAL**
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
 2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
 3. Permit is void if project not begun within 90 days of approval date.

APPLICANT Name ETEC ENGINEERING
Address 144 MAYHEW WAY Fax 925-977-7915
City WALNUT CREEK, CA Phone 925-977-7914 Zip 94596

- B. WATER SUPPLY WELLS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
 3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
 4. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT

<input type="checkbox"/> Well Construction	<input type="checkbox"/> Geotechnical Investigation
<input type="checkbox"/> Cathodic Protection	<input type="checkbox"/> General <input type="checkbox"/>
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Contamination <input type="checkbox"/>
<input type="checkbox"/> Monitoring	<input type="checkbox"/> Well Destruction <input checked="" type="checkbox"/>

PROPOSED WATER SUPPLY WELL USE

<input type="checkbox"/> New Domestic	<input type="checkbox"/> Replacement Domestic <input type="checkbox"/>
<input type="checkbox"/> Municipal	<input type="checkbox"/> Irrigation <input type="checkbox"/>
<input type="checkbox"/> Industrial	<input type="checkbox"/> Other _____ <input type="checkbox"/>

DRILLING METHOD:

<input type="checkbox"/> Mud Rotary	<input type="checkbox"/> Air Rotary	<input type="checkbox"/> Auger	<input type="checkbox"/>
<input type="checkbox"/> Cable	<input type="checkbox"/> Other	<input type="checkbox"/>	<input type="checkbox"/>

DRILLER'S LICENSE NO. C57 710079

WELL PROJECTS

Drill Hole Diameter _____ in.	Maximum _____
Casing Diameter _____ in.	Depth _____ ft.
Surface Seal Depth _____ ft.	Number _____

GEOTECHNICAL PROJECTS

Number of Borings _____	Maximum _____
Hole Diameter _____ in.	Depth _____ ft.

ESTIMATED STARTING DATE 11/2/00
ESTIMATED COMPLETION DATE 11/3/00

- C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS**
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
- D. GEOTECHNICAL** Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.
- E. CATHODIC.** Fill hole above anode zone with concrete placed by tremie.
- F. WELL DESTRUCTION.** See attached.
- G. SPECIAL CONDITIONS**

Approved Wyman Hong Date 10/23/00
Wyman Hong

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] Date 10/20/00

October 23, 2000

Zone 7
Water Resources Engineering
Groundwater Protection Ordinance

Exxon Mobil Refining & Supply Company
2991 Hopyard Road
Pleasanton
Wells 3S/1E 18H14 (MW-9)
Permit 20196

Destruction Requirements:

1. Clean out all bridged or poorly compacted materials to the bottom of the well.
2. Sound the well as deeply as practicable and record for your report.
3. Pressure grout the casing to two feet below the finished grade or original ground, whichever is the lower elevation.
4. Remove the casing, seal, and gravel pack to two feet below the finished grade or original ground, whichever is the lower elevation (optional).
5. After the seal has set, backfill the remaining hole with compacted material(optional).



ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235
FAX (925) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE

LOCATION OF PROJECT HOPKINSON ROAD +
VALLEY AVE PLEASANTON, CA
(2991 HOPKINSON ROAD)

PERMIT NUMBER 20198
WELL NUMBER 3S/1E 18H21
APN _____

California Coordinates Source _____ ft. Accuracy ± _____ ft.
CCN _____ ft. CCE _____ ft.
APN _____

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name EXXON MOBIL REFINING + SUPPLY CO.
Address PO BOX 4032 Phone 925-246-8768
City CONCORD, CA Zip 94524-4032

A.

GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name ETEC ENGINEERING
Address 144 MAYHEW WAY Phone 925-977-7914
City WALNUT CREEK, CA Zip 94596

B.

WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
4. A sample port is required on the discharge pipe near the wellhead.

TYPE OF PROJECT

Well Construction	<input type="checkbox"/>	Geotechnical Investigation	<input type="checkbox"/>
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	<input type="checkbox"/>

C.

GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other _____	<input type="checkbox"/>

D.

GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

E.

CATHODIC. Fill hole above anode zone with concrete placed by tremie.

F.

WELL DESTRUCTION. See attached.

G.

SPECIAL CONDITIONS

DRILLING METHOD:

Mud Rotary Air Rotary Auger
 Cable Other

DRILLER'S LICENSE NO. C57 710079

WELL PROJECTS
Drill Hole Diameter 12 in. Maximum Depth 65 ft.
Casing Diameter 6 in. Number 1
Surface Seal Depth 33 ft.

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum Hole Diameter _____ in. Depth _____ ft.

ESTIMATED STARTING DATE 11/2/00
ESTIMATED COMPLETION DATE 11/3/00

Approved Wyman Hong Date 10/23/00
Wyman Hong

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [Signature] Date 10/20/00

Appendix C

**Protocols for Borehole and Well Drilling,
Completion, Development, and Sampling**

PROTOCOLS FOR WELL DRILLING, COMPLETION, DEVELOPMENT, AND SAMPLING

DRILLING

Prior to drilling, all boreholes will be cleared of underground utilities to a depth of at least 4 feet below ground surface (bgs) in "non-critical zones" and to 8 feet bgs in "critical zones". Critical zones are defined as locations that are within 10 feet from the furthest edge of any underground storage tank (UST), within 10 feet of the product dispenser islands, and the entire area between the UST field and the product dispenser islands. If only borings are being installed, an 8- to 12-inch-diameter circle will be cut in the surface cover at each boring location. If wells are being installed, a 10-inch circle to a 24-inch circle or a 2-foot by 2-foot square will be cut in the surface cover at each well location. A hole, greater than the diameter of the drilling tool being used, will then be cleared at each boring location, using a hand auger or vacuum excavation system. The vacuum system consists of a water lance, used to disturb native soil by injecting water into the soil, and a vacuum, used to remove the soil.

Boreholes are drilled with a truck-mounted rotary drill, using hollow-stem continuous-flight augers. The diameter of the augers is selected to provide an annular space between the boring wall and the well casing of no less than 2 inches.

All augers are pressure-washed or steam-cleaned before drilling begins and before each new borehole is drilled. All drill cuttings are either placed on and covered with plastic sheeting or contained in sealed 55-gallon drums. All fluids generated during cleaning of drilling equipment are contained in sealed 55-gallon drums. All waste generated during drilling activities is stored onsite until appropriate disposal is arranged. The drums are labeled with the site description (including owner's name) and date. The drill cuttings are disposed of at a proper facility based on results of soil sample analysis.

During drilling, an ETIC geologist generates a soil boring log for each borehole. The boring logs contain detailed geological information, including descriptions of the soils classified according to the Unified Soil Classification System (USCS), blow counts for soil sampling intervals, organic vapor analyzer (OVA) readings, relative moisture content of the soils, and initial and static water levels.

SOIL SAMPLING

Soil samples are collected using a 2-inch-diameter by 18- or 24-inch-long modified California split-spoon sampler containing three or four 6-inch-long brass or stainless steel liners. The sampler and liners are scrubbed in potable water and Alconox or equivalent detergent and rinsed with potable water after use at each sampling interval.

At each sample depth, the sampler is driven 18 or 24 inches ahead of the augers into undisturbed soil. When the sampler is retrieved, either the lowermost or the middle sample liner is removed and the ends of the tube are covered with aluminum foil or Teflon tape and sealed with plastic caps. The soil-filled liner is labeled with the borehole number, sample depth, site location, date, and time. The samples are placed in zip-lock bags and stored in a cooler containing ice.

Soil from one of the liners is removed and placed in a sealed plastic bag. The soil is scanned with an OVA equipped with a flame ionization detector (FID) or photoionization detector (PID), and the readings are noted on the soil boring logs. The soil from the remaining liner(s) is examined and classified according to the Unified Soil Classification System.

Soil samples are delivered, under chain of custody, to a laboratory certified by the California Department of Health Services (DHS) for analyses.

WELL INSTALLATION

The boreholes are completed as groundwater monitoring wells, vapor extraction wells, groundwater extraction wells, or air sparging wells. The wells are typically constructed by installing Schedule 40 PVC flush-threaded casing through the inner opening of the auger. The screened interval consists of slotted casing of the appropriate slot size and length placed at depths depending on soil conditions encountered during drilling and the depth to groundwater. A threaded end plug or a slip cap secured with a stainless steel screw is placed on the bottom of the well.

A filter pack of clean sand of appropriate size is placed in the annular space around the well screen to approximately 1 to 2 feet above the top of the screen. The sand is placed through the inner opening of the augers as they are slowly removed. A transitional seal is completed above the sand pack by adding 1 to 2 feet of bentonite pellets and hydrating them with water. A surface seal is then created by placing neat cement grout containing less than 5 percent bentonite from the top of the bentonite seal to just below the ground surface.

The well is finished at the surface with a slightly raised, traffic-rated, watertight steel traffic box set in concrete. The traffic box is secured with bolts and the casing is further secured with a locking well cap.

WELL DEVELOPMENT

The wells are developed no less than 72 hours after completion or prior to establishing the bentonite seal during the drilling activities. Development typically consists of surging the screened interval of the well with a flapper valve surge block of the same diameter as the well for approximately 10 minutes. The well is then purged with a vacuum truck and a dedicated PVC stinger or disposable tubing, an inertial pump, a submersible electric pump, a centrifugal pump, an air-lift pump, or a PVC bailer until at least 3 casing volumes are removed and the water is free of silt and apparent turbidity.

A record of the purging methods and volumes of water purged is maintained. All purge water is contained on the site in properly labeled 55-gallon drums. Purged water is transported to an appropriate treatment facility.

GROUNDWATER SAMPLING

The wells are sampled at least 72 hours after grout placement and at least 48 hours after development. Prior to groundwater sample collection, each well is purged until at least 3 casing volumes have been removed. Wells that purge dry are allowed to recover prior to sampling. The pH, specific conductivity, and temperature of the groundwater removed are recorded during purging to ensure that the physical parameters are stable prior to sampling. All samples are collected with a factory cleaned disposable bailer. The bailer is operated by hand using new rope or Teflon-coated

stainless steel wire. The sampling personnel wear clean Nitrile gloves during sampling operations and while handling sample bottles.

The groundwater samples are emptied from the bailer directly into the sample bottles with a bottom-emptying device. The samples are collected in 40-ml glass volatile organic analysis (VOA) vials and/or 1-liter amber bottles with Teflon-lined septum caps as appropriate. The sample bottles contain appropriate preservatives, typically hydrochloric acid. VOA vials are filled to the top of the bottle so that there are no air bubbles.

The sample bottles are labeled with the well number, date, location, sampler's initials, and preservative used. The sample vials are placed in a cooler with ice for delivery to the laboratory. Standard chain-of-custody procedures are followed.

WELL SURVEY

The elevation of the top of the well casing is surveyed by state licensed land surveyor. A small notch is cut in the top of the well casing to mark the survey point and to ensure that this point is used for all future water level measurements. A loop originating and ending at the datum is closed to ± 0.01 feet according to standard methods.

Appendix D

Boring Log and Well Completion Diagram

MAJOR DIVISIONS			TYPICAL NAMES		
COARSE-GRAINED SOILS more than half is coarser than No. 200 sieve	GRAVELS more than half coarse fraction is larger than No. 4 sieve size	Clean gravels with little or no fines	GW		Well graded gravels with or without sand, little or no fines.
		Gravels with over 12% fines	GP		Poorly graded gravels with or without sand, little or no fines.
			GM		Silty gravels, silty gravels with sand.
		GC		Clayey gravels, clayey gravels with sand.	
	SANDS more than half coarse fraction is smaller than No. 4 sieve size	Clean sands with little or no fines	SW		Well graded sands with or without gravel, little or no fines.
		Sands with over 12% fines	SP		Poorly graded sands with or without gravel, little or no fines.
			SM		Silty sands with or without gravel.
			SC		Clayey sands with or without gravel.
FINE-GRAINED SOILS more than half is finer than No. 200 sieve	SILTS AND CLAYS liquid limit 50% or less	ML		Inorganic silts and very fine sands, rock flour, silts with sands and gravels.	
		CL		Inorganic clays of low to medium plasticity, clays with sands and gravels, lean clays.	
		OL		Organic silts or clays of low plasticity.	
	SILTS AND CLAYS liquid limit greater than 50%	MH		Inorganic silts, micaceous or diatomaceous, fine sandy or silty soils, elastic silts.	
		CH		Inorganic clays of high plasticity, fat clays.	
		OH		Organic silts or clays of medium to high plasticity.	
HIGHLY ORGANIC SOILS			Pt		Peat and other highly organic soils.

SYMBOLS		DRILL LOG ROCK TYPES	
	First Encountered Groundwater		Static Groundwater
	Portland Cement Blank Casing Bentonite Pellets Filter Pack Screened Casing		Limestone
			Dolomite
			Mudstone
			Siltstone
			Sandstone
			Igneous



LOG OF SOIL BORING: MW9A

COORDINATES:

ELEVATION TOP OF CASING:

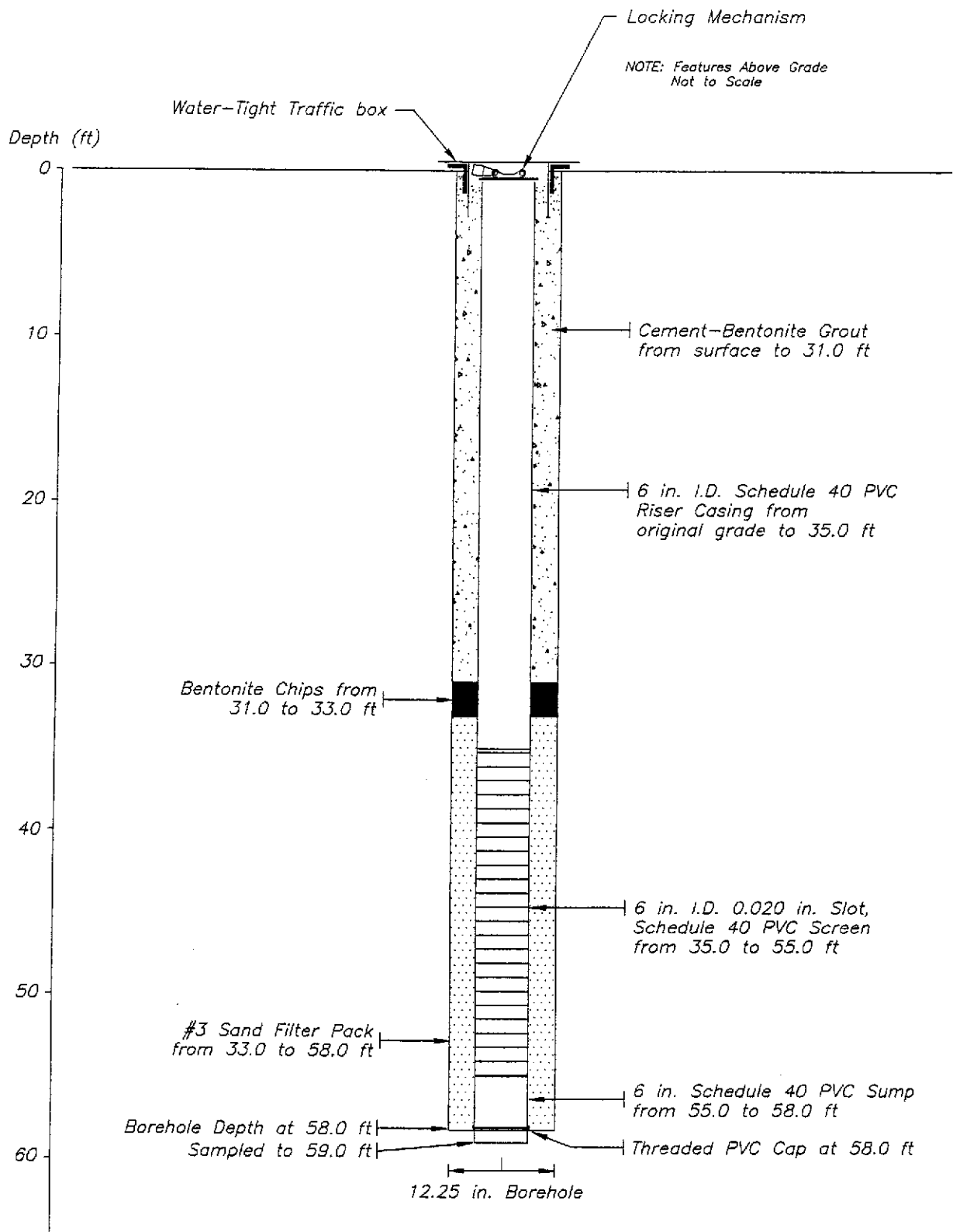
CASING BELOW SURFACE:

CLIENT Exxon Mobil	SITE NUMBER 7-3399	LOCATION 2991 Hopyard Rd. Pleasanton, CA	
DRILLING AND SAMPLING METHODS Borehole cleared to 8 feet bgs using vacuum rig. Drilled with an 12.25" OD Hollow stem Augers. Sampled with 18" and 24" split spoon sampler.			
WATER LEVEL	43.57	DRILLING	
TIME	1706	START TIME	FINISH TIME
DATE	11/3/00	DATE	DATE
REFERENCE	TOC	11/3/00	11/3/00

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	SURFACE CONDITIONS		
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				Concrete (8")		
							DESCRIPTION BY: Bryan Campbell		
					0		CONCRETE (8")		
					1				
					2				
					3				
					4				
					5				
					6				
					7		SANDY SILT (MH): olive (5Y 4/4), soft, low to medium plasticity, moist.		
					8				
					9				
18	18	12	7		10	MH			
		16				11	CH	CLAY (CH): olive (5Y 4/4) with blue and red mottling, trace black carbonaceous material, firm to hard, high plasticity, moist.	
		20				12			
					13				
					14				
18	18	9	11		15		@15: SAME: increase in blue color.		
		9				16	CH		
		11				17			
					18				
					19				
					20	CL	SILTY CLAY (CL): bluish gray (5/1), soft to firm, medium plasticity, moist.		

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW9A
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				
18	18	10	318		21		SILTY CLAY (CL): bluish gray (5/1), soft to firm, medium plasticity, moist. @21 feet appearance of fine sand.
		12					
		18					
					22		
					23		
					24		
18	18	4	256		25		CLAY (CH): olive (5Y 4/3), firm to hard, high plasticity, moist.
		20					
		25					
					26		
					27		
					28		
					29		
18	18	12	81		30		
		20					
		30					
					31		
					32		
					33		
18	18	15	76		34		
		40					
		50					
					35		@ 34.5 SAME: color change to pale olive (5Y 6/4).
					36		
					37		SAND (SP): olive (5Y 4/3), poorly graded, medium to coarse, weak cementation, nonplastic fines, saturated.
12	12	38	37		38		SAND with GRAVEL (SW): dark olive gray (5Y 3/2), well graded, weak cementation, medium to coarse sand, subrounded gravel clasts up to 1 cm, nonplastic fines.
		50/3"					
					39		SILTY GRAVEL with SAND (GM): olive (5Y 5/6), fine to coarse sand, subrounded gravel clasts up to 2 cm, weak to moderate cementation, nonplastic fines.
6	6	50/4"	9		40		GRAVEL with SILT and SAND (GW-GM): olive (5Y 5/4), well graded, fine to coarse sand, subrounded gravel clasts up to 2 cm, weak cementation, nonplastic fines, moist to wet.
					41		
6	6	50/4"			42		
					43		
6	6	50/4"			44		SILTY SAND (SM): olive (5Y 5/6), poorly graded, fine to medium sand, weak cementation, nonplastic fines, wet.
					45		

INCHES				WELL DETAIL	DEPTH (feet)	GRAPHIC LOG	LOG OF SOIL BORING: MW9A
DRIVEN	RECOVER	BLOWS/6" SAMPLER	PID READING				
12	12	15 50/4"	2		46	SM	44.5-46.5: SILTY SAND (SM): olive (5Y 5/6), poorly graded, fine to medium sand, weak cementation, nonplastic fines, wet.
					47	GW	46.5-48.75: GRAVEL with SAND (GW): very dark gray (5Y 3/1), well graded, subangular to subrounded gravel clasts up to 2 cm, some coarse sand, weak cementation, saturated.
12	12	20 50/4"			48		
					49	SP	48.75-49.5: SAND (SP): olive (5Y 4/3), poorly graded, medium to coarse, weak cementation, nonplastic fines, saturated.
12	12	50/4"	3.6		50	GW	49.5-50.75: GRAVEL with SAND (GW): very dark gray (5Y 3/1), well graded, subangular to subrounded gravel clasts up to 2 cm, some coarse sand, weak cementation, saturated.
					51	SP	
12	12	50/5.5"			52	SP	50.75-52.5: SAND (SP): olive (5Y 4/3), poorly graded, medium to coarse, weak cementation, nonplastic fines, saturated.
					53	SW	
6	6	50/5"			54		52.5-56.75: SAND (SW): dark olive gray (5Y 4/3), well graded, medium to coarse sand, weak cementation, nonplastic fines, saturated.
					55	SW	
6	6	50/3"	1		56		
					57	CH	56.75-59: CLAY (CH): olive (5Y 5/4), hard, high plasticity, moist.
12	12	33 50/5"	21.5	58		Boring terminated at 58'. Sampled to 59'.	
12	12	50/5.5"		59			
				60			
				61			
				62			
				63			
				64			
				65			
				66			
				67			
				68			
				69			
				70			



Appendix E

Well Development Form

GROUNDWATER MONITORING WELL PURGE/SAMPLING WORK SHEET

Project Name: ETIC/EXXON# 3399
 Address: 2991 HAYWARD RD
PLEASANTON
 Well Number: 9A
 Purge/Sampler(s): _____

Project Number: _____
 Reg. Agency: _____
 Other Requirements: _____
 Well Lock Number: _____

WELL VOLUME CALCULATION						
Well Casing Diameter (in.)	Total Well Depth (ft.)	Depth to Groundwater (GW)	Linear Feet of GW		Gallons Per Linear Foot	1 Well Volume (gal.)
2	-	-	-	X	0.17	-
4	-	-	-	X	0.85	-
4.5	-	-	-	X	0.83	-
6	<u>53.3</u>	<u>44.24</u>	<u>906</u>	X	1.5	<u>13.59</u>

GROUNDWATER SURFACE INSPECTION (BAILER CHECK)

Floating Product (ft.) (in.): _____ Sheen/Iridescence: _____ Odor: _____

GROUNDWATER PURGING PURGE METHOD

Stainless Steel Baller; Submersible Pump; Air Diaphragm Pump; Other VACUUM TRUCK

Stagnant Volumes Purged	Volume Purged (gal.)	Time	pH	Conductivity $\mu S/cm$	Temp. of °C	Color/Turbidity (other)
0	0	9:26	7.11	2.85	15.5	CLOUDY
1	20	9:51	STOP PURGING	SURFACE	25	STROKES
2	-	10:10	7.20	2.41	16.0	MURKY
3	40	10:24	STOP PURGING	SURFACE	25	STROKES
4	-	10:50	7.19	2.31	16.4	MURKY
5	60	11:07	STOP PURGING	SURFACE	20	STROKES
6	-	11:29	7.24	2.39	17.1	MURKY
7	80	11:41	7.25	2.42	17.6	MURKY
8	105	11:57	7.31	2.45	17.8	CLOUDY
9	110	TOTAL	PURGE	-	-	-
10	-	-	-	-	-	-

DEPTH TO BOTTOM @ 12:10 = 57.60

Water Level Recovery

Sample Containers

	Depth to GW (ft.)	No.	Preservation Method/pH
(I) Initially	_____	_____	_____
(P) After Purging	_____	_____	_____
P - 0.8 (P-I) =	_____	_____	_____
(S) Before Sampling	_____	_____	_____
(P-S) / (P-I) X 100 =	_____	_____	_____
	80% Recovery		
	% Total Recovery		

Sample Date/Time: _____ Turbidity (NTU): _____

PURGED WATER CONTAINMENT

10 gallons stored in 2 55 gallons drum(s). Any previous drums? _____ Capacity _____

Remarks: _____

Appendix F
Laboratory Analytical Reports



Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

27 November, 2000

Christa Marting
ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek, CA 94596

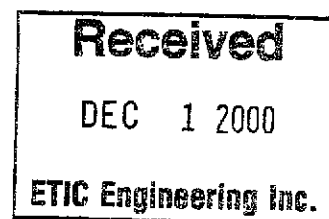
RE: Exxon
Sequoia Report: MJK0284

Enclosed are the results of analyses for samples received by the laboratory on 11/06/00 17:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Project Manager

CA ELAP Certificate #1210





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW9A,11'-11.5'	MJK0284-01	Soil	11/03/00 09:15	11/06/00 17:00
MW9A,15.5'-16'	MJK0284-02	Soil	11/03/00 09:20	11/06/00 17:00
MW9A,21'-21.5'	MJK0284-03	Soil	11/03/00 09:30	11/06/00 17:00
MW9A,26'-26.5'	MJK0284-04	Soil	11/03/00 09:45	11/06/00 17:00
MW9A,31'-31.5'	MJK0284-05	Soil	11/03/00 09:50	11/06/00 17:00
MW9A,35'-35.5'	MJK0284-06	Soil	11/03/00 09:53	11/06/00 17:00
MW9A,37.5'-38'	MJK0284-07	Soil	11/03/00 10:00	11/06/00 17:00
MW9A,39'-39.5'	MJK0284-08	Soil	11/03/00 10:03	11/06/00 17:00
MW9A,45'-45.5'	MJK0284-09	Soil	11/03/00 10:30	11/06/00 17:00
MW9A,49.5'-50'	MJK0284-10	Soil	11/03/00 10:45	11/06/00 17:00
MW9A,55'-55.5'	MJK0284-11	Soil	11/03/00 11:00	11/06/00 17:00
MW9A,58.5'-59'	MJK0284-12	Soil	11/03/00 11:30	11/06/00 17:00

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ron Chew, Project Manager





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 17:44

**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW9A,11'-11.5' (MJK0284-01) Soil Sampled: 11/03/00 09:15 Received: 11/06/00 17:00									
Moisture	21.2	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	
MW9A,15.5'-16' (MJK0284-02) Soil Sampled: 11/03/00 09:20 Received: 11/06/00 17:00									
Moisture	24.5	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	
MW9A,21'-21.5' (MJK0284-03) Soil Sampled: 11/03/00 09:30 Received: 11/06/00 17:00									
Moisture	17.1	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	
MW9A,26'-26.5' (MJK0284-04) Soil Sampled: 11/03/00 09:45 Received: 11/06/00 17:00									
Moisture	21.2	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	
MW9A,31'-31.5' (MJK0284-05) Soil Sampled: 11/03/00 09:50 Received: 11/06/00 17:00									
Moisture	19.1	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	
MW9A,35'-35.5' (MJK0284-06) Soil Sampled: 11/03/00 09:53 Received: 11/06/00 17:00									
Moisture	18.5	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	
MW9A,37.5'-38' (MJK0284-07) Soil Sampled: 11/03/00 10:00 Received: 11/06/00 17:00									
Moisture	8.40	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	
MW9A,39'-39.5' (MJK0284-08) Soil Sampled: 11/03/00 10:03 Received: 11/06/00 17:00									
Moisture	8.00	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	
MW9A,45'-45.5' (MJK0284-09) Soil Sampled: 11/03/00 10:30 Received: 11/06/00 17:00									
Moisture	12.0	0.0100	%	1	OK13007	11/10/00	11/13/00	EPA 160.3	





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA. 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 17:44

**Conventional Chemistry Parameters by APHA/EPA Methods
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW9A,49.5'-50' (MJK0284-10) Soil Sampled: 11/03/00 10:45 Received: 11/06/00 17:00									
Moisture	7.50	0.0100	%	1	0K13007	11/10/00	11/13/00	EPA 160.3	
MW9A,55'-55.5' (MJK0284-11) Soil Sampled: 11/03/00 11:00 Received: 11/06/00 17:00									
Moisture	12.1	0.0100	%	1	0K13007	11/10/00	11/13/00	EPA 160.3	
MW9A,58.5'-59' (MJK0284-12) Soil Sampled: 11/03/00 11:30 Received: 11/06/00 17:00									
Moisture	25.1	0.0100	%	1	0K13007	11/10/00	11/13/00	EPA 160.3	





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW9A,11'-11.5' (MJK0284-01) Soil Sampled: 11/03/00 09:15 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	2.71	1.00	mg/kg	1	0110078	11/14/00	11/15/00	DHS LUFT	P-02
Benzene	0.0389	0.00500	"	"	"	"	"	"	
Toluene	0.00710	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0119	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.00850	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		117 %	60.0-140	"	"	"	"	"	
MW9A,15.5'-16' (MJK0284-02) Soil Sampled: 11/03/00 09:20 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	606	50.0	mg/kg	50	0110078	11/14/00	11/15/00	DHS LUFT	P-02
Benzene	ND	0.250	"	"	"	"	"	"	
Toluene	2.76	0.250	"	"	"	"	"	"	
Ethylbenzene	12.7	0.250	"	"	"	"	"	"	
Xylenes (total)	46.4	0.250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		ND %	60.0-140	"	"	"	"	"	S-06
MW9A,21'-21.5' (MJK0284-03) Soil Sampled: 11/03/00 09:30 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	38.5	5.00	mg/kg	5	0110078	11/14/00	11/16/00	DHS LUFT	P-03
Benzene	ND	0.0250	"	"	"	"	"	"	
Toluene	0.161	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.155	0.0250	"	"	"	"	"	"	
Xylenes (total)	0.265	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		59.5 %	60.0-140	"	"	"	"	"	S-06
MW9A,26'-26.5' (MJK0284-04) Soil Sampled: 11/03/00 09:45 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	41.6	5.00	mg/kg	5	0110078	11/14/00	11/15/00	DHS LUFT	P-02
Benzene	0.331	0.0250	"	"	"	"	"	"	
Toluene	2.73	0.0250	"	"	"	"	"	"	
Ethylbenzene	1.98	0.0250	"	"	"	"	"	"	
Xylenes (total)	8.79	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		25.3 %	60.0-140	"	"	"	"	"	S-06





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA. 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW9A,31'-31.5' (MJK0284-05) Soil Sampled: 11/03/00 09:50 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	12.1	5.00	mg/kg	5	0110078	11/14/00	11/15/00	DHS LUFT	P-02
Benzene	0.133	0.0250	"	"	"	"	"	"	
Toluene	1.01	0.0250	"	"	"	"	"	"	
Ethylbenzene	0.558	0.0250	"	"	"	"	"	"	
Xylenes (total)	2.47	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		21.8 %	60.0-140	"	"	"	"	"	S-06
MW9A,35'-35.5' (MJK0284-06) Soil Sampled: 11/03/00 09:53 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	2.56	1.00	mg/kg	1	0110078	11/14/00	11/15/00	DHS LUFT	P-01
Benzene	0.0829	0.00500	"	"	"	"	"	"	
Toluene	0.0854	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.163	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.340	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		109 %	60.0-140	"	"	"	"	"	
MW9A,37.5'-38' (MJK0284-07) Soil Sampled: 11/03/00 10:00 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg	1	0110078	11/14/00	11/15/00	DHS LUFT	
Benzene	0.00590	0.00500	"	"	"	"	"	"	
Toluene	0.00900	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.00930	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0267	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		102 %	60.0-140	"	"	"	"	"	
MW9A,39'-39.5' (MJK0284-08) Soil Sampled: 11/03/00 10:03 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg	1	0110078	11/14/00	11/15/00	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	0.00600	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.00740	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0168	0.00500	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		92.0 %	60.0-140	"	"	"	"	"	





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA. 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT

Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW9A,45'-45.5' (MJK0284-09) Soil Sampled: 11/03/00 10:30 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg	1	0110078	11/14/00	11/15/00	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.00990	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.5 %	60.0-140	"	"	"	"	"	
MW9A,49.5'-50' (MJK0284-10) Soil Sampled: 11/03/00 10:45 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg	1	0110078	11/14/00	11/16/00	DHS LUFT	
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	0.00650	0.00500	"	"	"	"	"	"	
Ethylbenzene	ND	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0136	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.0 %	60.0-140	"	"	"	"	"	
MW9A,55'-55.5' (MJK0284-11) Soil Sampled: 11/03/00 11:00 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	20.8	2.00	mg/kg	2	0110054	11/15/00	11/17/00	DHS LUFT	P-03
Benzene	ND	0.0100	"	"	"	"	"	"	
Toluene	0.0147	0.0100	"	"	"	"	"	"	
Ethylbenzene	0.143	0.0100	"	"	"	"	"	"	
Xylenes (total)	0.156	0.0100	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		63.5 %	60.0-140	"	"	"	"	"	S-06
MW9A,58.5'-59' (MJK0284-12) Soil Sampled: 11/03/00 11:30 Received: 11/06/00 17:00									
Purgeable Hydrocarbons as Gasoline	2.78	1.00	mg/kg	1	0110054	11/15/00	11/16/00	DHS LUFT	P-03
Benzene	ND	0.00500	"	"	"	"	"	"	
Toluene	ND	0.00500	"	"	"	"	"	"	
Ethylbenzene	0.0119	0.00500	"	"	"	"	"	"	
Xylenes (total)	0.0180	0.00500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		79.5 %	60.0-140	"	"	"	"	"	





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

**MTBE by EPA Method 8260B
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW9A,11'-11.5' (MJK0284-01) Soil Sampled: 11/03/00 09:15 Received: 11/06/00 17:00									
Methyl tert-butyl ether	0.522	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		104 %	70.0-121		"	"	"	"	
MW9A,15.5'-16' (MJK0284-02) Soil Sampled: 11/03/00 09:20 Received: 11/06/00 17:00									
Methyl tert-butyl ether	0.919	0.500	mg/kg	5	0110074	11/15/00	11/16/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		85.6 %	70.0-121		"	"	"	"	
MW9A,21'-21.5' (MJK0284-03) Soil Sampled: 11/03/00 09:30 Received: 11/06/00 17:00									
Methyl tert-butyl ether	0.936	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		100 %	70.0-121		"	"	"	"	
MW9A,26'-26.5' (MJK0284-04) Soil Sampled: 11/03/00 09:45 Received: 11/06/00 17:00									
Methyl tert-butyl ether	0.702	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		101 %	70.0-121		"	"	"	"	
MW9A,31'-31.5' (MJK0284-05) Soil Sampled: 11/03/00 09:50 Received: 11/06/00 17:00									
Methyl tert-butyl ether	0.524	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		100 %	70.0-121		"	"	"	"	
MW9A,35'-35.5' (MJK0284-06) Soil Sampled: 11/03/00 09:53 Received: 11/06/00 17:00									
Methyl tert-butyl ether	0.354	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		104 %	70.0-121		"	"	"	"	
MW9A,37.5'-38' (MJK0284-07) Soil Sampled: 11/03/00 10:00 Received: 11/06/00 17:00									
Methyl tert-butyl ether	ND	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		100 %	70.0-121		"	"	"	"	





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

MTBE by EPA Method 8260B Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW9A,39'-39.5' (MJK0284-08) Soil Sampled: 11/03/00 10:03 Received: 11/06/00 17:00									
Methyl tert-butyl ether	ND	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70.0-121		"	"	"	"	
MW9A,45'-45.5' (MJK0284-09) Soil Sampled: 11/03/00 10:30 Received: 11/06/00 17:00									
Methyl tert-butyl ether	ND	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		100 %	70.0-121		"	"	"	"	
MW9A,49.5'-50' (MJK0284-10) Soil Sampled: 11/03/00 10:45 Received: 11/06/00 17:00									
Methyl tert-butyl ether	ND	0.100	mg/kg	1	0110074	11/15/00	11/15/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		92.0 %	70.0-121		"	"	"	"	
MW9A,55'-55.5' (MJK0284-11) Soil Sampled: 11/03/00 11:00 Received: 11/06/00 17:00									
Methyl tert-butyl ether	ND	0.100	mg/kg	1	0110074	11/15/00	11/16/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		101 %	70.0-121		"	"	"	"	
MW9A,58.5'-59' (MJK0284-12) Soil Sampled: 11/03/00 11:30 Received: 11/06/00 17:00									
Methyl tert-butyl ether	ND	0.100	mg/kg	1	0110074	11/15/00	11/16/00	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		88.0 %	70.0-121		"	"	"	"	





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0K13007 - General Preparation

Duplicate (0K13007-DUP1)

Source: **MJK0284-12**

Prepared: 11/10/00 Analyzed: 11/13/00

Moisture	250	0.100	%		251			0.399	20	
----------	-----	-------	---	--	-----	--	--	-------	----	--





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0110054 - EPA 5030B [P/T]

Blank (0110054-BLK1)

Prepared & Analyzed: 11/09/00

Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.215		"	0.200		108	60.0-140			

Blank (0110054-BLK2)

Prepared & Analyzed: 11/10/00

Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.245		"	0.200		123	60.0-140			

Blank (0110054-BLK3)

Prepared & Analyzed: 11/13/00

Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.257		"	0.200		128	60.0-140			

Blank (0110054-BLK4)

Prepared & Analyzed: 11/15/00

Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	0.238		"	0.200		119	60.0-140			





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0110054 - EPA 5030B [P/T]

LCS (0110054-BS1)

Prepared & Analyzed: 11/09/00

Benzene	0.235	0.00500	mg/kg	0.200		117	70.0-130			
Toluene	0.210	0.00500	"	0.200		105	70.0-130			
Ethylbenzene	0.214	0.00500	"	0.200		107	70.0-130			
Xylenes (total)	0.605	0.00500	"	0.600		101	70.0-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.236		"	0.200		118	60.0-140			

LCS (0110054-BS2)

Prepared & Analyzed: 11/09/00

Purgeable Hydrocarbons as Gasoline	4.87	1.00	mg/kg	5.00		97.4	70.0-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.225		"	0.200		112	60.0-140			

LCS (0110054-BS3)

Prepared & Analyzed: 11/10/00

Benzene	0.242	0.00500	mg/kg	0.200		121	70.0-130			
Toluene	0.224	0.00500	"	0.200		112	70.0-130			
Ethylbenzene	0.230	0.00500	"	0.200		115	70.0-130			
Xylenes (total)	0.662	0.00500	"	0.600		110	70.0-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.242		"	0.200		121	60.0-140			

LCS (0110054-BS4)

Prepared & Analyzed: 11/10/00

Purgeable Hydrocarbons as Gasoline	4.51	1.00	mg/kg	5.00		90.2	70.0-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.201		"	0.200		101	60.0-140			

LCS (0110054-BS5)

Prepared & Analyzed: 11/13/00

Benzene	0.235	0.00500	mg/kg	0.200		117	70.0-130			
Toluene	0.217	0.00500	"	0.200		108	70.0-130			
Ethylbenzene	0.225	0.00500	"	0.200		112	70.0-130			
Xylenes (total)	0.634	0.00500	"	0.600		106	70.0-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	0.248		"	0.200		124	60.0-140			





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0110054 - EPA 5030B [P/T]

LCS (0110054-BS6)

Prepared & Analyzed: 11/13/00

Purgeable Hydrocarbons as Gasoline	4.83	1.00	mg/kg	5.00		96.6	70.0-130			
Surrogate: a,a,a-Trifluorotoluene	0.211		"	0.200		105	60.0-140			

LCS (0110054-BS7)

Prepared & Analyzed: 11/15/00

Benzene	0.242	0.00500	mg/kg	0.200		121	70.0-130			
Toluene	0.222	0.00500	"	0.200		111	70.0-130			
Ethylbenzene	0.229	0.00500	"	0.200		114	70.0-130			
Xylenes (total)	0.660	0.00500	"	0.600		110	70.0-130			
Surrogate: a,a,a-Trifluorotoluene	0.236		"	0.200		118	60.0-140			

LCS (0110054-BS8)

Prepared & Analyzed: 11/15/00

Purgeable Hydrocarbons as Gasoline	4.41	1.00	mg/kg	5.00		88.2	70.0-130			
Surrogate: a,a,a-Trifluorotoluene	0.222		"	0.200		111	60.0-140			

Matrix Spike (0110054-MS1)

Source: L011097-01

Prepared: 11/09/00 Analyzed: 11/10/00

Purgeable Hydrocarbons as Gasoline	5.93	1.00	mg/kg	5.00	ND	119	60.0-140			
Surrogate: a,a,a-Trifluorotoluene	0.176		"	0.200		88.0	60.0-140			

Matrix Spike Dup (0110054-MSD1)

Source: L011097-01

Prepared: 11/09/00 Analyzed: 11/10/00

Purgeable Hydrocarbons as Gasoline	4.91	1.00	mg/kg	5.00	ND	98.2	60.0-140	19.2	25.0	
Surrogate: a,a,a-Trifluorotoluene	0.166		"	0.200		83.0	60.0-140			

Batch 0110078 - EPA 5030B [P/T]

Blank (0110078-BLK1)

Prepared & Analyzed: 11/14/00

Purgeable Hydrocarbons as Gasoline	ND	1.00	mg/kg							
Benzene	ND	0.00500	"							
Toluene	ND	0.00500	"							
Ethylbenzene	ND	0.00500	"							
Xylenes (total)	ND	0.00500	"							
Surrogate: a,a,a-Trifluorotoluene	0.231		"	0.200		116	60.0-140			





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA, 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 0110078 - EPA 5030B [P/T]

LCS (0110078-BS1)

Prepared & Analyzed: 11/14/00

Benzene	0.225	0.00500	mg/kg	0.200		112	70.0-130			
Toluene	0.210	0.00500	"	0.200		105	70.0-130			
Ethylbenzene	0.212	0.00500	"	0.200		106	70.0-130			
Xylenes (total)	0.612	0.00500	"	0.600		102	70.0-130			
Surrogate: a,a,a-Trifluorotoluene	0.219		"	0.200		109	60.0-140			

LCS (0110078-BS2)

Prepared & Analyzed: 11/14/00

Purgeable Hydrocarbons as Gasoline	4.70	1.00	mg/kg	5.00		94.0	70.0-130			
Surrogate: a,a,a-Trifluorotoluene	0.224		"	0.200		112	60.0-140			

Matrix Spike (0110078-MS1)

Source: L011134-01

Prepared & Analyzed: 11/14/00

Benzene	0.209	0.00500	mg/kg	0.200	ND	105	60.0-140			
Toluene	0.192	0.00500	"	0.200	ND	96.0	60.0-140			
Ethylbenzene	0.197	0.00500	"	0.200	ND	98.5	60.0-140			
Xylenes (total)	0.561	0.00500	"	0.600	ND	93.5	60.0-140			
Surrogate: a,a,a-Trifluorotoluene	0.202		"	0.200		101	60.0-140			

Matrix Spike Dup (0110078-MSD1)

Source: L011134-01

Prepared & Analyzed: 11/14/00

Benzene	0.198	0.00500	mg/kg	0.200	ND	99.0	60.0-140	5.88	25.0	
Toluene	0.182	0.00500	"	0.200	ND	91.0	60.0-140	5.35	25.0	
Ethylbenzene	0.187	0.00500	"	0.200	ND	93.5	60.0-140	5.21	25.0	
Xylenes (total)	0.538	0.00500	"	0.600	ND	89.7	60.0-140	4.15	25.0	
Surrogate: a,a,a-Trifluorotoluene	0.193		"	0.200		96.5	60.0-140			





ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek CA. 94596	Project: Exxon Project Number: 7-3399 Project Manager: Christa Marting	Reported: 11/27/00 14:56
---	--	------------------------------------

**MTBE by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 0110074 - EPA 5030B [P/T]										
Blank (0110074-BLK2) Prepared: 11/15/00 Analyzed: 11/16/00										
Methyl tert-butyl ether	ND	0.100	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	2.49		"	2.50		99.6	70.0-121			
LCS (0110074-BS2) Prepared: 11/15/00 Analyzed: 11/16/00										
Methyl tert-butyl ether	2.76	0.100	mg/kg	2.50		110	70.0-130			
Surrogate: 1,2-Dichloroethane-d4	2.79		"	2.50		112	70.0-121			
Matrix Spike (0110074-MS1) Source: L011122-20 Prepared & Analyzed: 11/15/00										
Methyl tert-butyl ether	2.63	0.100	mg/kg	2.50	ND	105	60.0-140			
Surrogate: 1,2-Dichloroethane-d4	2.41		"	2.50		96.4	70.0-121			
Matrix Spike Dup (0110074-MSD1) Source: L011122-20 Prepared & Analyzed: 11/15/00										
Methyl tert-butyl ether	2.55	0.100	mg/kg	2.50	ND	102	60.0-140	2.90	25.0	
Surrogate: 1,2-Dichloroethane-d4	2.28		"	2.50		91.2	70.0-121			





ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek CA. 94596

Project: Exxon
Project Number: 7-3399
Project Manager: Christa Marting

Reported:
11/27/00 14:56

Notes and Definitions

- P-01 Chromatogram Pattern: Gasoline C6-C12
- P-02 Chromatogram Pattern: Weathered Gasoline C6-C12
- P-03 Chromatogram Pattern: Unidentified Hydrocarbons C6-C12
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
- DET 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





Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: <u>ETIC Engineering</u>		Page <u>1</u> of <u>2</u>
Address: <u>144 Mayhew Way, Walnut Creek, CA</u>		Site Location: <u>2991 Hopyard Road</u>
Project #: <u>XXXXXXXXXX BMC</u>	Consultant Project #: <u>TM3399.3</u>	Consultant Work Release #: <u>20002958</u>
Project Contact: <u>Joe Muehlicke</u>	Phone #: <u>(925) 977-7914</u>	Laboratory Work Release #:
EXXON Contact: <u>Darin Rouse</u>	Phone #: <u>(925) 246-8768</u>	EXXON RAS #: <u>7-3399</u>
Sampled by (print): <u>Bryan Campbell</u>	Sampler's Signature: <u>[Signature]</u>	
Shipment Method: <u>Drop off</u>	Air Bill #:	<u>(MJK0284)</u>

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	ANALYSIS REQUIRED					Temperature: _____		
							TPH/Gas BTEX/8015/8020	TPH/Diesel EPA 8015	TRPH S.M. 5520	MTSE by EPA 8260	Percent Moisture	Inbound Seal: Yes No	Outbound Seal: Yes No	
MW9A, 11'-11.5'	11/3/00	0915	Soil	None		01	X				X	X		
MW9A, 15.5'-16'		0920				02	X				X	X		
MW9A, 21'-21.5'		0930				03	X				X	X		
MW9A, 26'-26.5'		0945				04	X				X	X		
MW9A, 31'-31.5'		0950				05	X				X	X		
MW9A, 35'-35.5'		0953				06	X				X	X		
MW9A, 39.5'-38'		1000				07	X				X	X		
MW9A, 39'-39.5'		1003				08	X				X	X		
MW9A, 45'-45.5'		1030				09								

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Bryan Campbell	11/6/00	1700	Mark [Signature] / Sequoia	11/6	1700	
Mark [Signature]	11/6	1700	Mark [Signature] / SEQ	11/6	1700	
Chifaura / Capitol Bay	11/7		Chifaura / Capitol Bay	11/7	11:20	

Pink - Client
Yellow - Sequoia
White - Sequoi

ALL OTHER INFO TO BE MAINTAINED IN SEPARATE FILE



Sec. Analyt.
680 Chesapeake Dr.
Redwood City, CA 94063
(650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: <u>FTIC Engineering</u>		Page <u>2</u> of <u>2</u>
Address: <u>144 Mayhew Way, Walnut Creek, CA</u>		Site Location: <u>2991 Hopwood Road</u>
Project #:	Consultant Project #: <u>TM3399.3</u>	Consultant Work Release #: <u>20002958</u>
Project Contact: <u>Joe Muehlick</u>	Phone #: <u>(925) 977-7914</u>	Laboratory Work Release #:
EXXON Contact: <u>Darin Rouse</u>	Phone #: <u>(925) 246-8768</u>	EXXON RAS #: <u>7-3399</u>
Sampled by (print): <u>Bryan Campbell</u>	Sampler's Signature: <u>[Signature]</u>	
Shipment Method: <u>Drop off</u>	Air Bill #:	<u>MJK0284</u>

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas			MTRB by EPA 8260	Percent Mo. Stone	Temperature: _____	
							BTEX/ 8015/ 8020	Diesel EPA 8015	TRPH S.M. 5520			Inbound Seal: Yes No	Outbound Seal: Yes No
<u>MW9A, 49.5'-52'</u>	<u>11/3/00</u>	<u>1045</u>	<u>Soil</u>	<u>None</u>	<u>1</u>	<u>10</u>							
<u>MW9A, 55'-55.5'</u>	<u>↓</u>	<u>1100</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>11</u>	<u>X</u>			<u>X</u>	<u>X</u>		
<u>MW9A, 58.5'-59'</u>	<u>↓</u>	<u>1130</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>12</u>	<u>X</u>			<u>X</u>	<u>X</u>		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Bryan Campbell</u>	<u>11/6/00</u>	<u>1700</u>	<u>Mark Calk / Sequoia</u>	<u>11/6</u>	<u>1700</u>	
<u>Mark Calk / Seq</u>	<u>11/6</u>	<u>1700</u>	<u>Mike Gonia / SEQ</u>	<u>11/6</u>	<u>1700</u>	
<u>Darin Rouse / Capital Bay</u>	<u>11/7</u>		<u>Christina / Capital Bay</u>	<u>11/7</u>	<u>11:10</u>	

Pink - Client

Yellow - Sequoia

White - Sequoia



Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

15 January, 2001

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

RE: Exxon
Sequoia Report: MKA0089

Enclosed are the results of analyses for samples received by the laboratory on 01/03/01 14:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Project Manager

CA ELAP Certificate #1210

Received

JAN 18 2001

ETIC Engineering Inc.





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-5D	MKA0089-01	Water	12/28/00 09:10	01/03/01 14:15
MW-5S	MKA0089-02	Water	12/28/00 09:25	01/03/01 14:15
MW-9A	MKA0089-03	Water	12/28/00 13:20	01/03/01 14:15
MW-13	MKA0089-04	Water	12/28/00 09:45	01/03/01 14:15
MW-12A	MKA0089-05	Water	12/28/00 09:55	01/03/01 14:15
MW-14	MKA0089-06	Water	12/28/00 08:55	01/03/01 14:15
MW-4	MKA0089-07	Water	12/28/00 12:35	01/03/01 14:15
PMW-2	MKA0089-08	Water	12/28/00 14:00	01/03/01 14:15
PMW-3	MKA0089-09	Water	12/28/00 13:40	01/03/01 14:15
MW-1	MKA0089-10	Water	12/28/00 13:45	01/03/01 14:15
MW-7	MKA0089-11	Water	12/28/00 12:45	01/03/01 14:15
MW-8	MKA0089-12	Water	12/28/00 11:00	01/03/01 14:15
MW-11	MKA0089-13	Water	12/28/00 11:45	01/03/01 14:15
VR-1	MKA0089-14	Water	12/28/00 11:15	01/03/01 14:15
VR-2	MKA0089-15	Water	12/28/00 13:00	01/03/01 14:15
MW-10	MKA0089-16	Water	12/28/00 11:10	01/03/01 14:15
PMW-5	MKA0089-17	Water	12/28/00 12:50	01/03/01 14:15
OW-2	MKA0089-18	Water	12/28/00 10:30	01/03/01 14:15

Sequoia Analytical - Morgan Hill

Ron Chew, Project Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-----------------	-------	----------	-------	----------	----------	--------	-------

MW-5D (MKA0089-01) Water Sampled: 12/28/00 09:10 Received: 01/03/01 14:15

Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10004	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %	70-130		"	"	"	"	

MW-5S (MKA0089-02) Water Sampled: 12/28/00 09:25 Received: 01/03/01 14:15

Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10004	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %	70-130		"	"	"	"	

MW-9A (MKA0089-03) Water Sampled: 12/28/00 13:20 Received: 01/03/01 14:15

Purgeable Hydrocarbons	1040	100	ug/l	2	1A10002	01/10/01	01/10/01	DHS LUFT	P-01
Benzene	14.5	1.00	"	"	"	"	"	"	
Toluene	3.75	1.00	"	"	"	"	"	"	
Ethylbenzene	26.4	1.00	"	"	"	"	"	"	
Xylenes (total)	37.4	1.00	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130		"	"	"	"	

MW-13 (MKA0089-04) Water Sampled: 12/28/00 09:45 Received: 01/03/01 14:15

Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10004	01/10/01	01/10/01	DHS LUFT	
Benzene	1.19	0.500	"	"	"	"	"	"	
Toluene	1.05	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.25	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		103 %	70-130		"	"	"	"	





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-12A (MKA0089-05) Water Sampled: 12/28/00 09:55 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10004	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.7 %		70-130	"	"	"	"	
MW-14 (MKA0089-06) Water Sampled: 12/28/00 08:55 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10004	01/10/01	01/10/01	DHS LUFT	
Benzene	2.04	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	0.740	0.500	"	"	"	"	"	"	
Xylenes (total)	1.78	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		104 %		70-130	"	"	"	"	
MW-4 (MKA0089-07) Water Sampled: 12/28/00 12:35 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10004	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.4 %		70-130	"	"	"	"	
PMW-2 (MKA0089-08) Water Sampled: 12/28/00 14:00 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	445	50.0	ug/l	1	1A10004	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		101 %		70-130	"	"	"	"	





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PMW-3 (MKA0089-09) Water Sampled: 12/28/00 13:40 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10004	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		102 %		70-130	"	"	"	"	
MW-1 (MKA0089-10) Water Sampled: 12/28/00 13:45 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10002	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.0 %		70-130	"	"	"	"	
MW-7 (MKA0089-11) Water Sampled: 12/28/00 12:45 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10002	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		96.9 %		70-130	"	"	"	"	
MW-8 (MKA0089-12) Water Sampled: 12/28/00 11:00 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10002	01/10/01	01/10/01	DHS LUFT	
Benzene	1.03	0.500	"	"	"	"	"	"	
Toluene	1.25	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	1.76	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		99.9 %		70-130	"	"	"	"	





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-11 (MKA0089-13) Water Sampled: 12/28/00 11:45 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10002	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		97.1 %	70-130		"	"	"	"	
VR-1 (MKA0089-14) Water Sampled: 12/28/00 11:15 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10002	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		89.5 %	70-130		"	"	"	"	
VR-2 (MKA0089-15) Water Sampled: 12/28/00 13:00 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10002	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		93.2 %	70-130		"	"	"	"	
MW-10 (MKA0089-16) Water Sampled: 12/28/00 11:10 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10002	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Xylenes (total)	ND	0.500	"	"	"	"	"	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>		94.7 %	70-130		"	"	"	"	





ETIC Engineering Inc - WC (Exxon) 2285 Morello Avenue Pleasant Hill CA. 94523	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Reported: 01/15/01 19:12
---	---	-----------------------------

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PMW-5 (MKA0089-17) Water Sampled: 12/28/00 12:50 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A11003	01/11/01	01/11/01	DHS LUFT	
Benzene	1.93	0.500	"	"	"	"	"	"	"
Toluene	ND	0.500	"	"	"	"	"	"	"
Ethylbenzene	ND	0.500	"	"	"	"	"	"	"
Xylenes (total)	ND	0.500	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		85.6 %	70-130		"	"	"	"	"
OW-2 (MKA0089-18) Water Sampled: 12/28/00 10:30 Received: 01/03/01 14:15									
Purgeable Hydrocarbons	ND	50.0	ug/l	1	1A10002	01/10/01	01/10/01	DHS LUFT	
Benzene	ND	0.500	"	"	"	"	"	"	"
Toluene	ND	0.500	"	"	"	"	"	"	"
Ethylbenzene	ND	0.500	"	"	"	"	"	"	"
Xylenes (total)	ND	0.500	"	"	"	"	"	"	"
<i>Surrogate: a,a,a-Trifluorotoluene</i>		95.2 %	70-130		"	"	"	"	"





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**MTBE by EPA Method 8260B
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5D (MKA0089-01) Water Sampled: 12/28/00 09:10 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	76-114		"	"	"	"	
MW-5S (MKA0089-02) Water Sampled: 12/28/00 09:25 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		102 %	76-114		"	"	"	"	
MW-9A (MKA0089-03) Water Sampled: 12/28/00 13:20 Received: 01/03/01 14:15									
Methyl tert-butyl ether	65.5	5.00	ug/l	2.5	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		102 %	76-114		"	"	"	"	
MW-13 (MKA0089-04) Water Sampled: 12/28/00 09:45 Received: 01/03/01 14:15									
Methyl tert-butyl ether	2.17	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		99.0 %	76-114		"	"	"	"	
MW-12A (MKA0089-05) Water Sampled: 12/28/00 09:55 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		104 %	76-114		"	"	"	"	
MW-14 (MKA0089-06) Water Sampled: 12/28/00 08:55 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		101 %	76-114		"	"	"	"	
MW-4 (MKA0089-07) Water Sampled: 12/28/00 12:35 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010029	01/11/01	01/11/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		102 %	76-114		"	"	"	"	





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**MTBE by EPA Method 8260B
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PMW-2 (MKA0089-08) Water Sampled: 12/28/00 14:00 Received: 01/03/01 14:15									
Methyl tert-butyl ether	234	6.66	ug/l	3.33	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		95.4 %	76-114		"	"	"	"	
PMW-3 (MKA0089-09) Water Sampled: 12/28/00 13:40 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		101 %	76-114		"	"	"	"	
MW-1 (MKA0089-10) Water Sampled: 12/28/00 13:45 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		98.4 %	76-114		"	"	"	"	
MW-7 (MKA0089-11) Water Sampled: 12/28/00 12:45 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		94.8 %	76-114		"	"	"	"	
MW-8 (MKA0089-12) Water Sampled: 12/28/00 11:00 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		104 %	76-114		"	"	"	"	
MW-11 (MKA0089-13) Water Sampled: 12/28/00 11:45 Received: 01/03/01 14:15									
Methyl tert-butyl ether	5.71	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		100 %	76-114		"	"	"	"	
VR-1 (MKA0089-14) Water Sampled: 12/28/00 11:15 Received: 01/03/01 14:15									
Methyl tert-butyl ether	200	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		96.8 %	76-114		"	"	"	"	





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**MTBE by EPA Method 8260B
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
VR-2 (MKA0089-15) Water Sampled: 12/28/00 13:00 Received: 01/03/01 14:15									
Methyl tert-butyl ether	10.6	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	76-114		"	"	"	"	
MW-10 (MKA0089-16) Water Sampled: 12/28/00 11:10 Received: 01/03/01 14:15									
Methyl tert-butyl ether	ND	2.00	ug/l	1	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	76-114		"	"	"	"	
PMW-5 (MKA0089-17) Water Sampled: 12/28/00 12:50 Received: 01/03/01 14:15									
Methyl tert-butyl ether	919	10.0	ug/l	5	1010034	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		104 %	76-114		"	"	"	"	
OW-2 (MKA0089-18) Water Sampled: 12/28/00 10:30 Received: 01/03/01 14:15									
Methyl tert-butyl ether	4520	50.0	ug/l	25	1010040	01/10/01	01/10/01	EPA 8260A	
Surrogate: 1,2-Dichloroethane-d4		108 %	76-114		"	"	"	"	





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1A10002 - EPA 5030B [P/T]

Blank (1A10002-BLK1)

Prepared & Analyzed: 01/10/01

Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.49		"	10.0		94.9	70-130			

LCS (1A10002-BS1)

Prepared & Analyzed: 01/10/01

Purgeable Hydrocarbons	248	50.0	ug/l	250		99.2	70-130			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.19		"	10.0		91.9	70-130			

Matrix Spike (1A10002-MS1)

Source: MKA0089-10

Prepared & Analyzed: 01/10/01

Purgeable Hydrocarbons	258	50.0	ug/l	250	ND	103	60-140			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.99		"	10.0		99.9	70-130			

Matrix Spike Dup (1A10002-MSD1)

Source: MKA0089-10

Prepared & Analyzed: 01/10/01

Purgeable Hydrocarbons	256	50.0	ug/l	250	ND	102	60-140	0.778	25	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	9.60		"	10.0		96.0	70-130			

Batch 1A10004 - EPA 5030B [P/T]

Blank (1A10004-BLK1)

Prepared & Analyzed: 01/10/01

Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	10.2		"	10.0		102	70-130			





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1A10004 - EPA 5030B [P/T]

LCS (1A10004-BS1)

Prepared & Analyzed: 01/10/01

Benzene	10.8	0.500	ug/l	10.0		108	70-130			
Toluene	10.4	0.500	"	10.0		104	70-130			
Ethylbenzene	10.2	0.500	"	10.0		102	70-130			
Xylenes (total)	31.4	0.500	"	30.0		105	70-130			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.1</i>		"	<i>10.0</i>		<i>101</i>	<i>70-130</i>			

Matrix Spike (1A10004-MS1)

Source: MKA0089-01

Prepared & Analyzed: 01/10/01

Benzene	11.0	0.500	ug/l	10.0	ND	110	60-140			
Toluene	10.5	0.500	"	10.0	ND	105	60-140			
Ethylbenzene	10.4	0.500	"	10.0	ND	104	60-140			
Xylenes (total)	31.6	0.500	"	30.0	ND	105	60-140			
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.2</i>		"	<i>10.0</i>		<i>102</i>	<i>70-130</i>			

Matrix Spike Dup (1A10004-MSD1)

Source: MKA0089-01

Prepared & Analyzed: 01/10/01

Benzene	10.9	0.500	ug/l	10.0	ND	109	60-140	0.913	25	
Toluene	10.4	0.500	"	10.0	ND	104	60-140	0.957	25	
Ethylbenzene	10.3	0.500	"	10.0	ND	103	60-140	0.966	25	
Xylenes (total)	31.4	0.500	"	30.0	ND	105	60-140	0.635	25	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>10.1</i>		"	<i>10.0</i>		<i>101</i>	<i>70-130</i>			

Batch 1A11003 - EPA 5030B [P/T]

Blank (1A11003-BLK1)

Prepared & Analyzed: 01/11/01

Purgeable Hydrocarbons	ND	50.0	ug/l							
Benzene	ND	0.500	"							
Toluene	ND	0.500	"							
Ethylbenzene	ND	0.500	"							
Xylenes (total)	ND	0.500	"							
<i>Surrogate: a,a,a-Trifluorotoluene</i>	<i>8.95</i>		"	<i>10.0</i>		<i>89.5</i>	<i>70-130</i>			





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT - Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1A11003 - EPA 5030B [P/T]

LCS (1A11003-BS1)

Prepared & Analyzed: 01/11/01

Purgeable Hydrocarbons	249	50.0	ug/l	250		99.6	70-130			
Surrogate: <i>a,a,a-Trifluorotoluene</i>	10.9		"	10.0		109	70-130			

Matrix Spike (1A11003-MS1)

Source: MKA0135-01

Prepared & Analyzed: 01/11/01

Purgeable Hydrocarbons	256	50.0	ug/l	250	ND	102	60-140			
Surrogate: <i>a,a,a-Trifluorotoluene</i>	10.6		"	10.0		106	70-130			

Matrix Spike Dup (1A11003-MSD1)

Source: MKA0135-01

Prepared & Analyzed: 01/11/01

Purgeable Hydrocarbons	229	50.0	ug/l	250	ND	91.6	60-140	11.1	25	
Surrogate: <i>a,a,a-Trifluorotoluene</i>	11.0		"	10.0		110	70-130			





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

MTBE by EPA Method 8260B - Quality Control Sequoia Analytical - San Carlos

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	-----------	-------	-----	-----------	-------

Batch 1010029 - EPA 5030B [P/T]

Blank (1010029-BLK1)

Prepared & Analyzed: 01/08/01

Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	49.2		"	50.0		98.4	76-114			

Blank (1010029-BLK2)

Prepared & Analyzed: 01/11/01

Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	49.4		"	50.0		98.8	76-114			

LCS (1010029-BS1)

Prepared & Analyzed: 01/08/01

Methyl tert-butyl ether	41.4	2.00	ug/l	50.0		82.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	49.1		"	50.0		98.2	76-114			

LCS (1010029-BS2)

Prepared & Analyzed: 01/11/01

Methyl tert-butyl ether	42.3	2.00	ug/l	50.0		84.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	50.1		"	50.0		100	76-114			

Matrix Spike (1010029-MS1)

Source: L101023-04

Prepared & Analyzed: 01/08/01

Methyl tert-butyl ether	78.3	2.00	ug/l	50.0	37.3	82.0	60-140			
Surrogate: 1,2-Dichloroethane-d4	51.5		"	50.0		103	76-114			

Matrix Spike Dup (1010029-MSD1)

Source: L101023-04

Prepared & Analyzed: 01/08/01

Methyl tert-butyl ether	75.9	2.00	ug/l	50.0	37.3	77.2	60-140	3.11	25	
Surrogate: 1,2-Dichloroethane-d4	52.6		"	50.0		105	76-114			

Batch 1010034 - EPA 5030B [P/T]

Blank (1010034-BLK1)

Prepared & Analyzed: 01/10/01

Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	50.9		"	50.0		102	76-114			





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**MTBE by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1010034 - EPA 5030B [P/T]

Blank (1010034-BLK2)

Prepared & Analyzed: 01/10/01

Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	50.1		"	50.0		100	76-114			

LCS (1010034-BS1)

Prepared & Analyzed: 01/10/01

Methyl tert-butyl ether	51.3	2.00	ug/l	50.0		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	49.6		"	50.0		99.2	76-114			

LCS (1010034-BS2)

Prepared & Analyzed: 01/10/01

Methyl tert-butyl ether	54.3	2.00	ug/l	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	52.7		"	50.0		105	76-114			

Matrix Spike (1010034-MS1)

Source: MKA0089-02

Prepared & Analyzed: 01/10/01

Methyl tert-butyl ether	49.2	2.00	ug/l	50.0	ND	98.4	60-140			
Surrogate: 1,2-Dichloroethane-d4	51.5		"	50.0		103	76-114			

Matrix Spike Dup (1010034-MSD1)

Source: MKA0089-02

Prepared & Analyzed: 01/10/01

Methyl tert-butyl ether	50.6	2.00	ug/l	50.0	ND	101	60-140	2.81	25	
Surrogate: 1,2-Dichloroethane-d4	50.9		"	50.0		102	76-114			

Batch 1010040 - EPA 5030B [P/T]

Blank (1010040-BLK1)

Prepared & Analyzed: 01/10/01

Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	50.1		"	50.0		100	76-114			

Blank (1010040-BLK2)

Prepared & Analyzed: 01/11/01

Methyl tert-butyl ether	ND	2.00	ug/l							
Surrogate: 1,2-Dichloroethane-d4	51.3		"	50.0		103	76-114			





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

**MTBE by EPA Method 8260B - Quality Control
Sequoia Analytical - San Carlos**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 1010040 - EPA 5030B [P/T]

LCS (1010040-BS1)

Prepared & Analyzed: 01/10/01

Methyl tert-butyl ether	54.3	2.00	ug/l	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	52.7		"	50.0		105	76-114			

LCS (1010040-BS2)

Prepared & Analyzed: 01/11/01

Methyl tert-butyl ether	49.1	2.00	ug/l	50.0		98.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	50.6		"	50.0		101	76-114			

Matrix Spike (1010040-MS1)

Source: L101053-03

Prepared: 01/10/01 Analyzed: 01/11/01

Methyl tert-butyl ether	54.3	2.00	ug/l	50.0	ND	109	60-140			
Surrogate: 1,2-Dichloroethane-d4	52.0		"	50.0		104	76-114			

Matrix Spike Dup (1010040-MSD1)

Source: L101053-03

Prepared: 01/10/01 Analyzed: 01/11/01

Methyl tert-butyl ether	48.6	2.00	ug/l	50.0	ND	97.2	60-140	11.1	25	
Surrogate: 1,2-Dichloroethane-d4	50.5		"	50.0		101	76-114			





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

Project: Exxon
Project Number: 7-3399
Project Manager: Joe Muehleck

Reported:
01/15/01 19:12

Notes and Definitions

P-01 Chromatogram Pattern: Gasoline C6-C12
DET 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





Sequoia Analytical
680 Chesapeake Dr.

Redwood City, CA 94063

(650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: ETIC

Page 1 of 2

Address: 2285 Morello Ave, Pleasant Hill CA 94527

Site Location: 2991 Hopeyard Rd

Project #:

Consultant Project #: UP3599.1

Consultant Work Release #: 20002958

Project Contact: Joe Muehleck

Phone #: (925) 602-4710

Laboratory Work Release #:

EXXON Contact: DARIN ROUSZ

Phone #: (925) 246-8768

EXXON RAS #: 7-3399

Sampled by (print): John Ortega

Sampler's Signature: John Ortega

Pleasanton, CA

Shipment Method:

Air Bill #:

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED

MKA0089

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBZ 8260	Temperature: _____
✓ MW-5D	12/28/00	910	H ₂ O	HCl	6	01	X			X	
✓ MW-5S		925				02	X			X	
✓ MW-9A		1320				03	X			X	
✓ MW-13		945				04	X			X	
✓ MW-12A		955				05	X			X	
✓ MW-14		855				06	X			X	
✓ MW-4		1235				07	X			X	
✓ PMW-2		1400				08	X			X	
✓ PMW-3		1340				09	X			X	

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>John Ortega</u>	1/3/01	14:15	<u>SEQUIOIA ANALYTICAL</u>	1/3/01	14:15	MTBZ by 8260
<u>Darin Rousz</u>	1/9/01		<u>SEQUIOIA ANALYTICAL</u>	1-4	0100	
<u>John Ortega</u>	1-4		<u>SEQUIOIA ANALYTICAL</u>	1-4	1938	

Pink - Client

Yellow - Sequoia

White - Sequoia



Sequoia Analytical
 680 Chesapeake Dr.
 Redwood City, CA 94063
 (650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: ETEC		Page <u>2</u> of <u>2</u>	
Address: <u>7285 Morello Ave, Pleasant Hill CA 94523</u>		Site Location: <u>2991 Hopejard Ln</u>	
Project #:	Consultant Project #: <u>UP 3399.1</u>	Consultant Work Release #: <u>20002958</u>	
Project Contact: <u>Joe Muehleck</u>	Phone #: <u>(925) 602-4710</u>	Laboratory Work Release #:	
EXXON Contact: <u>DARIN ROSSER</u>	Phone #: <u>(925) 246-8768</u>	EXXON RAS #: <u>7-3399</u>	
Sampled by (print): <u>John Ortega</u>	Sampler's Signature: <u>John Ortega</u>	<u>Pleasanton, CA</u>	
Shipment Method:	Air Bill #:		

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day)

ANALYSIS REQUIRED MKA0089

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas	TPH/Diesel	TRPH	MTBE	Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
							BTEX/8015/8020	EPA 8015	S.M. 5520	Ay 8260	
MW-1	12/28/00	1345	H ₂ O	HCL	6	10	X			X	
MW-7		1245			6	11	X			X	
MW-8		1100			6	12	X			X	
MW-11		1145			6	13	X			X	
VR-1		1115			6	14	X			X	
VR-2		1300			6	15	X			X	
MW-10		1110			6	16	X			X	
PMW-5		1250			6	17	X			X	
OW-2		1030			6	18	X			X	

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>John Ortega</u> SEQ WC	11/3/01	14:15	<u>Ronald Jensen</u> SEQ-WC	11/3/01	14:15	
<u>Ronald Jensen</u>	11/4/01			1-4	11:00	
	1-4			1-4	1938	

Pink - Client
Yellow - Sequoia
White - Sequoia



Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308
www.sequoialabs.com

November 21, 2000

Joe Muehleck
ETIC Engineering Inc - WC (Exxon)
144 Mayhew Way
Walnut Creek, CA 94596

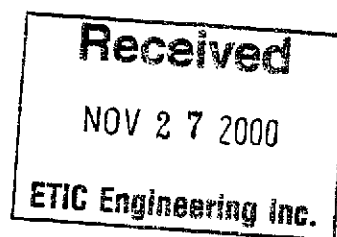
RE: Exxon 7-3399 / MJK0217

Dear Joe Muehleck

Enclosed are the results of analyses for sample(s) received by the laboratory on November 6, 2000.
If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Project Manager





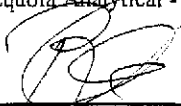
ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek, CA 94596	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Sampled: 11/3/00 Received: 11/6/00 Reported: 11/21/00 12:43
---	---	---

ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
STRP1, Composite	MJK0217-01	Soil	11/3/00

Sequoia Analytical - Morgan Hill

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.


Ron Chew, Project Manager





ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek, CA 94596	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Sampled: 11/3/00 Received: 11/6/00 Reported: 11/21/00 12:43
---	---	---

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
STRP1, Composite				MJK0217-01			Soil	
Purgeable Hydrocarbons	0K16005	11/16/00	11/17/00	DHS LUFT	50.0	597	mg/kg	P-01
Benzene	"	"	"	DHS LUFT	0.250	0.618	"	
Toluene	"	"	"	DHS LUFT	0.250	16.5	"	
Ethylbenzene	"	"	"	DHS LUFT	0.250	11.6	"	
Xylenes (total)	"	"	"	DHS LUFT	0.250	48.9	"	
<i>Surrogate: a,a,a-Trifluorotoluene</i>	"	"	"	70-130		NR	%	S-02
<i>Surrogate: 4-Bromofluorobenzene</i>	"	"	"	60-140		NR	"	S-01





ETIC Engineering Inc - WC (Exxon)	Project: Exxon	Sampled: 11/3/00
144 Mayhew Way	Project Number: 7-3399	Received: 11/6/00
Walnut Creek, CA 94596	Project Manager: Joe Muehleck	Reported: 11/21/00 12:43

**Total Metals by EPA 6000/7000 Series Methods
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
<u>STRP1, Composite</u>				<u>MJK0217-01</u>				
Lead	0K13012	11/13/00	11/14/00	EPA 6010A	10.7	ND	Soil mg/kg	





ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek, CA 94596	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Sampled: 11/3/00 Received: 11/6/00 Reported: 11/21/00 12:43
---	---	---

**Volatile Organic Compounds by EPA Method 8010B
Sequoia Analytical - Morgan Hill**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method	Reporting Limit	Result	Units	Notes*
STRP1, Composite				MJK0217-01			Soil	
Bromodichloromethane	OK17010	11/17/00	11/17/00	EPA 8010B	100	ND	ug/kg	
Bromoform	"	"	"	EPA 8010B	100	ND	"	
Bromomethane	"	"	"	EPA 8010B	200	ND	"	
Carbon tetrachloride	"	"	"	EPA 8010B	100	ND	"	
Chlorobenzene	"	"	"	EPA 8010B	100	ND	"	
Chloroethane	"	"	"	EPA 8010B	200	ND	"	
2-Chloroethylvinyl ether	"	"	"	EPA 8010B	100	ND	"	
Chloroform	"	"	"	EPA 8010B	100	ND	"	
Chloromethane	"	"	"	EPA 8010B	200	ND	"	
Dibromochloromethane	"	"	"	EPA 8010B	100	ND	"	
1,3-Dichlorobenzene	"	"	"	EPA 8010B	100	ND	"	
1,4-Dichlorobenzene	"	"	"	EPA 8010B	100	ND	"	
1,2-Dichlorobenzene	"	"	"	EPA 8010B	100	ND	"	
1,1-Dichloroethane	"	"	"	EPA 8010B	100	ND	"	
1,2-Dichloroethane	"	"	"	EPA 8010B	100	ND	"	
1,1-Dichloroethene	"	"	"	EPA 8010B	100	ND	"	
cis-1,2-Dichloroethene	"	"	"	EPA 8010B	100	ND	"	
trans-1,2-Dichloroethene	"	"	"	EPA 8010B	100	ND	"	
1,2-Dichloropropane	"	"	"	EPA 8010B	100	ND	"	
cis-1,3-Dichloropropene	"	"	"	EPA 8010B	100	ND	"	
trans-1,3-Dichloropropene	"	"	"	EPA 8010B	100	ND	"	
Methylene chloride	"	"	"	EPA 8010B	1000	ND	"	
1,1,2,2-Tetrachloroethane	"	"	"	EPA 8010B	100	ND	"	
Tetrachloroethene	"	"	"	EPA 8010B	100	ND	"	
1,1,1-Trichloroethane	"	"	"	EPA 8010B	100	ND	"	
1,1,2-Trichloroethane	"	"	"	EPA 8010B	100	ND	"	
Trichloroethene	"	"	"	EPA 8010B	100	ND	"	
Trichlorofluoromethane	"	"	"	EPA 8010B	100	ND	"	
Vinyl chloride	"	"	"	EPA 8010B	200	ND	"	
Surrogate: 4-Bromofluorobenzene	"	"	"	60-140		104	%	
1,2-Dibromoethane	"	"	"	EPA 8010B	100	ND	ug/kg	





ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek, CA 94596	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Sampled: 11/3/00 Received: 11/6/00 Reported: 11/21/00 12:43
---	---	---

**Total Purgeable Hydrocarbons (C6-C12) and BTEX by DHS LUFT/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0K16005		Date Prepared: 11/16/00			Extraction Method: EPA 5030B [P/T]					
Blank		0K16005-BLK1								
Purgeable Hydrocarbons	11/16/00			ND	mg/kg	1.00				
Benzene	"			ND	"	0.00500				
Toluene	"			ND	"	0.00500				
Ethylbenzene	"			ND	"	0.00500				
Xylenes (total)	"			ND	"	0.00500				
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.187	"	70-130	93.5			
Surrogate: 4-Bromofluorobenzene	"	0.200		0.203	"	60-140	101			
LCS		0K16005-BS1								
Purgeable Hydrocarbons	11/16/00	5.00		5.20	mg/kg	70-130	104			
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.306	"	70-130	153			
Surrogate: 4-Bromofluorobenzene	"	0.200		0.170	"	60-140	85.0			
Matrix Spike		0K16005-MS1 MJK0249-23								
Purgeable Hydrocarbons	11/16/00	5.00	ND	5.16	mg/kg	60-140	95.3			
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.132	"	70-130	66.0			
Surrogate: 4-Bromofluorobenzene	"	0.200		0.137	"	60-140	68.5			
Matrix Spike Dup		0K16005-MSD1 MJK0249-23								
Purgeable Hydrocarbons	11/16/00	5.00	ND	5.01	mg/kg	60-140	92.3	25	2.95	
Surrogate: a,a,a-Trifluorotoluene	"	0.200		0.299	"	70-130	149			
Surrogate: 4-Bromofluorobenzene	"	0.200		0.138	"	60-140	69.0			





ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek, CA 94596	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Sampled: 11/3/00 Received: 11/6/00 Reported: 11/21/00 12:43
---	---	---

**Total Metals by EPA 6000/7000 Series Methods/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0K13012			Date Prepared: 11/13/00		Extraction Method: EPA 3050B				
Blank			0K13012-BLK1						
Lead	11/14/00			ND	mg/kg		10.0		
LCS			0K13012-BS1						
Lead	11/14/00	50.0		52.2	mg/kg		80-120	104	
Matrix Spike			0K13012-MS1 MJK0372-01						
Lead	11/14/00	51.0	19.6	128	mg/kg		80-120	NR	Q-02
Matrix Spike Dup			0K13012-MSD1 MJK0372-01						
Lead	11/14/00	48.5	19.6	117	mg/kg		80-120	NR	20 8.98 Q-02





ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek, CA 94596	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Sampled: 11/3/00 Received: 11/6/00 Reported: 11/21/00 12:43
---	---	---

Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Reporting Limit Units	Recov. %	RPD Limit	RPD %	Notes*
Batch: 0K17010			Date Prepared: 11/17/00		Extraction Method: EPA 5030B [P/T]				
Blank			0K17010-BLK1						
Bromodichloromethane	11/17/00			ND	ug/kg		100		
Bromoform	"			ND	"		100		
Bromomethane	"			ND	"		200		
Carbon tetrachloride	"			ND	"		100		
Chlorobenzene	"			ND	"		100		
Chloroethane	"			ND	"		200		
2-Chloroethylvinyl ether	"			ND	"		100		
Chloroform	"			ND	"		100		
Chloromethane	"			ND	"		200		
Dibromochloromethane	"			ND	"		100		
1,3-Dichlorobenzene	"			ND	"		100		
1,4-Dichlorobenzene	"			ND	"		100		
1,2-Dichlorobenzene	"			ND	"		100		
1,1-Dichloroethane	"			ND	"		100		
1,2-Dichloroethane	"			ND	"		100		
1,1-Dichloroethene	"			ND	"		100		
cis-1,2-Dichloroethene	"			ND	"		100		
trans-1,2-Dichloroethene	"			ND	"		100		
1,2-Dichloropropane	"			ND	"		100		
cis-1,3-Dichloropropene	"			ND	"		100		
trans-1,3-Dichloropropene	"			ND	"		100		
Methylene chloride	"			ND	"		1000		
1,1,2,2-Tetrachloroethane	"			ND	"		100		
Tetrachloroethene	"			ND	"		100		
1,1,1-Trichloroethane	"			ND	"		100		
1,1,2-Trichloroethane	"			ND	"		100		
Trichloroethene	"			ND	"		100		
Trichlorofluoromethane	"			ND	"		100		
Vinyl chloride	"			ND	"		200		
Surrogate: 4-Bromofluorobenzene	"	250		244	"		60-140	97.6	
1,2-Dibromoethane	"			ND	"		100		
LCS			0K17010-BS1						
Chlorobenzene	11/17/00	250		271	ug/kg		70-130	108	
1,1-Dichloroethene	"	250		269	"		70-130	108	
Trichloroethene	"	250		303	"		70-130	121	
Surrogate: 4-Bromofluorobenzene	"	250		220	"		60-140	88.0	





ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek, CA 94596	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Sampled: 11/3/00 Received: 11/6/00 Reported: 11/21/00 12:43
---	---	---

**Volatile Organic Compounds by EPA Method 8010B/Quality Control
Sequoia Analytical - Morgan Hill**

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Matrix Spike		0K17010-MS1 MJK0217-01								
Chlorobenzene	11/17/00	250	ND	260	ug/kg	60-140	104			
1,1-Dichloroethene	"	250	ND	233	"	60-140	93.2			
Trichloroethene	"	250	ND	297	"	60-140	119			
Surrogate: 4-Bromofluorobenzene	"	250		196	"	60-140	78.4			
Matrix Spike Dup		0K17010-MSD1 MJK0217-01								
Chlorobenzene	11/17/00	250	ND	260	ug/kg	60-140	104	25	0	
1,1-Dichloroethene	"	250	ND	219	"	60-140	87.6	200	6.19	
Trichloroethene	"	250	ND	273	"	60-140	109	25	8.42	
Surrogate: 4-Bromofluorobenzene	"	250		210	"	60-140	84.0			





ETIC Engineering Inc - WC (Exxon) 144 Mayhew Way Walnut Creek, CA 94596	Project: Exxon Project Number: 7-3399 Project Manager: Joe Muehleck	Sampled: 11/3/00 Received: 11/6/00 Reported: 11/21/00 12:43
---	---	---

Notes and Definitions

#	Note
---	------

- P-01 Chromatogram Pattern: Gasoline C6-C12
- Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- Recov. Recovery
- RPD Relative Percent Difference





680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: ETIC Engineering Page 1 of 1

Address: <u>144 Mayhew Way, Walnut Creek, CA 94596</u>		Site Location: <u>2991 Hopkins Road</u>
Project #: <u>7-33993 - BMC</u>	Consultant Project #: <u>TM3399.3</u>	Consultant Work Release #: <u>20002958</u>
Project Contact: <u>Joe Muehlich</u>	Phone #: <u>(925) 977-7914</u>	Laboratory Work Release #:
EXXON Contact: <u>Darin Rouse</u>	Phone #: <u>(925) 246-8768</u>	EXXON RAS #: <u>7-3399</u>
Sampled by (print): <u>Bryan Campbell</u>	Sampler's Signature: <u>[Signature]</u>	
Shipment Method: <u>Drop off</u>	Air Bill #:	

TAT: 24 hr 48 hr 72 hr 96 hr Standard (10 day) ANALYSIS REQUIRED MSKO 217

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	Total Lead 60106	EPA 8010*	Temperature: _____
<u>STRP1, Composite</u>	<u>11/3/00</u>	<u>1446</u>	<u>Soil</u>	<u>None</u>	<u>1</u>	<u>01</u>	<u>X</u>			<u>X</u>	<u>X</u>	Inbound Seal: Yes No Outbound Seal: Yes No

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
<u>Bryan Campbell</u>	<u>11/6/00</u>	<u>1700</u>	<u>Mark Call / Sequoia</u>	<u>11/6</u>	<u>1700</u>	*Analyze 8010 only if TPH is > 50ppm.
<u>Mark Call</u>	<u>11/6</u>	<u>1631700</u>	<u>Mike Gouin / SEQ</u>	<u>11/6</u>	<u>1700</u>	
<u>Chris Jensen / Capital Bay</u>	<u>11/7</u>		<u>Chris Jensen / Capital Bay</u>	<u>11/7</u>	<u>11:10</u>	

HARRY 11/19/00 11/7 1930

Pink - Client
Yellow - Sequoia
White - Sequoia

Appendix G

Non-hazardous Waste Manifests

- Gross Drum
 - 2.4 yards

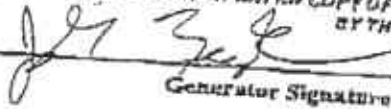
WASTE APPROVAL FORM/NON-HAZARDOUS WASTE MANIFEST
WASTE STREAM INFORMATION

Date	Tuesday, January 02, 2001		
Generator	Exxon Mobil #7-3399		
Generator Location	2991 Hopyard Rd.		
SWIC Number	02R20	Pleasanton	CA
Bill To	Dillard-Exxon		
Approval Date	1/2/01		
Expiration Date	1/2/02		
Waste Description	Soil		
Management	Direct Burial		

The above is a representation of the waste for disposal. It must be understood that management of the waste for disposal must be in compliance with the facility's permit and applicable federal, state and local regulations. The approval is based upon a review of the information provided by the generator and is contingent upon the receipt at the disposal facility of a waste material essentially equivalent in chemical composition and physical properties to that as described above.

"AT THE REQUEST OF EXXON MOBIL"

A MINIMUM OF ONE SIGNED AND COMPLETED COPY OF THIS FORM MUST ACCOMPANY EACH LOAD. ONE COPY WILL BE RETAINED BY THE VASCO ROAD LANDFILL.


 Generator Signature

1/3/01
 Date

TRANSPORTER INFORMATION

Transporter to complete this section

DTI Job # 2003/331 DL
 PO # 09-35020

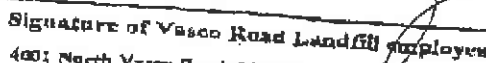
Transporter Name	DILLARD ENVIRONMENTAL SERVICES
Transporter Address	P.O. Box 579
Transporter City, State, Zip	BYRON, CA 94514
Transporter Phone Number	(925) 634-6850
Driver Name	Neruda
Truck Number	# 12
Vehicle License Number/State	9BNU213


 Driver Signature

Date

DESTINATION INFORMATION

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.


 Signature of Vasco Road Landfill employee

1-8-01
 Date

4001 North Vasco Road, Livermore - Phone: 925-447-4491 - Fax: 925-447-3086 or 925-447-4690

RECEIVED 2-9-01

NO.001284 ETIC

NON-HAZARDOUS WASTE DATA FORM

BE COMPLETED BY GENERATOR

NAME Exxon Mobil EPA I.D. NO. E X E M P T

ADDRESS P.O. Box 4999

CITY, STATE, ZIP The Woodlands, TX. 77380-4999 PHONE NO. (281) 296-3655

ADDRESS SITE Site Address: #7-3399

2991 Hopwood, Newcanon, CA 94564

		WEIGHT OR VOLUME	UNITS
		<u>420</u>	<u>Gallons</u>

CONTAINERS: 8 TYPE: TANK TRUCK DRUMS DUMP TRUCK CARTONS OTHER

WASTE DESCRIPTION Waste Water/Well Water GENERATING PROCESS Well Purging/Development

COMPONENTS OF WASTE			COMPONENTS OF WASTE		
	PPM	%		PPM	%
1. <u>Water</u>		<u>99-100</u>	5. _____		
2. <u>Petroleum Hydrocarbons</u>		<u><1</u>	6. _____		
3. _____			7. _____		
4. _____			8. _____		

PROPERTIES: pH 7-9 SOLID LIQUID SLUDGE SLURRY OTHER

HANDLING INSTRUCTIONS: Wear Appropriate Proper Protective Equipment

GENERATOR CERTIFICATION: This is to certify that the above named waste materials are 100% non-hazardous and are not regulated according to either 40 CFR (USEPA) or applicable state regulations. In addition the above named waste materials are properly described, packaged, marked, labeled and are in proper condition for transportation according to all applicable regulations.

Christa G. Marting, ETIC Engineering, Inc.
 Consultant for ExxonMobil
Christa G. Marting 2/1/01
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TRANSPORTER

NAME Service Station Systems, Inc. EPA I.D. NO. C A R 0 0 0 0 0 6 0 9 8

ADDRESS 1236 N. Fifth Street SERVICE ORDER NO. _____

CITY, STATE, ZIP San Jose, CA 95112 PICK UP DATE 2-1-01

PHONE NO. 408 971-2445

TRUCK, UNIT, I.D. NO. _____
Cima Ramirez
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

TSO FACILITY

NAME Crosby and Overton, Inc. EPA I.D. NO. C A D 0 2 8 4 0 9 0 1 9

ADDRESS 1630 W. 17th Street DISPOSAL METHOD LANDFILL OTHER 15-01

CITY, STATE, ZIP LONG BEACH, CA. 90813 Tank treatment

PHONE NO. (568) 432-5445

QUANTITY: _____
Lionel Williams
 TYPED OR PRINTED FULL NAME & SIGNATURE DATE

DISCREPANCY _____

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator's US EPA ID No. *EXEMP*

Manifest Document No. *0012842/2*

22. Page

Information in the shaded areas is not required by Federal law.

23. Generator's Name

EXXON MOBIL

L. State Manifest Document Number

001284

M. State Generator's ID

24. Transporter

Company Name

CRUSBY & OVERMAN

25. US EPA ID Number

N. State Transporter's ID

O. Transporter's Phone

510633-033

26. Transporter

Company Name

CON SOLIDATED

27. US EPA ID Number

MD989660583

P. State Transporter's ID

Q. Transporter's Phone

510633-7684

28. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number) (HM)

29. Containers

30. Total Quantity

31. Unit Wt/Vol

R. Waste No.

No.	Type	Total Quantity	Unit Wt/Vol	Waste No.
a.				
b.				
c.				
d.				
e.				
f.				
g.				
h.				
i.				

S. Additional Descriptions for Materials Listed Above

T. Handling Codes for Wastes Listed Above

OWNERS AND OPERATORS OF TREATMENT STORAGE OR DISPOSAL FACILITIES

32. Special Handling Instructions and Additional Information

33. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

34. Transporter Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Date

35. Discrepancy Indication Space

For transporters and 10 minutes for treatment, storage and disposal facilities. This includes time for reviewing instructions, gathering data, and completing and reviewing the form. Send comments regarding the burden estimates, including suggestions for reducing this burden, to Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M Street, SW, Washington, DC 20460, and to the Office of Information and Regulatory Affairs, Protection Agency, 1215 Jefferson Avenue, Washington, DC 20503.