

ExxonMobil
Refining & Supply Company
Global Remediation

Darin L. Rouse
Territory Manager
Global Remediation – US Retail

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ExxonMobil
Refining & Supply

March 11, 2002

Mr. Scott Seery
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

MAR 15 2002

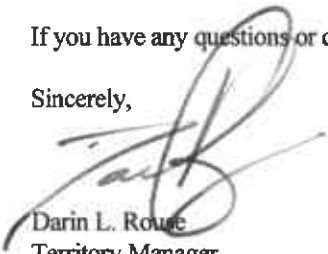
RE: Former Exxon RAS #7-3567/3192 Santa Rita Road, Pleasanton, California.

Dear Mr. Seery:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring and Sampling Report, Fourth Quarter 2001*, dated March 11, 2002, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and presents the results of groundwater monitoring and sampling activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,



Darin L. Rouse
Territory Manager

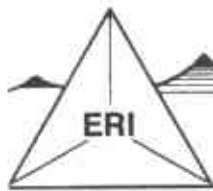
Attachment: ERI's Quarterly Groundwater Monitoring and Sampling Report, Fourth Quarter 2001, dated March 11, 2002.

cc: w/ attachment

Mr. Eddy So, California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Winson B. Low, Valero Refining Company, Environmental and Safety Affairs Department

w/o attachment

Mr. Scott R. Graham, Environmental Resolutions, Inc.



March 11, 2002
ERI 243113.R11

MAR 15 2002

Mr. Darin L. Rouse
ExxonMobil Oil Corporation
2300 Clayton Road, Suite 1250
Concord, California 94520

Subject: Quarterly Groundwater Monitoring and Sampling Report, Fourth Quarter 2001,
Former Exxon Service Station 7-3567, 3192 Santa Rita Road, Pleasanton, California.

Mr. Rouse:

At the request of ExxonMobil Oil Corporation (formerly Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) performed the groundwater monitoring and sampling event for the fourth quarter 2001 at the subject site. The purpose of quarterly monitoring is to evaluate hydrocarbon concentrations in groundwater and groundwater flow direction and hydraulic gradient. The location of the site is shown on the Site Vicinity Map (Plate 1). The configuration of the site and select site features are shown on the Generalized Site Plan (Plate 2).

GROUNDWATER MONITORING AND SAMPLING

On October 19, 2001, ERI measured depth to water (DTW) and collected groundwater samples from select monitoring wells for laboratory analysis. Work was performed in accordance with ERI's groundwater sampling protocol provided in Attachment A. Field data sheets are presented in Attachment B.

The calculated hydraulic gradient and groundwater flow direction for the lower water-bearing zone and upper water-bearing zone are presented on Plate 3 and Plate 4. Historical and recent monitoring data are summarized in Table 1.

Laboratory Analyses And Results

ERI submitted groundwater samples to Southern Petroleum Laboratories, Inc. (SPL), a California state-certified laboratory, under Chain of Custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX); methyl tertiary butyl ether (MTBE); total petroleum hydrocarbons as diesel (TPHd); and total petroleum hydrocarbons as gasoline (TPHg) using the methods listed in the notes in Table 1. The laboratory analysis report and Chain-of-Custody record are attached (Attachment B). Cumulative results of laboratory analyses of groundwater samples are summarized in Table 1. Analytical results of recent groundwater samples are presented on Plate 2.

DOCUMENT DISTRIBUTION

ERI recommends forwarding signed copies of this report to:

Mr. Scott Seery
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Mr. Eddy So
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Mr. Winson B. Low
Valero Refining Company
Environmental and Safety Affairs Department
One Valero Place, MS-06E
San Antonio, Texas 78212

LIMITATIONS

This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for ExxonMobil, and any reliance on this report by third parties shall be at such party's sole risk.

Please call Mr. Scott R. Graham, ERI'S assistant project manager for this site, (415) 382-5989 with any questions regarding this project.

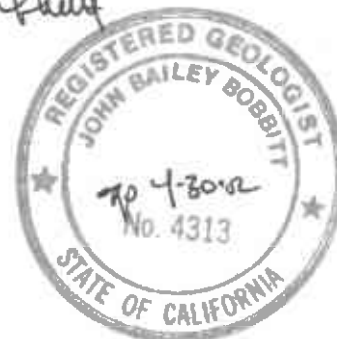
Sincerely,
Environmental Resolutions, Inc.



Scott R. Graham
Assistant Project Manager



John B. Bobbitt
R.G. 4313



Attachments: Table 1: Cumulative Groundwater Monitoring and Sampling Data

Plate 1: Site Vicinity Map

Plate 2: Generalized Site Plan

Plate 3: Lower Water Bearing Zone Map

Plate 4: Upper Water Bearing Zone Map

Attachment A: Groundwater Sampling Protocol

Attachment B: Field Data Sheets

Attachment C: Laboratory Analysis Report and Chain-of-Custody Record

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-3567
 3192 Santa Rita Road
 Pleasanton, California
 (Page 1 of 3)

Well ID# (TOC)	Sampling Date	SUBI <.....>	DTW feet	Elev. >	TPHd <	TPHg	MTBE	ug/L					VOCs
								B	T	E	X		
MW1 (340.86)	11/17/98	NLPH	21.90	318.96	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	
	03/15/99	NLPH	21.15	319.71	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	
	06/25/99	NLPH	20.34	320.52	a	<50	<2.0	<0.5	<0.5	<0.5	<0.5	---	
	09/24/99	NLPH	20.42	320.44	<50	<50	24.6	<0.5	<0.5	<0.5	<0.5	---	
	12/22/99	NLPH	21.11	319.75	<61	<50	<2	<0.5	<0.5	<0.5	<0.5	---	
	03/07/00	NLPH	14.12	326.74	57	<50	220	<0.5	<0.5	<0.5	<0.5	---	
	06/06/00	NLPH	17.79	323.07	<50	<50	5.4	<0.5	<0.5	<0.5	<0.5	---	
	07/31/00	NLPH	19.02	321.84	<50	<50	51/38d	<0.5	<0.5	<0.5	<0.5	ND**	
	10/10/00	NLPH	18.56	322.30	<50	<50	63	<0.5	<0.5	<0.5	<0.5	---	
	01/11/01	NLPH	21.43	319.43	<50	<50	110/98d	<0.5	<0.5	<0.5	<0.5	---	
	04/11/01	NLPH	19.83	321.03	960e	<50	29/33d	<0.5	<0.5	<0.5	<0.5	---	
	07/20/01	NLPH	20.50	320.36	<50	<50	27/20d	<0.5	<0.5	<0.5	<0.5	---	
10/19/01	NLPH	19.48	321.38	<50	<50	390/420d	<0.5	<0.5	<0.5	<0.5	---		
MW2 (340.61)	11/17/98	NLPH	20.42	320.19	91	<50	17/23d	1.5	<0.5	0.98	2.6	---	
	03/15/99	NLPH	28.35	312.26	90	<50	12/12.5d	0.73	1.1	2.4	2.2	---	
	06/25/99	NLPH	25.20	315.41	a	<50	<2.0	<0.5	<0.5	<0.5	<0.5	---	
	09/24/99	NLPH	23.93	316.68	<50	<50	3.06	<0.5	<0.5	<0.5	<0.5	---	
	12/22/99	NLPH	23.39	317.22	<56	<50	<2	<0.5	<0.5	<0.5	<0.5	---	
	03/07/00	NLPH	17.08	323.53	52	<50	<2	<0.5	0.80	<0.5	<0.5	---	
	06/06/00	NLPH	21.01	319.60	<50	<50	<2	<0.5	<0.5	<0.5	<0.5	---	
	07/31/00	NLPH	22.08	318.53	<50	<50	6.8/ <5d	<0.5	<0.5	<0.5	<0.5	ND**	
	10/10/00	NLPH	22.35	318.26	<50	<50	<2	<0.5	<0.5	<0.5	<0.5	---	
	01/11/01	NLPH	23.74	316.87	<50	<50	<2	0.54	<0.5	<0.5	<0.5	---	
	04/11/01	NLPH	22.34	318.27	760e	<50	<2	<0.5	1.4	<0.5	<0.5	---	
	07/20/01	NLPH	23.74	316.87	<50	<50	<2	<0.5	<0.5	<0.5	<0.5	---	
10/19/01	NLPH	22.68	317.93	<50	<50	<2	<0.5	<0.5	<0.5	<0.5	---		
MW3 (342.95)	11/17/98	NLPH	36.58	306.37	120	<50	180/220d	<0.5	<0.5	<0.5	<0.5	---	
	03/15/99	NLPH	40.01	302.94	180	<50	290/314d	<0.5	<0.5	<0.5	<0.5	---	
	06/25/99	NLPH	46.83	296.12	a	<50	107/113d	<0.5	<0.5	<0.5	<0.5	---	
	9/24/99 ^b	NLPH	47.71	295.24	---	---	---	---	---	---	---	---	
	12/22/99	NLPH	43.82	299.13	140	<50	65	<0.5	<0.5	<0.5	<0.5	---	
	03/07/00	NLPH	32.75	310.20	<50	<50	82	<0.5	0.88	<0.5	<0.5	---	
	06/06/00	NLPH	36.05	306.90	<50	<50	140	<0.5	<0.5	0.82	<0.5	---	
	07/31/00	NLPH	36.77	306.18	<50	<50	230/160d	<0.5	<0.5	<0.5	<0.5	ND**	
	10/10/00	NLPH	35.82	307.13	<50	<50	200	<0.5	<0.5	<0.5	<0.5	---	
	01/11/01	NLPH	38.08	304.87	<50	<50	280/230d	<0.5	<0.5	<0.5	<0.5	---	
	04/11/01	NLPH	36.03	306.92	1,000e	<50	240/280d	<0.5	<0.5	<0.5	<0.5	---	
	07/20/01	NLPH	36.05	306.90	<50	270	240/190d	<0.5	<0.5	<0.5	<0.5	---	
10/19/01	NLPH	34.58	308.37	<50	<50	180/190d	<0.5	<0.5	<0.5	<0.5	---		

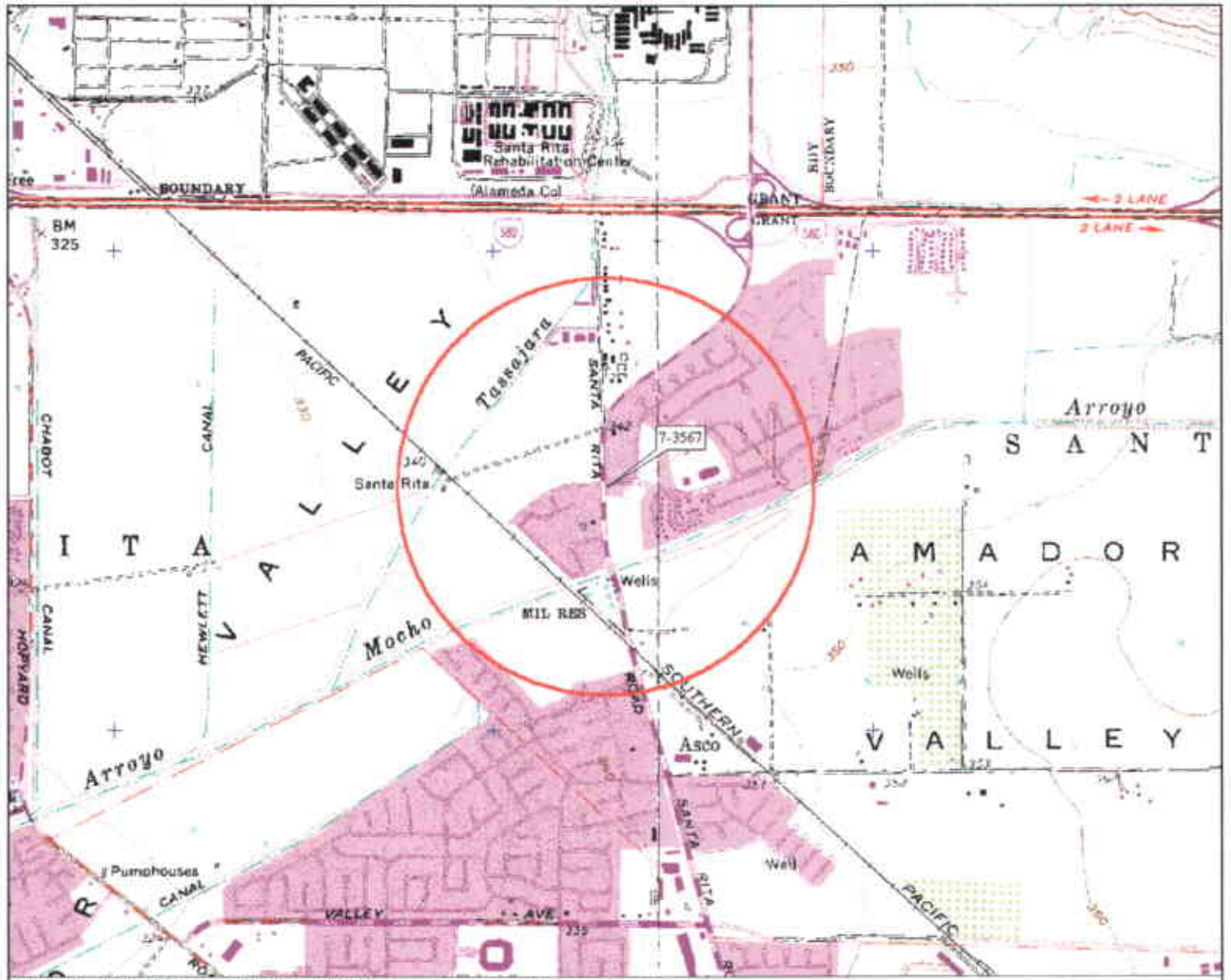
TABLE I
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3567
3192 Santa Rita Road
Pleasanton, California
(Page 2 of 3)

Well ID# (TOC)	Sampling Date	SUBJ <	DTW feet >	Elev. >	TPHd <	TPHg	MTBE	B ug/L	T	E	X	VOCs >
MW4 (342.96)	11/17/98	NLPH	50.20	292.76	72	<50	4.1/3.5d	<0.5	<0.5	<0.5	<0.5	---
	03/15/99	NLPH	47.93	295.03	91	<50	280/260d	<0.5	<0.5	<0.5	<0.5	---
	6/25/99 ^b	NLPH	48.15	294.81	---	---	---	---	---	---	---	---
	9/24/99 ^b	NLPH	49.29	293.67	---	---	---	---	---	---	---	---
	12/22/99	NLPH	49.33	293.63	b	---	---	---	---	---	---	---
	03/07/00	NLPH	49.05	293.91	190	<50	710	<0.5	0.84	<0.5	<0.5	---
	06/06/00	NLPH	49.02	293.94	110	<50	460	<0.5	<0.5	<0.5	<0.5	---
	07/31/00	NLPH	49.13	293.83	<50	<50	480/490d	<0.5	<0.5	<0.5	<0.5	ND**
	10/10/00	NLPH	40.08	302.88	c	c	c	c	c	c	c	c
	01/11/01	NLPH	36.41	306.55	110	<50	27/21d	<0.5	<0.5	<0.5	<0.5	---
	04/11/01	NLPH	36.43	306.53	870e	<50	3.6/14d	<0.5	0.56	<0.5	<0.5	---
07/20/01	f	---	---	---	---	---	---	---	---	---	---	
10/19/01	NLPH	33.67	309.29	71	<50	15/16d	<0.5	<0.5	<0.5	<0.5	---	
MW5 (342.87)	07/31/00	---	dry	dry	b	b	b	b	b	b	b	---
	10/10/00	NLPH	29.12	313.75	150	<50	4.2	<0.5	<0.5	<0.5	<0.5	---
	01/11/01	NLPH	28.89	313.98	b	b	b	b	b	b	b	---
	04/11/01	NLPH	28.23	314.64	b	b	b	b	b	b	b	---
	07/20/01	f	---	---	---	---	---	---	---	---	---	---
	10/19/01	NLPH	27.62	315.25	86	<50	3.4/5d	<0.5	<0.5	<0.5	<0.5	---
MW6 (341.05)	07/31/00	NLPH	39.72	301.33	<50	<50	<2/ <5	<0.5	<0.5	<0.5	<0.5	ND**
	10/10/00	NLPH	40.12	300.93	<50	c	c	c	c	c	c	c
	01/11/01	NLPH	46.13	294.92	<50	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	04/11/01	NLPH	45.40	295.65	b	b	b	b	b	b	b	---
	07/20/01	NLPH	41.75	299.30	<50	<50	<5	<0.3	<0.3	<0.6	<0.6	---
	10/19/01	NLPH	44.10	296.95	<50	<50	<2	<0.5	<0.5	<0.5	<0.5	---
MW7 (341.73)	07/31/00	NLPH	24.22	317.51	150	<50	13/8d	<0.5	<0.5	<0.5	<0.5	ND**
	10/10/00	NLPH	24.09	317.64	1,500	c	c	c	c	c	c	c
	01/11/01	NLPH	25.86	315.87	330	<50	6.9/7d	0.55	<0.5	<0.5	<0.5	---
	04/11/01	NLPH	24.28	317.45	980e	<250	<10	<2.5	<2.5	<2.5	<2.5	---
	07/20/01	NLPH	25.52	316.21	300	<50	8.2/6d	<0.5	<0.5	<0.5	<0.5	---
	10/19/01	NLPH	24.99	316.74	120	<50	4.9/ <5d	<0.5	<0.5	<0.5	<0.5	---
MW8 (341.44)	04/11/01	---	dry	dry	b	b	b	b	b	b	b	---
	07/20/01	---	dry	dry	b	b	b	b	b	b	b	---
	10/19/01	---	dry	dry	b	b	b	b	b	b	b	---
W-52-7-3567SB1	04/13/00	---	---	---	b	68	56	<0.5	<0.5	<0.5	<0.5	---
W-52-7-3567SB3	04/13/00	---	---	---	190	<50	290	<0.5	<0.5	<0.5	<0.5	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-3567
 3192 Santa Rita Road
 Pleasanton, California
 (Page 3 of 3)


Notes:

W-52-7-3567SB1	=	Water sample collected at 40 feet below ground surface at Exxon site 7-3567 from soil boring 1.
TOC	=	Elevation of top of well casing, in feet above mean sea level.
SUBJ	=	Results of subjective evaluation, liquid-phase hydrocarbon thickness (HT) in feet.
DTW	=	Depth to water.
Elev.	=	Elevation of groundwater in feet above mean sea level.
NLPH	=	No liquid-phase hydrocarbons present in well.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using modified EPA Method 8015.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using modified EPA Method 5030/8015 (modified).
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
VOCs	=	Volatile organic compounds analyzed using EPA Method 8260B.
ug/L	=	Micrograms per liter.
a	=	No result because of sample loss during laboratory fire.
b	=	Well contained an insufficient amount of water to collect a sample.
c	=	Samples were damaged during transportation to laboratory.
d	=	MTBE confirmed using EPA Method 8260.
e	=	Diesel-range hydrocarbons detected in bailer blank; result is suspect.
f	=	Well inaccessible.
<	=	Not detected at or above the stated laboratory method detection limit.
ND	=	Not detected at or above the stated laboratory method detection limit for the following constituents: 1,2-Dibromoethane, 1,2-Dichloroethane, 2-Nitropropane, Di-Isopropyl ether, tertiary butyl alcohol, tertiary amyl methyl ether, tertiary butyl ethyl ether.
---	=	Not analyzed/Not applicable.

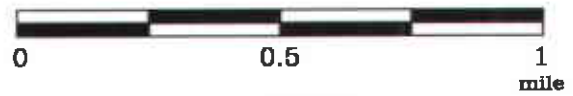


© 1999 DeLorme Topographic, ME 04066 Source Data: USGS 1:50,000 Scale 1:10,000 Detail 1:4 Datum: WGS84

EXPLANATION

 1/2-mile radius circle

APPROXIMATE SCALE



SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads



SITE VICINITY MAP

EXXON SERVICE STATION 7-3567
3192 Santa Rita Road
Pleasanton, California

PROJECT NO.

2431

PLATE

1

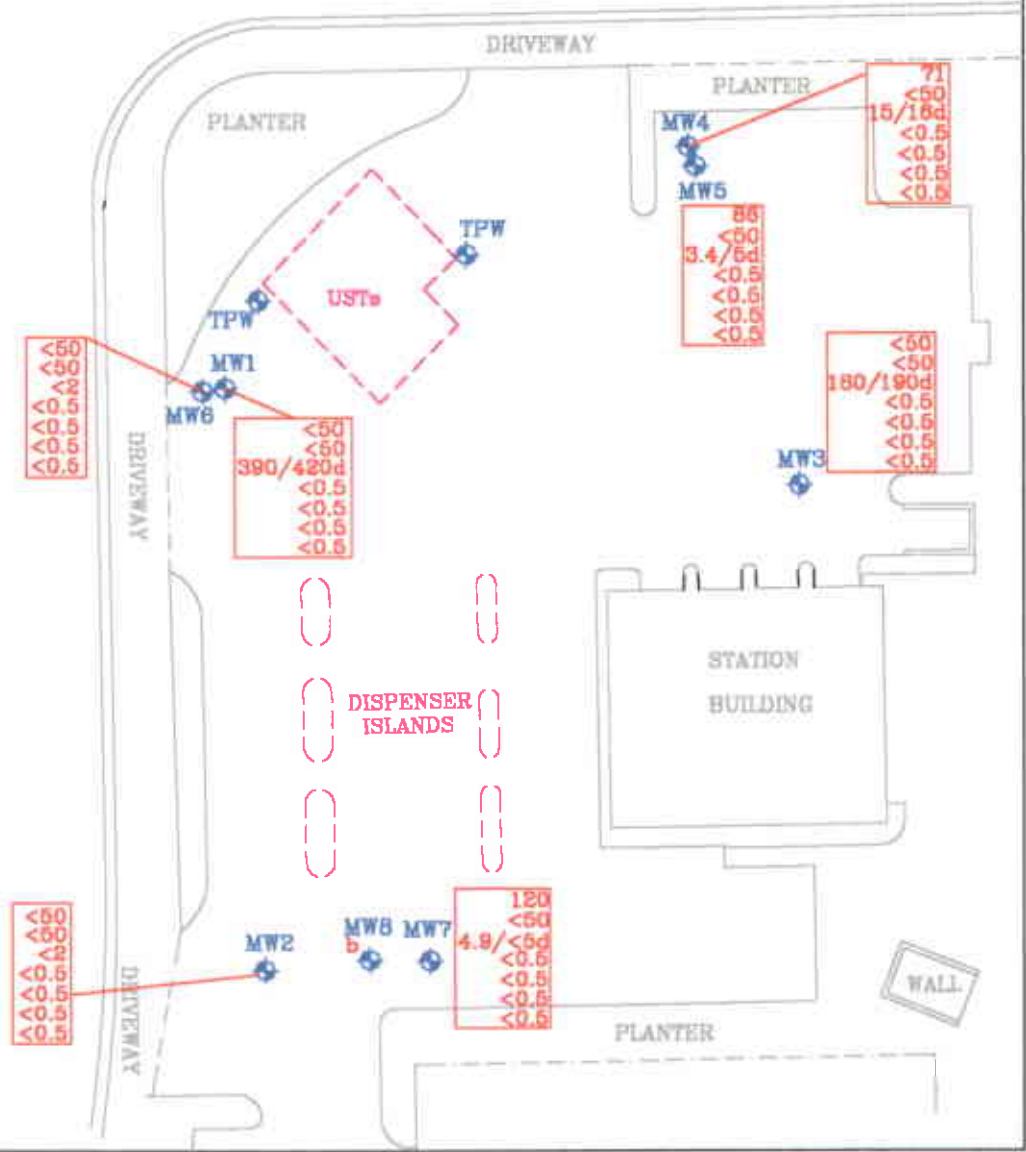
APPROXIMATE SCALE



LAS POSITAS BOULEVARD



SANTA RITA ROAD



SOURCE:
Modified from a map
provided by
Morrow Surveying

FN 24310003

EXPLANATION

- MW1 Groundwater Monitoring Well
- TPW Tank Pit Well

Analyte Concentrations in ug/L
Sampled October 19, 2001

120	Total Petroleum Hydrocarbons as Diesel
<50	Total Petroleum Hydrocarbons as Gasoline
4.9/<0.5	Methyl Tertiary Butyl Ether
<0.5	Benzene
<0.5	Toluene
<0.5	Ethylbenzene
<0.5	Total Xylenes
<	Less Than the Stated Laboratory Detection Limit

d MTBE confirmed using EPA Method 8280.

ug/L Micrograms per liter
b Well Contained an Insufficient Amount of Water to Collect a Sample.



GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-3587
3192 Santa Rita Road
Pleasanton, California

PROJECT NO.

2431

PLATE

2

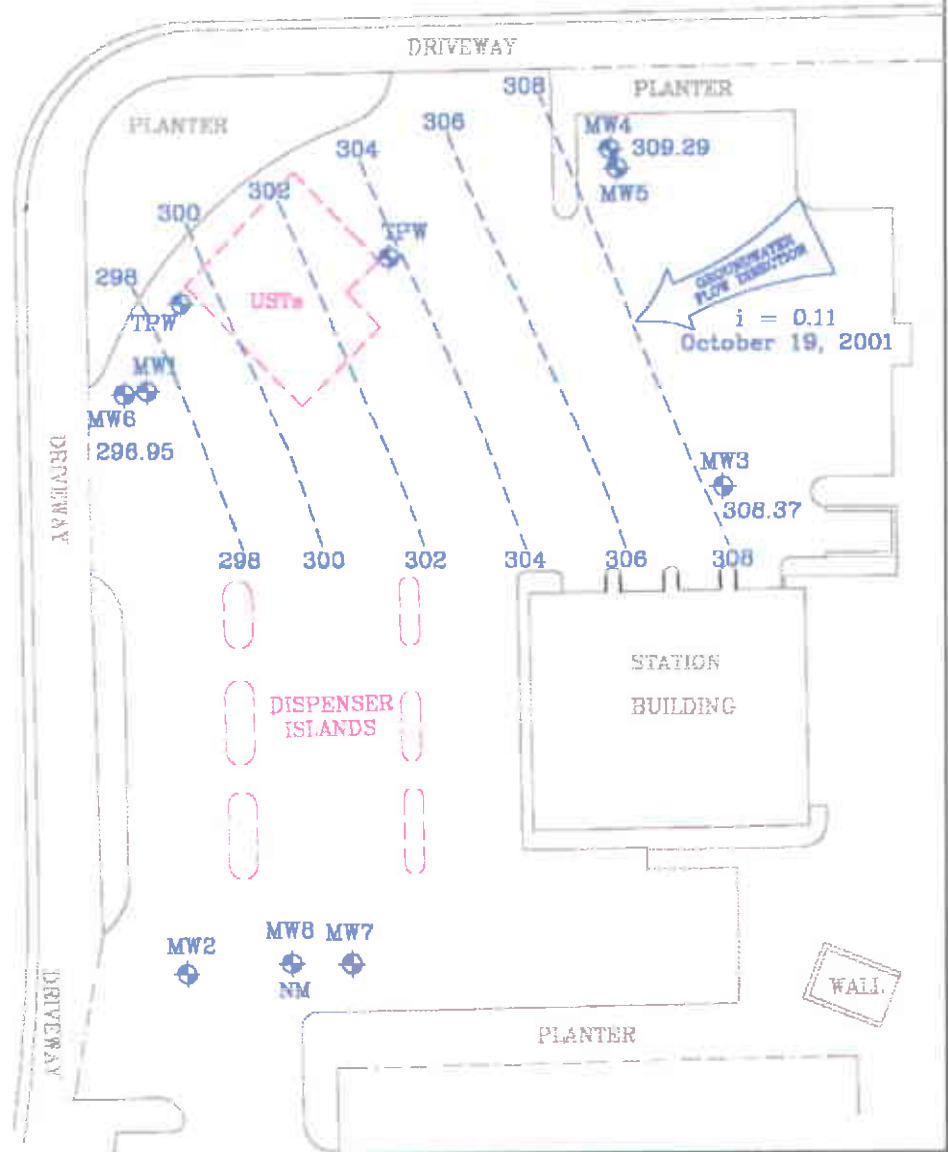
APPROXIMATE SCALE



LAS POSITAS BOULEVARD



SANTA RITA ROAD



SOURCE:
Modified from a map
provided by
Morrow Surveying

FN 24310003

EXPLANATION

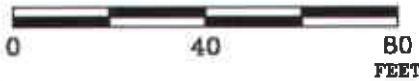
- MW7 Groundwater Monitoring Well
- 316.74 Groundwater elevation in feet; datum is mean sea level
- TPW Tank Pit Well
- $i =$ Interpreted Hydraulic Gradient
- 308 Line of Equal Groundwater Elevation; Datum is Mean Sea Level



**GROUNDWATER ELEVATION MAP
LOWER WATER-BEARING ZONE**
FORMER EXXON SERVICE STATION 7-3587
3192 Santa Rita Road
Pleasanton, California

PROJECT NO.
2431
PLATE
3

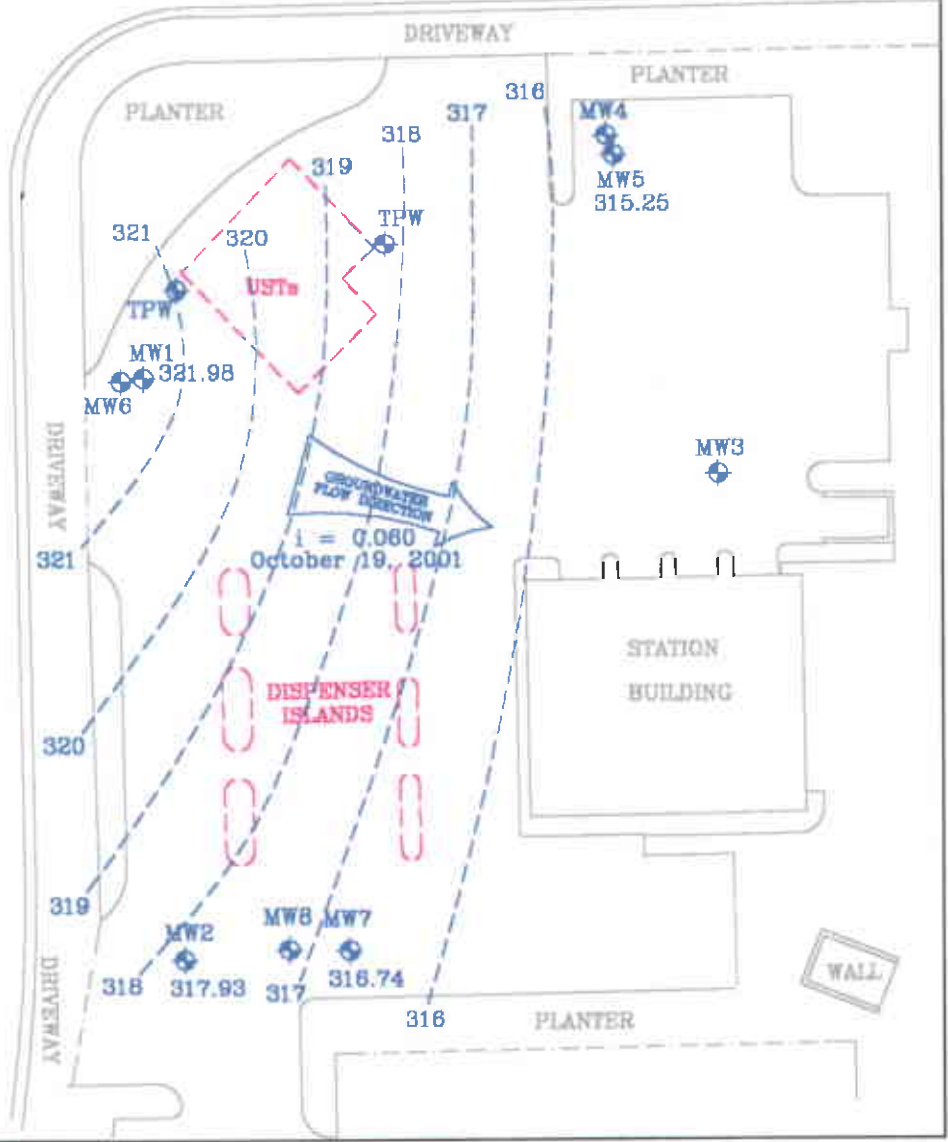
APPROXIMATE SCALE



LAS POSITAS BOULEVARD



SANTA RITA ROAD



SOURCE:
Modified from a map
provided by
Morrow Surveying

FN 24310003

EXPLANATION

- MW7 Groundwater Monitoring Well
- 316.21 Groundwater elevation in feet; datum is mean sea level
- TPW Tank Pit Well
- $i = 0.060$ = Interpreted Hydraulic Gradient
- 308 = Line of Equal Groundwater Elevation; Datum is Mean Sea Level



**GROUNDWATER ELEVATION MAP
UPPER WATER BEARING ZONE**

FORMER EXXON SERVICE STATION 7-3587
3192 Santa Rita Road
Pleasanton, California

PROJECT NO.

2431

PLATE

4

ATTACHMENT A

GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate-phase product level, if present, in each well that contains water and/or separate-phase product are measured with an ORS Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from top of casing elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® or polypropylene bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. If appropriate, free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until a minimum of three well casing volumes is purged and stabilization of the temperature, pH, and conductivity is obtained. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples". The quantity of water purged from each well is calculated as follows:

1 well casing volume = $\pi r^2 h (7.48)$ where:

r	=	radius of the well casing in feet.
h	=	column of water in the well in feet (depth to bottom - depth to water)
7.48	=	conversion constant from cubic feet to gallons
π	=	ratio of the circumference of a circle to its diameter

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples". Water samples are collected with a new, disposable Teflon® or polypropylene bailer. The groundwater is carefully poured into selected sample containers (40-milliliter (ml) glass vials, 1,000 ml glass amber bottles, etc.), which are filled so as to produce a positive meniscus.

Depending on the required analysis, each sample container is preserved with hydrochloric acid, nitric acid, etc., or it is preservative free. The type of preservative used for each sample is specified on the chain of custody form.

Each vial and glass amber bottle is sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace, which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain-of-Custody Record, to a California-certified laboratory.

ATTACHMENT B
FIELD DATA SHEETS

FIELD WORK REQUEST

ERI Job Number: 243113
 Office Task code: 02
 Field Task code: 01
 Project Manager: Scot Graham
 Staff Geologist: Tom Culig
 Site: 7-3567
 Location: 3192 Santa Rita Road
Pleasanton, California
 County: Alameda

Field Person: Tech
 Dates: 10/18/01

TOTAL BUDGETED TIME
9 Hours. Report Time & Sign Off!

WORK REQUESTED

For fourth quarter, 2001 DTW should be measured in wells MW1 through MW8. Groundwater samples collected from MW1 through MW8 should be submitted for laboratory analysis for BTEX and MTBE using EPA method 8020, and TPPHg and TEPHd using EPA method 8015 (modified). Confirm MTBE by 8260. Remember Trip Blank. Follow ERI SOPs. Add silica gel cleanup to diesel.

	<u>DTW</u>	<u>Sample</u>	<u>Analytical Suite</u>	<u>TEPHd</u>	<u>TPPHg</u>	<u>MTBE</u>	<u>B</u>
MW2	Y	Y	TEPHd, TPPHg, MTBE, BTEX	<50	<50	<2	<0.5
MW6	Y	Y	TEPHd, TPPHg, MTBE, BTEX	<50	<50	<5	<0.3
MW5	Y	Y	TEPHd, TPPHg, MTBE, BTEX	---	---	---	---
MW8	Y	Y	TEPHd, TPPHg, MTBE, BTEX	---	---	---	---
MW7	Y	Y	TEPHd, TPPHg, MTBE, BTEX	300	<50	8.2	<0.5
MW4	Y	Y	TEPHd, TPPHg, MTBE, BTEX	---	---	---	---
MW1	Y	Y	TEPHd, TPPHg, MTBE, BTEX	<50	<50	20	<0.5
MW3	Y	Y	TEPHd, TPPHg, MTBE, BTEX	<50	0.27	190	<0.5

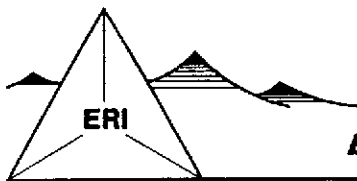
Sample in the order listed. Collect three 40 ml VOAs, and 2 amber liters from each well. Also, collect a bailer blank before sampling MW1 and run analyses. Give C of C and field notes to PM for review. SPL is the contract lab. Call office with any questions and to check in. Report time!

LOCAL GOVERNMENT CONTACT: Mr. Scott Seary
 SAFETY PLAN NUMBER: 2431-1.SSP DATE: 12/06/94
 EXXON CONTACT: Mr. Gene Ortega
 CONTRACT NUMBER: 21040350

POTENTIAL CONTAMINANTS (X) GASOLINE (X) DIESEL () USED OIL () OTHER:	EQUIPMENT: PID: PUMP: <u>Bring Pump</u> OTHER: <u>Bailers, DTW Tape, Decon</u> <u>Equipment, Well Repair Tools, Sampling</u> <u>Equipment, H & S Equipment, Drum labels</u>
--	--

HOURS EXCEEDING BUDGET GO TO NONBILLABLE TIME

Samplers Signature: [Signature] Date: 10/18/01
 Actual Hours: 4.5 hrs



DAILY FIELD REPORT

ENVIRONMENTAL RESOLUTIONS, INC.

PROJECT: 73567 JOB # + ACTIVITY: 243113X
SUBJECT: QW Sampling DATE: 10/19/01
EQUIPMENT USED: _____ SHEET: 1 OF 1
NAME: Chal. Erbach PROJECT MNGR: S. Graham

ON SITE: 8:30

Check in w/ St. Manager

Open all wells

Get up decan

Take pre DTW / Purge / Take Post DTW

Sample

Close all wells

Clean up site

Check out

Purge Volumes \approx 47 gal

15 gals. decan \rightarrow + $\begin{matrix} 15 \\ 62 \end{matrix}$ + 80 gal of Onsite Purge H₂O

* MWG dry - No Sample or Purge

* MWG - There is no visible concrete seal + the PVC is unstable / wobbly

* Pick up $\underline{1}$ ~~80~~ gal of Purge H₂O from Drums onsite

OFFSITE: 1400

ARI R AM LII J L A S
 ERI Job Number 243113K Station No. 73567 Site Address 392 Santa Rita Rd. Pleasanton CA EWR# _____ Inspector CP

Well No.	Well Head Screws	Rubber Gasket	Well Cap Locking	Lock on Well Cap	Concrete Well Seal	Well Head PVC	Water In Well Vault	Fence/Cap Condition	# Drums	Drum Contents	Site Appearance	Comments
2	2"	OK	OK	OK	OK	OK	N					
6	↓	OK	OK	OK	OK	OK	N					No Concrete Seal is visible if there is one it is very deep
16	↓	OK	OK	OK	OK	OK	N					
8	↓	OK	OK	OK	OK	OK	N					
7	↓	OK	OK	OK	OK	OK	N					
4	↓	OK	OK	OK	OK	OK	N					
3	↓	OK	OK	N	N	OK	Y					Some water/needs work

N • Not Repairable in time available - see comments
 R • Repaired - see comments
 OK No action needed
 Y • Yes
 N • No

S • Soil
 W • Water
 E • Empty

75207

10/19

Charltonson

Well ID	Case Diameter	Older Size	Total Depth	Pre-Purge DTW	DTP	Product Thickness	TOC	Elevation	Notes
WZ	2"	N/N	35.15	22.68					
W6	2"	N/N	51.63	44.1					
5	2"	N/N	30.39	27.62					
8	1"	N/N	67.83	---					dry
7		N/N	49.34	24.99					
4		N/N	49.72	33.67					
1		N/N	34.52	19.48					
3	✓	N/N	45.12	34.58					

[Handwritten scribble]

CLIENT NAME
 LOCATION
 FIELD CREW

73067
 292 Santa Rita
 Cluffman

ERI JOB #
 FIELD CLEANING PERFORMED
 ANALYSIS

275119
 ✓
 ✓

DATE: 10/19/01 PAGE 7 OF 12
 * Case volume = (TD-DTW) X F where F =
 0.163 for a 2" inside diameter well casing
 0.652 for a 4" inside diameter well casing
 1.467 for a 6" inside diameter well casing

Well*ID	Time	Case Volume	Purge Volume	Temp	Cond	PH	Post Purge DTW	80% Rechg	BB	40mil	Amber	Comments Well Box Condition
MW2	0944	2					29.3	Y	1145	1150	1150	
	0946		2	67.3	1.73	6.89						
	0948		4	68.3	1.86	7.02						
	0950		6	68.3	1.82	7.03						
MW6	1002	2		68.0			44.35	Y	1200	1200		
	1003		2	68.0	1.74	7.17						
			4									
			6									dry at 3.5 gal
MW5	1006	1					28.55	Y	1215	1215		
	1017		1	66.6	2.13	7.06						
	1018		2	66.0	1.66	7.18						
			3									dry at 2 gal
MW8												Completely dry

CLIENT NAME
LOCATION
FIELD CREW

75067
392 Santa Rita Rd.
Chattanooga

ERI JOB #
FIELD CLEANING PERFORMED
ANALYSIS

7131
2

DATE: 10/11/01 PAGE 4

* Case volume = (TD-DTW) X F where F =
0.163 for a 2" inside diameter well casing
0.652 for a 4" inside diameter well casing
1.467 for a 6" inside diameter well casing

Well ID	Time	Case Volume	Purge Volume	Temp	Cond	PH	Post Purge DTW	80% Rechg	BB	40mil	Amber	Comments Well Box Condit
MW7	1025	4					29.88	Y		1225	1225	
	1029		4	68.9	1.69	7.14						
	1033		8	69.1	1.73	7.18						
	1036		12	69.1	1.72	7.15						
MW4	1043	3					37.09	Y		1235	1235	
	1045		3	68.4	1.92	7.07						
	1049		6	69.1	1.97	7.09						
	1053		9	69.5	2.01	7.11						
MW1	1115	3					19.49	Y		1250	1250	
	1117		3	70.5	1.34	7.24						
	1120		6	70.4	1.57	7.19						
	1123		9	70.0	1.57	7.23						
MW3	1129	2					36.3	Y		1300	1300	
	1130		2	68.2	1.42	7.17						
	1132		4	67.9	1.40	7.16						
	1133		6	68.0	1.67	7.15						

EXXON COMPANY, USA.

(West Coast)

CHAIN OF CUSTODY RECORD NO. _____

Page 1 of 1

Exxon Engineer: Ben [unclear] Phone: 478-516-8747
 Consultant Co. Name: [unclear] Contact: [unclear]
 Address: 730 [unclear] Dr Fax: [unclear]
MA [unclear]
 RAS #: 75567 Facility/State ID # (TN Only): _____
 AFE # (Terminal Only): _____ Consultant Project #: 13X
 Location: 215 [unclear] (City) PI (State) CA
 EE C&M SDT
 Consultant Work Release #: 210/10350
 Sampled By: [unclear]

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

OTHER

NO. OF CONTAINERS	CONTAINER SIZE	ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)																OTHER																			
		TPH/GC 8015 DROX	8015 DROX	BTEX 8020	602	MTBE 8020	8260	OXYGENATES (7) 8260	O&G IR 413.1	GRAV 413.2	VOL 8260	624	SEMI-VOL 8270	625	PNAPAH 8100	8310	8270	PCB/PEST 8081/8082	PCB ONLY	TCLP PULL VOC	SEMI-VOL PEST	HERB	METALS, TOTAL	METALS, TCLP	LEAD, TOTAL 239.1	7421	LEAD, TCLP	LEAD, DISSOLVED	LEAD TOTAL	REACTIVITY	CORROSION	FLASH POINT	PURGEABLE HYDROCARBON 8010	601	TPHIR 418.1	TOX/TOH	
2	10	X	X	X	X																																

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE
					H ₂ O	SOIL	AIR		
TB				X	X				
D15	10/19	1145							
MW2		1150							
MW6		1200							
MW5		1215							
MW7		1220							
MW4		1230							
MW1		1250							
MW3		1500							

TAT
 24 HR. _____ * 72 HR. _____ *
 48 HR. _____ * 96 HR. _____ *
 8 Business *Contact US Prior to Sending Sample
 Other _____

EXXON UST CONTRACT NO. C41483

Standard CLP Other QA/QC Level

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)
 PDF EDD
 FAX FAX C-O-C W/REPORT

REMARKS: Request for fuel cleanup from Diesel/Contaminated water

LAB USE ONLY Lot # _____ Storage Location _____

WORK ORDER #: _____ LAB WORK RELEASE #: _____

CUSTODY RECORD

Relinquished By Sampler: <u>[Signature]</u>	Date <u>10/22/01</u>	Time <u>1500</u>	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By:

Wsp Bill # _____ Cooler Temp: _____

FedEx USA Airbill
Express

FedEx
Tracking
Number

8296 7268 2334

1 From Please print and press hard.

Date 10/22/01

Sender's FedEx
Account Number

Sender's Name JENN

Phone 415 382-9105

Company ERI

Address 73 Digital Dr., Suite 100

Dept./Floor/Suite/Room

City NOVATO

State CA

ZIP 94949

EXTENSION
122113X
243113X

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

3 To
Recipient's Name Sonia West

Phone 713 660-0901

Company SOUTHERN PETROLEUM LAB

Address HOLD @ 2795 HOLLY HALL

To "HOLD" at FedEx location, print FedEx address.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

City HOUSTON

State TX

ZIP 77054-2512

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at fedex.com

or call 1-800-Go-FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0190158857

Sender's Copy

4a Express Package Service

FedEx Priority Overnight
Next business morning

FedEx Standard Overnight
Next business afternoon

FedEx First Overnight
Earliest next business morning
delivery to select locations

Packages up to 150 lbs.
Delivery commitment may be later in some areas.

FedEx 2Day
Second business day
FedEx Envelope rate not available. Minimum charge: One-pound rate.

FedEx Express Saver
Third business day

NEW FedEx Extra Hours
Later drop-off with next business
afternoon delivery to select locations

4b Express Freight Service

FedEx 1Day Freight*
Next business day

FedEx 2Day Freight
Second business day

FedEx 3Day Freight
Third business day

Packages over 150 lbs.
Delivery commitment may be later in some areas.

* Call for Confirmation.

5 Packaging

FedEx Envelope*

FedEx Pak*
Includes FedEx Small Pak, FedEx
Large Pak, and FedEx Sturdy Pak

Other Pkg.
Includes FedEx Box, FedEx
Tube, and customer pkg.

* Declared value limit \$500

6 Special Handling

SATURDAY Delivery
RESTRICTIONS
Available only for FedEx Priority
Overnight and FedEx 2Day
to select ZIP codes.

SUNDAY Delivery
RESTRICTIONS
Available only for FedEx Priority
Overnight to select ZIP codes.

HOLD Weekday
at FedEx Location
RESTRICTIONS
Not available with
FedEx First Overnight.

HOLD Saturday
at FedEx Location
RESTRICTIONS
Available only for FedEx Priority
Overnight and FedEx 2Day
to select locations.

Include FedEx address in Section 3.

Does this shipment contain dangerous goods?
One box must be checked.

No

Yes

As per attached
Shipper's Declaration

Dry Ice

Dry Ice, 9, UN 1845 _____ x _____ kg

Cargo
Aircraft
Only

Dangerous Goods (incl. Dry Ice) cannot be shipped in FedEx packaging or with FedEx Extra Hours service.

7 Payment Bill to:

Enter FedEx Acct. No. or Credit Card No. below.

Sender
Acct. No. in Section
1 will be billed.

Recipient

Third Party

Credit Card

Cash/Check

FedEx Acct. No.
Credit Card No.

1007-9834-4

Exp.
Date

Total Packages

Total Weight

Total Declared Value¹

1/3

55 lbs.

.00

FedEx Use Only

¹Our liability is limited to \$100 unless you declare a higher value. See back for details.

8 Release Signature

Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

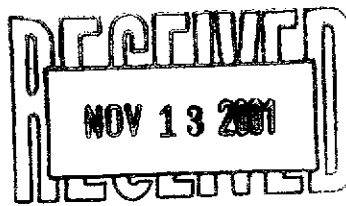
406

SFP • Rev. Date 12/00 • Part #1558185 • ©1999-2000 FedEx • PRINTED IN U.S.A.

PULL AND RETAIN THIS COPY BEFORE AFFIXING TO THE PACKAGE.

ATTACHMENT C

**LABORATORY ANALYSIS REPORT
AND CHAIN-OF-CUSTODY RECORD**



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

EXXON Company U.S.A.

Certificate of Analysis Number:

01100882

Report To: Environmental Resolution, Inc. Scott Graham 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856	Project Name: 243113X Site: 7-3567 Site Address: 3192 Santa Rita Rd. Pleasanton CA PO Number: EWR#21040350 State: California State Cert. No.: 1903 Date Reported: 11/2/01
--	---

This Report Contains A Total Of 23 Pages

Excluding This Page

And

Chain Of Custody

11/2/01

Date



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

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

Certificate of Analysis Number:

01100882

Report To: Environmental Resolution, Inc. Scott Graham 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856	Project Name: 243113X Site: 7-3567 Site Address: 3192 Santa Rita Rd. Pleasanton CA PO Number: EWR#21040350 State: California State Cert. No.: 1903 Date Reported: 11/2/01
--	---

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

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

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

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

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

Sonia West
Senior Project Manager

11/5/01

Date



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

EXXON Company U.S.A.

Certificate of Analysis Number:
01100882

Report To: Environmental Resolution, Inc.
 Scott Graham
 73 Digital Drive Suite 100

Novato
 California
 94949-
 ph: (415) 382-9105 fax: (415) 382-1856

Fax To: Environmental Resolution, Inc.
 Scott Graham fax : (415) 382-1856

Project Name: 243113X
Site: 7-3567
Site Address: 3192 Santa Rita Rd.
 Pleasanton CA
PO Number: EWR#21040350
State: California
State Cert. No.: 1903
Date Reported: 11/2/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
B	01100882-01	Water	10/19/01	10/23/01 10:00:00 AM		<input type="checkbox"/>
	01100882-02	Water	10/19/01 11:45:00 AM	10/23/01 10:00:00 AM		<input type="checkbox"/>
	01100882-02	Water	10/19/01 11:45:00 AM	10/23/01 10:00:00 AM		<input checked="" type="checkbox"/>
1W2	01100882-03	Water	10/19/01 11:50:00 AM	10/23/01 10:00:00 AM		<input type="checkbox"/>
1W2	01100882-03	Water	10/19/01 11:50:00 AM	10/23/01 10:00:00 AM		<input checked="" type="checkbox"/>
1W6	01100882-04	Water	10/19/01 12:00:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
1W6	01100882-04	Water	10/19/01 12:00:00 PM	10/23/01 10:00:00 AM		<input checked="" type="checkbox"/>
1W5	01100882-05	Water	10/19/01 12:15:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
1W7	01100882-06	Water	10/19/01 12:25:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
1W4	01100882-07	Water	10/19/01 12:35:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
1W1	01100882-08	Water	10/19/01 12:50:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
1W3	01100882-09	Water	10/19/01 1:00:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>

Sonia West

11/2/01

Sonia West
 Senior Project Manager

Date

Joel Grice
 Laboratory Director
 Ted Yen
 Quality Assurance Officer



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

Client Sample ID: TB Collected: 10/19/01 SPL Sample ID: 01100882-01

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 12:22	DL	878378
Surr: 1,4-Difluorobenzene	98.3	% 62-144	1		10/25/01 12:22	DL	878378
Surr: 4-Bromofluorobenzene	96.7	% 44-153	1		10/25/01 12:22	DL	878378
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 12:22	DL	878291
Ethylbenzene	ND	0.5	1		10/25/01 12:22	DL	878291
Methyl tert-butyl ether	ND	2	1		10/25/01 12:22	DL	878291
Toluene	ND	0.5	1		10/25/01 12:22	DL	878291
m,p-Xylene	ND	0.5	1		10/25/01 12:22	DL	878291
o-Xylene	ND	0.5	1		10/25/01 12:22	DL	878291
Xylenes, Total	ND	0.5	1		10/25/01 12:22	DL	878291
Surr: 1,4-Difluorobenzene	108	% 72-137	1		10/25/01 12:22	DL	878291
Surr: 4-Bromofluorobenzene	95.0	% 48-156	1		10/25/01 12:22	DL	878291

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID: BB

Collected: 10/19/01 11:45:0 SPL Sample ID: 01100882-02

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA DRO	Units: ug/L		
Diesel Range Organics	ND	50	1		11/01/01 1:04 AM		889747
Surr: n-Pentacosane	53.6 %	20-150	1		11/01/01 1:04 AM		889747

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 12:47 DL		878379
Surr: 1,4-Difluorobenzene	99.0 %	62-144	1		10/25/01 12:47 DL		878379
Surr: 4-Bromofluorobenzene	96.0 %	44-153	1		10/25/01 12:47 DL		878379

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 12:47 DL		878292
Ethylbenzene	ND	0.5	1		10/25/01 12:47 DL		878292
Methyl tert-butyl ether	ND	2	1		10/25/01 12:47 DL		878292
Toluene	ND	0.5	1		10/25/01 12:47 DL		878292
m,p-Xylene	ND	0.5	1		10/25/01 12:47 DL		878292
o-Xylene	ND	0.5	1		10/25/01 12:47 DL		878292
Xylenes, Total	ND	0.5	1		10/25/01 12:47 DL		878292
Surr: 1,4-Difluorobenzene	109 %	72-137	1		10/25/01 12:47 DL		878292
Surr: 4-Bromofluorobenzene	106 %	48-156	1		10/25/01 12:47 DL		878292

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878309

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference



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

Client Sample ID: MW2

Collected: 10/19/01 11:50:0 SPL Sample ID: 01100882-03

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	ND	50	1		11/01/01 1:42 AM		889748
Surr: n-Pentacosane	65.2 %	20-150	1		11/01/01 1:42 AM		889748

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 13:11 DL		878380
Surr: 1,4-Difluorobenzene	97.0 %	62-144	1		10/25/01 13:11 DL		878380
Surr: 4-Bromofluorobenzene	97.0 %	44-153	1		10/25/01 13:11 DL		878380

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 13:11 DL		878295
Ethylbenzene	ND	0.5	1		10/25/01 13:11 DL		878295
Methyl tert-butyl ether	ND	2	1		10/25/01 13:11 DL		878295
Toluene	ND	0.5	1		10/25/01 13:11 DL		878295
m,p-Xylene	ND	0.5	1		10/25/01 13:11 DL		878295
o-Xylene	ND	0.5	1		10/25/01 13:11 DL		878295
Xylenes, Total	ND	0.5	1		10/25/01 13:11 DL		878295
Surr: 1,4-Difluorobenzene	105 %	72-137	1		10/25/01 13:11 DL		878295
Surr: 4-Bromofluorobenzene	106 %	48-156	1		10/25/01 13:11 DL		878295

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878310

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID: MW6

Collected: 10/19/01 12:00:0 SPL Sample ID: 01100882-04

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	ND	50	1		11/01/01 3:37 AM		889751
Surr: n-Pentacosane	62.8 %	20-150	1		11/01/01 3:37 AM		889751

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 13:36 DL		878381
Surr: 1,4-Difluorobenzene	98.7 %	62-144	1		10/25/01 13:36 DL		878381
Surr: 4-Bromofluorobenzene	97.7 %	44-153	1		10/25/01 13:36 DL		878381

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 13:36 DL		878296
Ethylbenzene	ND	0.5	1		10/25/01 13:36 DL		878296
Methyl tert-butyl ether	ND	2	1		10/25/01 13:36 DL		878296
Toluene	ND	0.5	1		10/25/01 13:36 DL		878296
m,p-Xylene	ND	0.5	1		10/25/01 13:36 DL		878296
o-Xylene	ND	0.5	1		10/25/01 13:36 DL		878296
Xylenes, Total	ND	0.5	1		10/25/01 13:36 DL		878296
Surr: 1,4-Difluorobenzene	107 %	72-137	1		10/25/01 13:36 DL		878296
Surr: 4-Bromofluorobenzene	106 %	48-156	1		10/25/01 13:36 DL		878296

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878311

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID: MW5 Collected: 10/19/01 12:15:0 SPL Sample ID: 01100882-05

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	86	50	1		11/01/01 10:00 AM		889760
Surr: n-Pentacosane	60.8 %	20-150	1		11/01/01 10:00 AM		889760

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 14:00 DL		878382
Surr: 1,4-Difluorobenzene	98.3 %	62-144	1		10/25/01 14:00 DL		878382
Surr: 4-Bromofluorobenzene	97.3 %	44-153	1		10/25/01 14:00 DL		878382

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 14:00 DL		878297
Ethylbenzene	ND	0.5	1		10/25/01 14:00 DL		878297
Methyl tert-butyl ether	3.4	2	1		10/25/01 14:00 DL		878297
Toluene	ND	0.5	1		10/25/01 14:00 DL		878297
m,p-Xylene	ND	0.5	1		10/25/01 14:00 DL		878297
o-Xylene	ND	0.5	1		10/25/01 14:00 DL		878297
Xylenes, Total	ND	0.5	1		10/25/01 14:00 DL		878297
Surr: 1,4-Difluorobenzene	109 %	72-137	1		10/25/01 14:00 DL		878297
Surr: 4-Bromofluorobenzene	107 %	48-156	1		10/25/01 14:00 DL		878297

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878312

VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	ND	5	1		10/27/01 3:49 JC		882384
Surr: 1,2-Dichloroethane-d4	100 %	62-130	1		10/27/01 3:49 JC		882384
Surr: 4-Bromofluorobenzene	100 %	70-130	1		10/27/01 3:49 JC		882384
Surr: Toluene-d8	98.0 %	74-122	1		10/27/01 3:49 JC		882384

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID: MW7

Collected: 10/19/01 12:25:0 SPL Sample ID: 01100882-06

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	120	50	1		11/01/01 6:10 AM		889754
Surr: n-Pentacosane	59.6 %	20-150	1		11/01/01 6:10 AM		889754

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 14:25 DL		878385
Surr: 1,4-Difluorobenzene	98.7 %	62-144	1		10/25/01 14:25 DL		878385
Surr: 4-Bromofluorobenzene	93.7 %	44-153	1		10/25/01 14:25 DL		878385

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 14:25 DL		878298
Ethylbenzene	ND	0.5	1		10/25/01 14:25 DL		878298
Methyl tert-butyl ether	4.9	2	1		10/25/01 14:25 DL		878298
Toluene	ND	0.5	1		10/25/01 14:25 DL		878298
m,p-Xylene	ND	0.5	1		10/25/01 14:25 DL		878298
o-Xylene	ND	0.5	1		10/25/01 14:25 DL		878298
Xylenes, Total	ND	0.5	1		10/25/01 14:25 DL		878298
Surr: 1,4-Difluorobenzene	108 %	72-137	1		10/25/01 14:25 DL		878298
Surr: 4-Bromofluorobenzene	107 %	48-156	1		10/25/01 14:25 DL		878298

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878313

VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	ND	5	1		10/27/01 4:18 JC		882385
Surr: 1,2-Dichloroethane-d4	100 %	62-130	1		10/27/01 4:18 JC		882385
Surr: 4-Bromofluorobenzene	98.0 %	70-130	1		10/27/01 4:18 JC		882385
Surr: Toluene-d8	98.0 %	74-122	1		10/27/01 4:18 JC		882385

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID: MW4

Collected: 10/19/01 12:35:0 SPL Sample ID: 01100882-07

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	71	50	1		11/01/01 10:38	AM	889761
Surr: n-Pentacosane	52.6 %	20-150	1		11/01/01 10:38	AM	889761

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 13:36	DL	878221
Surr: 1,4-Difluorobenzene	101 %	62-144	1		10/25/01 13:36	DL	878221
Surr: 4-Bromofluorobenzene	69.0 %	44-153	1		10/25/01 13:36	DL	878221

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 13:36	DL	878206
Ethylbenzene	ND	0.5	1		10/25/01 13:36	DL	878206
Methyl tert-butyl ether	15	2	1		10/25/01 13:36	DL	878206
Toluene	ND	0.5	1		10/25/01 13:36	DL	878206
m,p-Xylene	ND	0.5	1		10/25/01 13:36	DL	878206
o-Xylene	ND	0.5	1		10/25/01 13:36	DL	878206
Xylenes,Total	ND	0.5	1		10/25/01 13:36	DL	878206
Surr: 1,4-Difluorobenzene	98.4 %	72-137	1		10/25/01 13:36	DL	878206
Surr: 4-Bromofluorobenzene	93.3 %	48-156	1		10/25/01 13:36	DL	878206

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00	KL	878314

VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	16	5	1		10/27/01 4:47	JC	882386
Surr: 1,2-Dichloroethane-d4	102 %	62-130	1		10/27/01 4:47	JC	882386
Surr: 4-Bromofluorobenzene	98.0 %	70-130	1		10/27/01 4:47	JC	882386
Surr: Toluene-d8	98.0 %	74-122	1		10/27/01 4:47	JC	882386

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID: MW1

Collected: 10/19/01 12:50:0 SPL Sample ID: 01100882-08

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	ND	50	1		11/01/01 4:15 AM		889752
Surr: n-Pentacosane	63.4 %	20-150	1		11/01/01 4:15 AM		889752

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 14:02 DL		878223
Surr: 1,4-Difluorobenzene	99.0 %	62-144	1		10/25/01 14:02 DL		878223
Surr: 4-Bromofluorobenzene	73.7 %	44-153	1		10/25/01 14:02 DL		878223

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 14:02 DL		878209
Ethylbenzene	ND	0.5	1		10/25/01 14:02 DL		878209
Methyl tert-butyl ether	390	2	1		10/25/01 14:02 DL		878209
Toluene	ND	0.5	1		10/25/01 14:02 DL		878209
m,p-Xylene	ND	0.5	1		10/25/01 14:02 DL		878209
o-Xylene	ND	0.5	1		10/25/01 14:02 DL		878209
Xylenes, Total	ND	0.5	1		10/25/01 14:02 DL		878209
Surr: 1,4-Difluorobenzene	99.8 %	72-137	1		10/25/01 14:02 DL		878209
Surr: 4-Bromofluorobenzene	92.4 %	48-156	1		10/25/01 14:02 DL		878209

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878315

VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	420	25	5		10/27/01 5:16 JC		882387
Surr: 1,2-Dichloroethane-d4	96.0 %	62-130	5		10/27/01 5:16 JC		882387
Surr: 4-Bromofluorobenzene	96.0 %	70-130	5		10/27/01 5:16 JC		882387
Surr: Toluene-d8	96.0 %	74-122	5		10/27/01 5:16 JC		882387

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID: MW3

Collected: 10/19/01 1:00:00 SPL Sample ID: 01100882-09

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	ND	50	1		11/01/01 6:49 AM		889755
Surr: n-Pentacosane	64.2 %	20-150	1		11/01/01 6:49 AM		889755

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 14:27 DL		878224
Surr: 1,4-Difluorobenzene	97.7 %	62-144	1		10/25/01 14:27 DL		878224
Surr: 4-Bromofluorobenzene	78.3 %	44-153	1		10/25/01 14:27 DL		878224

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 14:27 DL		878212
Ethylbenzene	ND	0.5	1		10/25/01 14:27 DL		878212
Methyl tert-butyl ether	180	2	1		10/25/01 14:27 DL		878212
Toluene	ND	0.5	1		10/25/01 14:27 DL		878212
m,p-Xylene	ND	0.5	1		10/25/01 14:27 DL		878212
o-Xylene	ND	0.5	1		10/25/01 14:27 DL		878212
Xylenes, Total	ND	0.5	1		10/25/01 14:27 DL		878212
Surr: 1,4-Difluorobenzene	98.3 %	72-137	1		10/25/01 14:27 DL		878212
Surr: 4-Bromofluorobenzene	93.0 %	48-156	1		10/25/01 14:27 DL		878212

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878316

VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	190	5	1		10/27/01 5:45 JC		882388
Surr: 1,2-Dichloroethane-d4	102 %	62-130	1		10/27/01 5:45 JC		882388
Surr: 4-Bromofluorobenzene	96.0 %	70-130	1		10/27/01 5:45 JC		882388
Surr: Toluene-d8	98.0 %	74-122	1		10/27/01 5:45 JC		882388

Sonia West

Sonia West
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 >MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference

Quality Control Documentation



Quality Control Report

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

EXXON Company U.S.A.
243113X

Analysis: Silica Gel Cleanup
Method: SW3630C

WorkOrder: 01100882
Lab Batch ID: R46232

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01100882-02C	BB
01100882-03C	MW2
01100882-04C	MW6
01100882-05C	MW5
01100882-06C	MW7
01100882-07C	MW4
01100882-08C	MW1
01100882-09C	MW3

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
 B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
 J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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

EXXON Company U.S.A.

243113X

Analysis: Diesel Range Organics
Method: CA_DRO

WorkOrder: 01100882
Lab Batch ID: 15651

Method Blank

Samples in Analytical Batch:

RunID: HP_V_011101B-889745 Units: mg/L
Analysis Date: 10/31/2001 23:48 Analyst: AM
Preparation Date: 10/24/2001 8:50 Prep By: KL Method SW3510B

Lab Sample ID	Client Sample ID
01100882-02C	BB
01100882-03C	MW2
01100882-04C	MW6
01100882-05C	MW5
01100882-06C	MW7
01100882-07C	MW4
01100882-08C	MW1
01100882-09C	MW3

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: n-Pentacosane	74.0	20-150

Laboratory Control Sample (LCS)

RunID: HP_V_011101B-889746 Units: mg/L
Analysis Date: 11/01/2001 0:26 Analyst: AM
Preparation Date: 10/24/2001 8:50 Prep By: KL Method SW3510B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	2.5	2.1	84	21	175

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

Sample Spiked: 01100882-03
RunID: HP_V_011101B-889749 Units: mg/L
Analysis Date: 11/01/2001 2:21 Analyst: AM
Preparation Date: 10/24/2001 8:50 Prep By: KL Method SW3510B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	5	3.6	72.0	5	3.9	76.4	5.98	20	21	175

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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

EXXON Company U.S.A.
243113X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01100882
Lab Batch ID: R46220

Method Blank

Samples in Analytical Batch:

RunID: VARD_011025A-878203 Units: ug/L
Analysis Date: 10/25/2001 13:11 Analyst: DL

Lab Sample ID Client Sample ID
01100882-07A MW4
01100882-08A MW1
01100882-09A MW3

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Benzene, Ethylbenzene, Methyl tert-butyl ether, Toluene, m,p-Xylene, o-Xylene, Xylenes, Total, and two Surr. entries.

Laboratory Control Sample (LCS)

RunID: VARD_011025A-878201 Units: ug/L
Analysis Date: 10/25/2001 12:46 Analyst: DL

Table with 7 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include Benzene, Ethylbenzene, Methyl tert-butyl ether, Toluene, m,p-Xylene, o-Xylene, and Xylenes, Total.

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

Sample Spiked: 01100957-03
RunID: VARD_011025A-878975 Units: ug/L
Analysis Date: 10/25/2001 18:16 Analyst: DL

Table with 13 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Row for Benzene.

- Qualifiers: ND/U - Not Detected at the Reporting Limit, MI - Matrix Interference, B - Analyte detected in the associated Method Blank, D - Recovery Unreportable due to Dilution, J - Estimated value between MDL and PQL, * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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

EXXON Company U.S.A.
243113X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01100882
Lab Batch ID: R46220

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

Sample Spiked: 01100957-03
RunID: VARD_011025A-878975 Units: ug/L
Analysis Date: 10/25/2001 18:16 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Toluene	ND	20	19	97.3	20	21	105	7.74	19	52	142
Ethyl tert-butyl ether	4.4	20	23	90.7	20	23	93.8	3.38	20	39	150
o-xylene	ND	20	19	94.8	20	19	97.2	2.50	20	38	159
m-Xylene	ND	40	38	95.1	40	40	99.3	4.33	17	53	144
p-Xylene	ND	20	19	97.1	20	19	94.8	2.42	18	53	143
Xylenes, Total	ND	60	57	95.0	60	59	98.3	3.45	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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

EXXON Company U.S.A.
243113X

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01100882
Lab Batch ID: R46222

Method Blank

Samples in Analytical Batch:

RunID: VARD_011025B-878219 Units: mg/L
Analysis Date: 10/25/2001 13:11 Analyst: DL

Lab Sample ID Client Sample ID
01100882-07A MW4
01100882-08A MW1
01100882-09A MW3

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Gasoline Range Organics, Surr: 1,4-Difluorobenzene, and Surr: 4-Bromofluorobenzene.

Laboratory Control Sample (LCS)

RunID: VARD_011025B-878218 Units: mg/L
Analysis Date: 10/25/2001 12:20 Analyst: DL

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row for Gasoline Range Organics.

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

Sample Spiked: 01100957-04
RunID: VARD_011025B-879016 Units: mg/L
Analysis Date: 10/25/2001 19:07 Analyst: DL

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Row for Gasoline Range Organics.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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

EXXON Company U.S.A.

243113X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01100882
Lab Batch ID: R46226

Method Blank

Samples in Analytical Batch:

RunID: VARE_011024B-878257 Units: ug/L
Analysis Date: 10/25/2001 0:10 Analyst: DL

Table with 2 columns: Lab Sample ID, Client Sample ID. Rows include 01100882-01A to 01100882-06A.

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Benzene, Ethylbenzene, Methyl tert-butyl ether, Toluene, m,p-Xylene, o-Xylene, Xylenes, Total, and two Surr. entries.

Laboratory Control Sample (LCS)

RunID: VARE_011024B-878289 Units: ug/L
Analysis Date: 10/25/2001 11:33 Analyst: DL

Table with 7 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include Benzene, Ethylbenzene, Methyl tert-butyl ether, Toluene, m,p-Xylene, o-Xylene, Xylenes, Total.

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

Sample Spiked: 01100880-01
RunID: VARE_011024B-878258 Units: ug/L
Analysis Date: 10/25/2001 0:34 Analyst: DL

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Row for Benzene.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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

EXXON Company U.S.A.

243113X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01100882
Lab Batch ID: R46226

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

Sample Spiked: 01100880-01
RunID: VARE_011024B-878258 Units: ug/L
Analysis Date: 10/25/2001 0:34 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Phenylbenzene	ND	20	19	97.1	20	20	97.7	0.558	19	52	142
Ethyl tert-butyl ether	ND	20	17	81.5	20	17	84.4	3.53	20	39	150
Toluene	ND	20	19	91.8	20	18	90.5	1.38	20	38	159
m,p-Xylene	ND	40	39	97.3	40	39	98.5	1.21	17	53	144
O-Xylene	ND	20	19	96.7	20	19	97.4	0.738	18	53	143
Xylenes, Total	ND	60	58	96.7	60	58	96.7	0	18	53	144

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
 B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
 J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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

EXXON Company U.S.A.
243113X

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01100882
Lab Batch ID: R46233

Method Blank

RunID: VARE_011024C-878344 Units: mg/L
Analysis Date: 10/25/2001 0:10 Analyst: DL

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01100882-01A	TB
01100882-02A	BB
01100882-03A	MW2
01100882-04A	MW6
01100882-05A	MW5
01100882-06A	MW7

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	97.7	62-144
Surr: 4-Bromofluorobenzene	95.7	44-153

Laboratory Control Sample (LCS)

RunID: VARE_011024C-878341 Units: mg/L
Analysis Date: 10/24/2001 23:45 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.78	78	70	130

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

Sample Spiked: 01100880-02
RunID: VARE_011024C-878349 Units: mg/L
Analysis Date: 10/25/2001 1:23 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	0.9	0.87	96.3	0.9	0.9	99.6	3.32	36	36	160

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte detected in the associated Method Blank
 J - Estimated value between MDL and PQL
 MI - Matrix Interference
 D - Recovery Unreportable due to Dilution
 * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.



Quality Control Report

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

EXXON Company U.S.A.

243113X

Analysis: Volatile Organics by Method 8260B
Method: SW8260B

WorkOrder: 01100882
Lab Batch ID: R46420

Method Blank

Samples in Analytical Batch:

RunID: K_011026B-882377 Units: ug/L
Analysis Date: 10/27/2001 0:26 Analyst: JC

Lab Sample ID Client Sample ID
01100882-05B MW5
01100882-06B MW7
01100882-07B MW4
01100882-08B MW1
01100882-09B MW3

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Methyl tert-butyl ether, Surr: 1,2-Dichloroethane-d4, Surr: 4-Bromofluorobenzene, Surr: Toluene-d8.

Laboratory Control Sample (LCS)

RunID: K_011026B-882376 Units: ug/L
Analysis Date: 10/26/2001 23:27 Analyst: JC

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Rows include 1,1-Dichloroethene, Benzene, Chlorobenzene, Toluene, Trichloroethene.

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

Sample Spiked: 01100880-10
RunID: K_011026B-882382 Units: ug/L
Analysis Date: 10/27/2001 2:51 Analyst: JC

Table with 12 columns: Analyte, Sample Result, MS Spike Added, MS Result, MS % Recovery, MSD Spike Added, MSD Result, MSD % Recovery, RPD, RPD Limit, Low Limit, High Limit. Rows include 1,1-Dichloroethene, Benzene, Chlorobenzene, Toluene, Trichloroethene.

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
B - Analyte detected in the associated Method Blank D - Recovery Unreportable due to Dilution
J - Estimated value between MDL and PQL * - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

*Sample Receipt Checklist
And
Chain of Custody*



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

Sample Receipt Checklist

Workorder:	01100882	Received By:	RE
Date and Time Received:	10/23/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	3	Chilled by:	Water Ice

- 1. Shipping container/cooler in good condition? Yes No Not Present
- 2. Custody seals intact on shipping container/cooler? Yes No Not Present
- 3. Custody seals intact on sample bottles? Yes No Not Present
- 4. Chain of custody present? Yes No
- 5. Chain of custody signed when relinquished and received? Yes No
- 6. Chain of custody agrees with sample labels? Yes No
- 7. Samples in proper container/bottle? Yes No
- 8. Sample containers intact? Yes No
- 9. Sufficient sample volume for indicated test? Yes No
- 10. All samples received within holding time? Yes No
- 11. Container/Temp Blank temperature in compliance? Yes No
- 12. Water - VOA vials have zero headspace? Yes No Not Applicable
- 13. Water - pH acceptable upon receipt? Yes No Not Applicable

SPL Representative: Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

EXXON COMPANY, USA.

(West Coast)

CHAIN OF CUSTODY RECORD NO. _____

Page 1 of 1

Exxon Engineer: Breno Ortega Phone: 979-246-8747
 Consultant Co. Name: ERI Contact: Scott Abraham
 Address: 73 Digital Dr Fax: 415-382-1850
Novato CA 94949
 RAS #: 73567 Facility/State ID # (TN Only): _____
 AFE # (Terminal Only): _____ Consultant Project #: 243113X
 Location: 3192 Santa Rita Rd (City) Pleasanton (State) CA
 EE C&M SDT
 Consultant Work Release #: 21040350
 Sampled By: Chalmer Bacon

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

OTHER

<input checked="" type="checkbox"/> TPH/GC 8015 GPD 8015 DRO	<input type="checkbox"/> 602	<input type="checkbox"/> IR 413.2	<input type="checkbox"/> 624	<input type="checkbox"/> SEMI-VOL 8270	<input type="checkbox"/> 625	<input type="checkbox"/> PNA/PAH 8100	<input type="checkbox"/> 6310	<input type="checkbox"/> PCB ONLY	<input type="checkbox"/> 8270	<input type="checkbox"/> PCB/PEST 8081/8082	<input type="checkbox"/> PCB ONLY	<input type="checkbox"/> TOP FULL VOL	<input type="checkbox"/> SEMI-VOL	<input type="checkbox"/> PEST/HERB	<input type="checkbox"/> METALS, TOLP	<input type="checkbox"/> LEAD, TOTAL	<input type="checkbox"/> 7421	<input type="checkbox"/> LEAD, TOLP	<input type="checkbox"/> LEAD, DISSOLVED	<input type="checkbox"/> LEAD TOTAL	<input type="checkbox"/> REACTIVITY	<input type="checkbox"/> CORROSION	<input type="checkbox"/> FLASH POINT	<input type="checkbox"/> PURGEABLE HYDROCARBON	<input type="checkbox"/> 8010	<input type="checkbox"/> 601	<input type="checkbox"/> TPH/MR	<input type="checkbox"/> 418.1	<input type="checkbox"/> TOX/TOH
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SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GPD 8015 DRO	BTEX 80206	MTBE 80206	OXYGENATES (7) 8260	OSG IR 413.1	VOL. 8260	SEMI-VOL 8270	PNA/PAH 8100	PCB/PEST 8081/8082	TOP FULL VOL	METALS, TOLP	LEAD, TOTAL	LEAD, DISSOLVED	REACTIVITY	CORROSION	FLASH POINT	PURGEABLE HYDROCARBON	TPH/MR	TOX/TOH	
					H ₂ O	SOIL	AIR																								
TB				X	X					2	40 MC	X	X																		
BB	10/19	1145								1	40 MC																				
MW2		1150								3/2																					
MW6		1200																													
MW5		1215																													
MW8																															
MW7		1225																													
MW4		1235																													
MW1		1250																													
MW3		1300																													

RUSH

Not Sampled

TAT
 24 HR. _____ * 72 HR. _____
 48 HR. _____ * 96 HR. _____
 8 Business *Contact US Prior to Sending Sample
 Other _____

EXXON UST
 CONTRACT NO.
C41483

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ~~EDD~~
 FAX FAX C-O-C W/REPORT

REMARKS: Request Silica Gel cleanup for all Diesel / Conf. re: MTBE using EPA Method 8000

LAB USE ONLY Lot #
 551b 50 rec
 829672682334 3 (M)
 WORK ORDER #: 01102882 LAB WORK RELEASE #: 21040350

CUSTODY RECORD

Relinquished By Sampler: <u>Chalmer Bacon</u>	Date <u>10/22/01</u>	Time <u>1500</u>	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: <u>Wally Stet</u>

10/23/01 1000
 Cooler Temp: 3



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

EXXON Company U.S.A.

Certificate of Analysis Number:

01100882

<p>Report To: Environmental Resolution, Inc. Scott Graham 73 Digital Drive Suite 100</p> <p>Novato California 94949-</p> <p>ph: (415) 382-9105 fax: (415) 382-1856</p>	<p>Project Name: 243113X</p> <p>Site: 7-3567</p> <p>Site Address: 3192 Santa Rita Rd. Pleasanton CA</p> <p>PO Number: EWR#21040350</p> <p>State: California</p> <p>State Cert. No.: 1903</p> <p>Date Reported:</p>
<p>Fax To: Environmental Resolution, Inc. Scott Graham fax: (415) 382-1856</p>	

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
TB	01100882-01	Water	10/19/01	10/23/01 10:00:00 AM		<input type="checkbox"/>
BB	01100882-02	Water	10/19/01 11:45:00 AM	10/23/01 10:00:00 AM		<input type="checkbox"/>
BB	01100882-02	Water	10/19/01 11:45:00 AM	10/23/01 10:00:00 AM		<input checked="" type="checkbox"/>
MW2	01100882-03	Water	10/19/01 11:50:00 AM	10/23/01 10:00:00 AM		<input type="checkbox"/>
MW2	01100882-03	Water	10/19/01 11:50:00 AM	10/23/01 10:00:00 AM		<input checked="" type="checkbox"/>
MW6	01100882-04	Water	10/19/01 12:00:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
MW6	01100882-04	Water	10/19/01 12:00:00 PM	10/23/01 10:00:00 AM		<input checked="" type="checkbox"/>
MW5	01100882-05	Water	10/19/01 12:15:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
MW7	01100882-06	Water	10/19/01 12:25:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
MW4	01100882-07	Water	10/19/01 12:35:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
MW1	01100882-08	Water	10/19/01 12:50:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>
MW3	01100882-09	Water	10/19/01 1:00:00 PM	10/23/01 10:00:00 AM		<input type="checkbox"/>

Sonia West

Sonia West
 Senior Project Manager

11/2/01

Date

Joel Grice
 Laboratory Director

Ted Yen
 Quality Assurance Officer

01100882

EXXON COMPANY, USA.

(West Coast)

CHAIN OF CUSTODY RECORD NO. _____

Page 1 of 1

Exxon Engineer: Greg Wilcox Phone: 475-216-8747
 Consultant Co. Name: ERI Contact: Scott Franklin
 Address: 7300 Central Dr Fax: 415-342-1856
Novato CA 94949
 RAS #: 73567 Facility/State ID # (TN Only): _____
 AFE # (Terminal Only): _____ Consultant Project #: 243113X
 Location: 3192 Santa Rita Rd (City) Pleasanton (State) CA
 EE C&M SDT
 Consultant Work Release #: 21040350
 Sampled By: Chalyn Baker

ANALYSIS REQUEST: (CHECK APPROPRIATE BDX)

OTHER

NO. OF CONTAINERS	CONTAINER SIZE	ANALYSIS REQUEST (CHECK APPROPRIATE BDX)																																		
		TPHGC 8015 GROSS	8015 DROD	BTEX 8020	802	MTBE 8020	8280	OXYGENATES (T) 8260	O&G IR 4131	GRAY 4132	VOL. 8260	624	SEMI-VOL 8270	625	PNAPAH 8100	8310	8270	PCBPEST 8081/8082	PCB ONLY	TCLP FULL VOL 8010/8012	PESTO HERBIC	METALS, TOTAL	METALS, TCLP	LEAD, TOTAL 239.1	7421	LEAD, TCLP	LEAD, DISSOLVED	LEAD TOTAL	REACTIVITY	CORROSION	FLASH POINT	PURGEABLE HYDROCARBON 8010	601	TPHUR 418.1	TOX/TOH	
2	40	X	X	X																																
2	40																																			
1	40																																			
1	40																																			
1	40																																			
1	40																																			
1	40																																			
1	40																																			
1	40																																			

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE
					H ₂ O	SOIL	AIR		
TB				X	X				
BB	10/19	1145							
MW2		1150							
MW6		1250							
MW5		1215							
MW8									
MW7		1225							
MW4		1235							
MW1		1250							
MW3		1300							

TAT
 24 HR. _____ * 72 HR. _____
 48 HR. _____ * 96 HR. _____
 8 Business *Contact US Prior to Sending Sample
 Other _____

**EXXON UST
 CONTRACT NO.
 C41483**

SPECIAL DETECTION LIMITS (Specify)
 SPECIAL REPORTING REQUIREMENTS (Specify)
 PDF ~~EDD~~
 FAX FAX C-O-C W/REPORT

REMARKS: Request Silicon Gel Cleanup for all Diesel / Confirm MTBE using EPA Method 8000
 LAB USE ONLY Lot # 551B SO IEC
 Storage Location 8291072682334 3
 WORK ORDER # 0110882 LAB WORK RELEASE # 21040350

CUSTODY RECORD

Relinquished By Sampler: <u>Chalyn Baker</u>	Date <u>10/22/01</u>	Time <u>1500</u>	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: <u>Wally Star</u>

10/23/01 1000
Cooler Temp: 3

713 886 0034

11-2-01 3:39PM: SPL



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

Client Sample ID TB Collected: 10/19/01 SPL Sample ID: 01100882-01

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 12:22	DL	878378
Surr: 1,4-Difluorobenzene	98.3	% 62-144	1		10/25/01 12:22	DL	878378
Surr: 4-Bromofluorobenzene	96.7	% 44-153	1		10/25/01 12:22	DL	878378
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 12:22	DL	878291
Ethylbenzene	ND	0.5	1		10/25/01 12:22	DL	878291
Methyl tert-butyl ether	ND	2	1		10/25/01 12:22	DL	878291
Toluene	ND	0.5	1		10/25/01 12:22	DL	878291
m,p-Xylene	ND	0.5	1		10/25/01 12:22	DL	878291
o-Xylene	ND	0.5	1		10/25/01 12:22	DL	878291
Xylenes, Total	ND	0.5	1		10/25/01 12:22	DL	878291
Surr: 1,4-Difluorobenzene	108	% 72-137	1		10/25/01 12:22	DL	878291
Surr: 4-Bromofluorobenzene	95.0	% 48-156	1		10/25/01 12:22	DL	878291

Sonia West

West, Sonia
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID BB

Collected: 10/19/01 11:45:0 SPL Sample ID: 01100882-02

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	ND	50	1		11/01/01 1:04 AM		889747
Surr: n-Pentacosane	53.6	% 20-150	1		11/01/01 1:04 AM		889747

Run ID/Seq #: HP_V_011101B-889747

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 12:47 DL		878379
Surr: 1,4-Difluorobenzene	99.0	% 62-144	1		10/25/01 12:47 DL		878379
Surr: 4-Bromofluorobenzene	96.0	% 44-153	1		10/25/01 12:47 DL		878379

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 12:47 DL		878292
Ethylbenzene	ND	0.5	1		10/25/01 12:47 DL		878292
Methyl tert-butyl ether	ND	2	1		10/25/01 12:47 DL		878292
Toluene	ND	0.5	1		10/25/01 12:47 DL		878292
m,p-Xylene	ND	0.5	1		10/25/01 12:47 DL		878292
o-Xylene	ND	0.5	1		10/25/01 12:47 DL		878292
Xylenes, Total	ND	0.5	1		10/25/01 12:47 DL		878292
Surr: 1,4-Difluorobenzene	109	% 72-137	1		10/25/01 12:47 DL		878292
Surr: 4-Bromofluorobenzene	106	% 48-156	1		10/25/01 12:47 DL		878292

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878309

Sonia West

West, Sonia
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID MW2 Collected: 10/19/01 11:50:0 SPL Sample ID: 01100882-03

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA DRO	Units: ug/L		
Diesel Range Organics	ND	50	1		11/01/01 1:42 AM		889748
Surr: n-Pentacosane	65.2 %	20-150	1		11/01/01 1:42 AM		889748

Run ID/Seq #: HP_V_011101B-889748

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 13:11 DL		878380
Surr: 1,4-Difluorobenzene	97.0 %	62-144	1		10/25/01 13:11 DL		878380
Surr: 4-Bromofluorobenzene	97.0 %	44-153	1		10/25/01 13:11 DL		878380

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 13:11 DL		878295
Ethylbenzene	ND	0.5	1		10/25/01 13:11 DL		878295
Methyl tert-butyl ether	ND	2	1		10/25/01 13:11 DL		878295
Toluene	ND	0.5	1		10/25/01 13:11 DL		878295
m,p-Xylene	ND	0.5	1		10/25/01 13:11 DL		878295
o-Xylene	ND	0.5	1		10/25/01 13:11 DL		878295
Xylenes, Total	ND	0.5	1		10/25/01 13:11 DL		878295
Surr: 1,4-Difluorobenzene	105 %	72-137	1		10/25/01 13:11 DL		878295
Surr: 4-Bromofluorobenzene	106 %	48-156	1		10/25/01 13:11 DL		878295

SILICA GEL CLEANUP			MCL	SW3530C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878310

Sonia West

West, Sonia
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
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 (713) 660-0901

Client Sample ID MW6 Collected: 10/19/01 12:00:0 SPL Sample ID: 01100882-04

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS							
Diesel Range Organics	ND	50	1	CA_DRO	11/01/01 3:37 AM		889751
Surr: n-Pentacosane	62.8 %	20-150	1		11/01/01 3:37 AM		889751

Run ID/Seq #: HP_V_011101B-889751

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS							
Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Gasoline Range Organics	ND	50	1	CA_GRO	10/25/01 13:36 DL		878381
Surr: 1,4-Difluorobenzene	98.7 %	62-144	1		10/25/01 13:36 DL		878381
Surr: 4-Bromofluorobenzene	97.7 %	44-153	1		10/25/01 13:36 DL		878381

PURGEABLE AROMATICS							
Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Benzene	ND	0.5	1	SW8021B	10/25/01 13:36 DL		878296
Ethylbenzene	ND	0.5	1		10/25/01 13:36 DL		878296
Methyl tert-butyl ether	ND	2	1		10/25/01 13:36 DL		878296
Toluene	ND	0.5	1		10/25/01 13:36 DL		878296
m,p-Xylene	ND	0.5	1		10/25/01 13:36 DL		878296
o-Xylene	ND	0.5	1		10/25/01 13:36 DL		878296
Xylenes, Total	ND	0.5	1		10/25/01 13:36 DL		878296
Surr: 1,4-Difluorobenzene	107 %	72-137	1		10/25/01 13:36 DL		878296
Surr: 4-Bromofluorobenzene	106 %	48-156	1		10/25/01 13:36 DL		878296

SILICA GEL CLEANUP							
Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
Date Performed	10/24/01	0	1	SW3630C	09/24/01 0:00	KL	878311

Sonia West

West, Sonia
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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Client Sample ID MW5

Collected: 10/19/01 12:15:0 SPL Sample ID: 01100882-05

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	86	50	1		11/01/01 10:00	AM	889760
Surr: n-Pentacosane	60.8 %	20-150	1		11/01/01 10:00	AM	889760

Run ID/Seq #: HP_V_011101B-889760

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 14:00	DL	878382
Surr: 1,4-Difluorobenzene	98.3 %	62-144	1		10/25/01 14:00	DL	878382
Surr: 4-Bromofluorobenzene	97.3 %	44-153	1		10/25/01 14:00	DL	878382

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 14:00	DL	878297
Ethylbenzene	ND	0.5	1		10/25/01 14:00	DL	878297
Methyl tert-butyl ether	3.4	2	1		10/25/01 14:00	DL	878297
Toluene	ND	0.5	1		10/25/01 14:00	DL	878297
m,p-Xylene	ND	0.5	1		10/25/01 14:00	DL	878297
o-Xylene	ND	0.5	1		10/25/01 14:00	DL	878297
Xylenes, Total	ND	0.5	1		10/25/01 14:00	DL	878297
Surr: 1,4-Difluorobenzene	109 %	72-137	1		10/25/01 14:00	DL	878297
Surr: 4-Bromofluorobenzene	107 %	48-156	1		10/25/01 14:00	DL	878297

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00	KL	878312

VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	ND	5	1		10/27/01 3:49	JC	882384
Surr: 1,2-Dichloroethane-d4	100 %	62-130	1		10/27/01 3:49	JC	882384
Surr: 4-Bromofluorobenzene	100 %	70-130	1		10/27/01 3:49	JC	882384
Surr: Toluene-d8	98.0 %	74-122	1		10/27/01 3:49	JC	882384

Sonia West

West, Sonia
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 >MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference



HOUSTON LABORATORY
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Client Sample ID MW7

Collected: 10/19/01 12:25:0 SPL Sample ID: 01100882-06

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS							
Diesel Range Organics	120	50					
Surr: n-Pentacosane	59.6	% 20-150					

Run ID/Seq #: HP_V_011101B-889754

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS							
			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50					
Surr: 1,4-Difluorobenzene	98.7	% 62-144					
Surr: 4-Bromofluorobenzene	93.7	% 44-153					

PURGEABLE AROMATICS							
			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Methyl tert-butyl ether	4.9	2					
Toluene	ND	0.5					
m,p-Xylene	ND	0.5					
o-Xylene	ND	0.5					
Xylenes, Total	ND	0.5					
Surr: 1,4-Difluorobenzene	108	% 72-137					
Surr: 4-Bromofluorobenzene	107	% 48-156					

SILICA GEL CLEANUP							
			MCL	SW3630C	Units:		
Date Performed	10/24/01	0					

VOLATILE ORGANICS BY METHOD 8260B							
			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	ND	5					
Surr: 1,2-Dichloroethane-d4	100	% 62-130					
Surr: 4-Bromofluorobenzene	98.0	% 70-130					
Surr: Toluene-d8	98.0	% 74-122					

Sonia West

West, Sonia
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



HOUSTON LABORATORY
 8880 INTERCHANGE DRIVE
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Client Sample ID MW4 Collected: 10/19/01 12:35:0 SPL Sample ID: 01100882-07

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS							
Diesel Range Organics	71	50		1	11/01/01 10:38	AM	889761
Surr: n-Pentacosane	52.6 %	20-150		1	11/01/01 10:38	AM	889761

Run ID/Seq #: HP_V_011101B-889761

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS							
Gasoline Range Organics	ND	50		1	10/25/01 13:36	DL	878221
Surr: 1,4-Difluorobenzene	101 %	62-144		1	10/25/01 13:36	DL	878221
Surr: 4-Bromofluorobenzene	69.0 %	44-153		1	10/25/01 13:36	DL	878221

PURGEABLE AROMATICS							
Benzene	ND	0.5		1	10/25/01 13:36	DL	878206
Ethylbenzene	ND	0.5		1	10/25/01 13:36	DL	878206
Methyl tert-butyl ether	16	2		1	10/25/01 13:36	DL	878206
Toluene	ND	0.5		1	10/25/01 13:36	DL	878206
m,p-Xylene	ND	0.5		1	10/25/01 13:36	DL	878206
o-Xylene	ND	0.5		1	10/25/01 13:36	DL	878206
Xylenes, Total	ND	0.5		1	10/25/01 13:36	DL	878206
Surr: 1,4-Difluorobenzene	98.4 %	72-137		1	10/25/01 13:36	DL	878206
Surr: 4-Bromofluorobenzene	93.3 %	48-156		1	10/25/01 13:36	DL	878206

SILICA GEL CLEANUP							
Date Performed	10/24/01	0		1	09/24/01 0:00	KL	878314

VOLATILE ORGANICS BY METHOD 8260B							
Methyl tert-butyl ether	16	5		1	10/27/01 4:47	JC	882386
Surr: 1,2-Dichloroethane-d4	102 %	62-130		1	10/27/01 4:47	JC	882386
Surr: 4-Bromofluorobenzene	98.0 %	70-130		1	10/27/01 4:47	JC	882386
Surr: Toluene-d8	98.0 %	74-122		1	10/27/01 4:47	JC	882386

Sonia West

West, Sonia
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte detected in the associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated Value between MDL and PQL



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

Client Sample ID MW1

Collected: 10/19/01 12:50:0 SPL Sample ID: 01100882-08

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			MCL	CA_DRO	Units: ug/L		
Diesel Range Organics	ND	50	1		11/01/01 4:15 AM		889752
Surr: n-Pentacosane	63.4 %	20-150	1		11/01/01 4:15 AM		889752

Run ID/Seq #: HP_V_011101B-889752

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	ND	50	1		10/25/01 14:02 DL		878223
Surr: 1,4-Difluorobenzene	99.0 %	62-144	1		10/25/01 14:02 DL		878223
Surr: 4-Bromofluorobenzene	73.7 %	44-153	1		10/25/01 14:02 DL		878223

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/25/01 14:02 DL		878209
Ethylbenzene	ND	0.5	1		10/25/01 14:02 DL		878209
Methyl tert-butyl ether	390	2	1		10/25/01 14:02 DL		878209
Toluene	ND	0.5	1		10/25/01 14:02 DL		878209
m,p-Xylene	ND	0.5	1		10/25/01 14:02 DL		878209
o-Xylene	ND	0.5	1		10/25/01 14:02 DL		878209
Xylenes, Total	ND	0.5	1		10/25/01 14:02 DL		878209
Surr: 1,4-Difluorobenzene	99.8 %	72-137	1		10/25/01 14:02 DL		878209
Surr: 4-Bromofluorobenzene	92.4 %	48-156	1		10/25/01 14:02 DL		878209

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0	1		09/24/01 0:00 KL		878315

VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	420	25	5		10/27/01 5:16 JC		882387
Surr: 1,2-Dichloroethane-d4	96.0 %	62-130	5		10/27/01 5:16 JC		882387
Surr: 4-Bromofluorobenzene	96.0 %	70-130	5		10/27/01 5:16 JC		882387
Surr: Toluene-d8	96.0 %	74-122	5		10/27/01 5:16 JC		882387

Sonia West

West, Sonia
Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

01100882 Page 9

11/2/01 11:12:54 AM



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

Client Sample ID MW3 Collected: 10/19/01 1:00:00 SPL Sample ID: 01100882-09

Site: 7-3567

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS							
Diesel Range Organics	ND	50					
Surr: n-Pentacosane	64.2 %	20-150					

Run ID/Seq #: HP_V_011101B-889755

Prep Method	Prep Date	Prep Initials
SW3510B	10/24/2001 8:50	KL

GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	ND	50					
Surr: 1,4-Difluorobenzene	97.7 %	62-144					
Surr: 4-Bromofluorobenzene	78.3 %	44-153					

PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5					
Ethylbenzene	ND	0.5					
Methyl tert-butyl ether	180	2					
Toluene	ND	0.5					
m,p-Xylene	ND	0.5					
o-Xylene	ND	0.5					
Xylenes, Total	ND	0.5					
Surr: 1,4-Difluorobenzene	98.3 %	72-137					
Surr: 4-Bromofluorobenzene	93.0 %	48-156					

SILICA GEL CLEANUP			MCL	SW3630C	Units:		
Date Performed	10/24/01	0					

VOLATILE ORGANICS BY METHOD 8260B			MCL	SW8260B	Units: ug/L		
Methyl tert-butyl ether	190	5					
Surr: 1,2-Dichloroethane-d4	102 %	62-130					
Surr: 4-Bromofluorobenzene	96.0 %	70-130					
Surr: Toluene-d8	98.0 %	74-122					

Sonia West

West, Sonia
 Project Manager

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte detected in the associated Method Blank
 * - Surrogate Recovery Outside Advisable QC Limits
 J - Estimated Value between MDL and PQL
 >MCL - Result Over Maximum Contamination Limit(MCL)
 D - Surrogate Recovery Unreportable due to Dilution
 MI - Matrix Interference