

ExxonMobil
Refining & Supply Company
Global Remediation

Gene N. Ortega
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ExxonMobil
Refining & Supply

MAR 06 2002

March 5, 2002

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

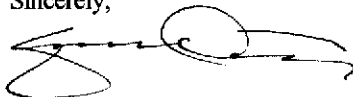
RE: Former Exxon RAS #7-0235/2225 Telegraph Avenue, Oakland, California.

Dear Mr. Hwang:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring Report, Fourth Quarter 2001*, dated February 28, 2002, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and presents the details of monitoring and sampling activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8747.

Sincerely,

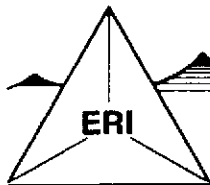


Gene N. Ortega
Territory Manager

Attachment: ERI's Quarterly Groundwater Monitoring Report, Fourth Quarter 2001, dated February 28, 2002.

cc: w/ attachment
Mr. Stephen Hill, 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.



ENVIRONMENTAL RESOLUTIONS, INC.

February 28, 2002
ERI 222913.R16

Mr. Gene Ortega
ExxonMobil Oil Corporation
2300 Clayton Road, Suite 1250
Concord, California 94520

Subject: Quarterly Groundwater Monitoring Report, Fourth Quarter 2001, Former Exxon Service Station 7-0235, 2225 Telegraph Avenue, Oakland, California.

Mr. Ortega:

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 concentrations of dissolved hydrocarbons in groundwater and groundwater flow direction and hydraulic gradient. The site location is shown on the Site Vicinity Map (Plate 1). Select site features are shown on the Generalized Site Plan (Plate 2).

GROUNDWATER MONITORING AND SAMPLING

On October 3, 2001, ERI measured depth to water (DTW) and collected groundwater samples from select wells for laboratory analyses. Work was performed in accordance with ERI's groundwater sampling protocol provided in Attachment A.

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); 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 provided in Attachment C. Cumulative results of laboratory analyses of groundwater samples are summarized in Table 1. The results of analyses of groundwater samples collected during the recent sampling event are shown on Plate 2.

DOCUMENT DISTRIBUTION

ERI recommends forwarding copies of this report to:

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

Mr. Stephen Hill
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

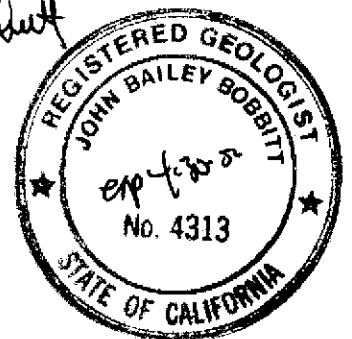
This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for ExxonMobil, and any reliance on this report by third parties shall be at such party's sole risk.

Please call Ms. Paula Sime, ERI's senior staff geologist for this site, at (415) 382-4324 if you have any questions or comments regarding this report.

Sincerely,
Environmental Resolutions, Inc.

Lyz A. Cullmann
Lyz A. Cullmann
Staff Geologist

John B. Bobbitt
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

Attachment A: Groundwater Sampling Protocol

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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0235
2225 Telegraph Avenue
Oakland, California
(Page 2 of 7)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet.....>	Elev.	TPHg <.....>	MTBE	B ug/L.....>	T	E	X	TPHmo <...mg/L...>
MW6E (cont.) (21.58)	07/27/99	NLPH	13.65	7.93	---	---	---	---	---	---	---
	10/25/99	NLPH	13.52	8.06	<50	2.5	<0.5	<0.5	<0.5	<0.5	---
	01/27/00	NLPH	11.71	9.87	<50	2.3	<0.5	<0.5	<0.5	<0.5	---
	04/03/00	NLPH	12.11	9.47	<50	<2	0.51	<0.5	<0.5	<0.5	---
	07/05/00	NLPH	12.91	8.67	<50	<2	3.7	<0.5	<0.5	<0.5	---
	10/04/00	NLPH	13.35	8.23	<50	<2	4.1	<0.5	<0.5	<0.5	---
	10/05/00	---	---	---	---	---	---	---	---	---	<1
	01/04/01	NLPH	13.09	8.49	61	<2	11	<0.5	<0.5	<0.5	---
	04/03/01	NLPH	12.39	9.19	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	07/05/01	NLPH	13.21	8.37	210	<2	80	<0.5	0.94	2.3	---
	10/03/01	NLPH	13.30	8.28	<50	<2	2.8	<0.5	<0.5	<0.5	---
MW6F (18.58) (22.51)	11/26/96	NLPH	13.29	5.29	<50	<30	<0.5	<0.5	<0.5	<0.5	---
	02/27/97	---	---	---	---	---	---	---	---	---	---
	05/21/97	NLPH	14.18	4.40	---	---	---	---	---	---	---
	08/18/97	NLPH	14.69	3.89	---	---	---	---	---	---	---
	03/13/98	NLPH	10.93	7.65	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
	04/20/98	NLPH	11.77	6.81	---	---	---	---	---	---	---
	07/21/98	NLPH	13.62	8.89	---	---	---	---	---	---	---
	10/06/98	NLPH	13.52	8.99	---	---	---	---	---	---	---
	01/11/99	NLPH	14.06	8.45	---	---	---	---	---	---	---
	04/08/99	NLPH	11.86	10.65	---	---	---	---	---	---	---
	07/19/99	---	---	---	---	---	---	---	---	---	---
	07/27/99	Well Inaccessible	---	---	---	---	---	---	---	---	---
	10/25/99	NLPH	12.63	9.88	---	---	---	---	---	---	---
	01/27/00	NLPH	12.23	10.28	---	---	---	---	---	---	---
	04/03/00	NLPH	12.11	10.40	---	---	---	---	---	---	---
	07/05/00	NLPH	13.38	9.13	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	10/04/00	NLPH	14.02	8.49	<50	<2	<0.5	<0.5	<0.5	0.7	---
	10/05/00	---	---	---	---	---	---	---	---	---	<1
	01/04/01	NLPH	13.69	8.82	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	04/03/01	NLPH	12.55	9.96	<50	<2	<0.5	<0.5	<0.5	<0.5	---
07/05/01	NLPH	13.74	8.77	<50	<2	<0.5	<0.5	<0.5	<0.5	---	
10/03/01	NLPH	13.82	8.69	<50	<2	<0.5	<0.5	<0.5	<0.5	---	

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0235
 2225 Telegraph Avenue
 Oakland, California
 (Page 3 of 7)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet.....>	Elev.	TPHg <.....>	MTBE	B ug/L.....>	T	E	X	TPHmo <...mg/L...>
MW6G (16.82)	11/26/96	NLPH	11.12	5.70	<50	<30	<0.5	<0.5	<0.5	<0.5	---
	02/27/97	---	---	---	---	---	---	---	---	---	---
	05/21/97	NLPH	11.76	5.06	---	---	---	---	---	---	---
	08/18/97	NLPH	12.23	4.59	---	---	---	---	---	---	---
	03/13/98	NLPH	9.13	7.69	<50	4.4	<0.5	<0.5	<0.5	<0.5	---
	04/20/98	NLPH	9.73	7.09	---	---	---	---	---	---	---
	07/21/98	NLPH	11.15	9.57	---	---	---	---	---	---	---
	10/06/98	NLPH	11.91	8.81	---	---	---	---	---	---	---
	01/11/99	NLPH	12.00	8.72	---	---	---	---	---	---	---
	04/08/99	NLPH	10.04	10.68	---	---	---	---	---	---	---
	07/19/99	---	---	---	---	---	---	---	---	---	---
	07/27/99	NLPH	11.75	8.97	---	---	---	---	---	---	---
	10/25/99	NLPH	11.76	8.96	---	---	---	---	---	---	---
	01/27/00	NLPH	11.46	9.26	---	---	---	---	---	---	---
	04/03/00	NLPH	10.00	10.72	---	---	---	---	---	---	---
	07/05/00	NLPH	11.24	9.48	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	10/04/00	NLPH	11.88	8.84	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	10/05/00	---	---	---	---	---	---	---	---	---	<1
	01/04/01	NLPH	11.56	9.16	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	04/03/01	NLPH	10.45	10.27	<50	<2	<0.5	<0.5	<0.5	<0.5	---
07/05/01	NLPH	11.51	9.21	<50	<2	0.75	<0.5	<0.5	<0.5	---	
10/03/01	NLPH	11.63	9.09	<50	<2	<0.5	<0.5	<0.5	<0.5	---	
MW6H (16.58)	11/26/96	NLPH	11.87	4.71	1,200	<30	320	110	22	85	---
	02/27/97	NLPH	11.58	5.00	1,800	<200	760	31	8.4	44	---
	05/21/97	NLPH	12.23	4.35	1,100	81	640	18	5.4	45	---
	08/18/97	NLPH	12.29	4.29	870	26	200	3.6	2.4	7.4	---
	03/13/98	NLPH	12.29	16.58	5,300	<125	1,900	720	100	470	---
	04/20/98	NLPH	11.58	5.00	6,000	2,700	1,500	600	91	440	---
	07/21/98	NLPH	11.97	8.5	2,200	1,600	740	44	15	63	---
	10/06/98	NLPH	12.23	8.24	5,400	3,000	1,900	<25	<25	76	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0235
2225 Telegraph Avenue
Oakland, California
(Page 4 of 7)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev.	TPHg <.....>	MTBE <.....>	B ug/L	T <.....>	E <.....>	X <.....>	TPHmo <...mg/L...>
MW6H (cont.) (20.47)	01/11/99	NLPH	12.17	8.30	2,600	4,300	1,200	<12	<12	20	---
	04/08/99	NLPH	11.56	8.91	13,000	13,000	3,400	1,300	260	1,200	---
	07/19/99	NLPH	11.71	8.76	<2,000	6,920/8,520a	732	<20	<20	<20	---
	07/27/99	NLPH	12.39	8.08	---	---	---	---	---	---	---
	10/25/99	NLPH	12.16	8.31	700	4,000	360	1.1	0.68	2	---
	01/27/00	NLPH	11.60	8.87	9,100	7,600	2,400	840	150	670	---
	04/03/00	NLPH	11.62	8.85	12,000	8,800	2,800	1,100	230	1,020	---
	07/05/00	NLPH	11.93	8.54	12,000	8,000	1,200	56	13	92	---
	10/04/00	NLPH	12.16	8.31	4,400	8,400	1,500	23	12	80.6	---
	10/05/00	---	---	---	---	---	---	---	---	---	<1
	01/04/01	NLPH	12.03	8.44	2,300	3,800	880	15	6.4	33.9	---
	04/03/01	NLPH	11.73	8.74	7,800	5,100	2,000	730	140	590	---
	07/05/01	NLPH	11.98	8.49	2,300	3,200	630	25	10	40.8	---
	10/03/01	NLPH	12.1	8.37	1,400	550	270	5.6	4.2	11.6	---
	MW6I (16.26) (20.24)	11/26/96	NLPH	12.45	3.81	<50	<30	<0.5	<0.5	<0.5	<0.5
02/27/97		NLPH	12.24	4.02	<50	<30	<0.5	<0.5	<0.5	<0.5	---
05/21/97		NLPH	12.82	3.44	<50	<30	<0.5	<0.5	<0.5	<0.5	---
08/18/97		NLPH	12.81	3.45	<50	<30	<0.5	<0.5	<0.5	<0.5	---
03/13/98		---	---	---	---	---	---	---	---	---	---
04/20/98		NLPH	12.14	4.12	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
07/21/98		NLPH	12.59	7.65	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
10/06/98		NLPH	12.81	7.43	---	---	---	---	---	---	---
01/11/99		NLPH	12.74	7.50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
04/08/99		NLPH	11.93	8.31	---	---	---	---	---	---	---
07/19/99		NLPH	11.75	8.49	281	17.6	35.4	9.1	7.4	30.7	---
07/27/99		NLPH	12.95	7.29	---	---	---	---	---	---	---
10/25/99		NLPH	12.79	7.45	---	---	---	---	---	---	---
01/27/00		NLPH	12.06	8.18	<50	<2	<0.5	<0.5	<0.5	<0.5	---
04/03/00		NLPH	12.24	8.00	---	---	---	---	---	---	---
07/05/00	NLPH	12.48	7.76	<50	<2	<0.5	<0.5	<0.5	<0.5	---	
10/04/00	---	---	---	---	---	---	---	---	---	---	
10/05/00	---	---	---	---	---	---	---	---	---	<1	
01/04/01	NLPH	12.54	7.70	<50	<2	<0.5	<0.5	<0.5	<0.5	---	

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0235
 2225 Telegraph Avenue
 Oakland, California
 (Page 6 of 7)

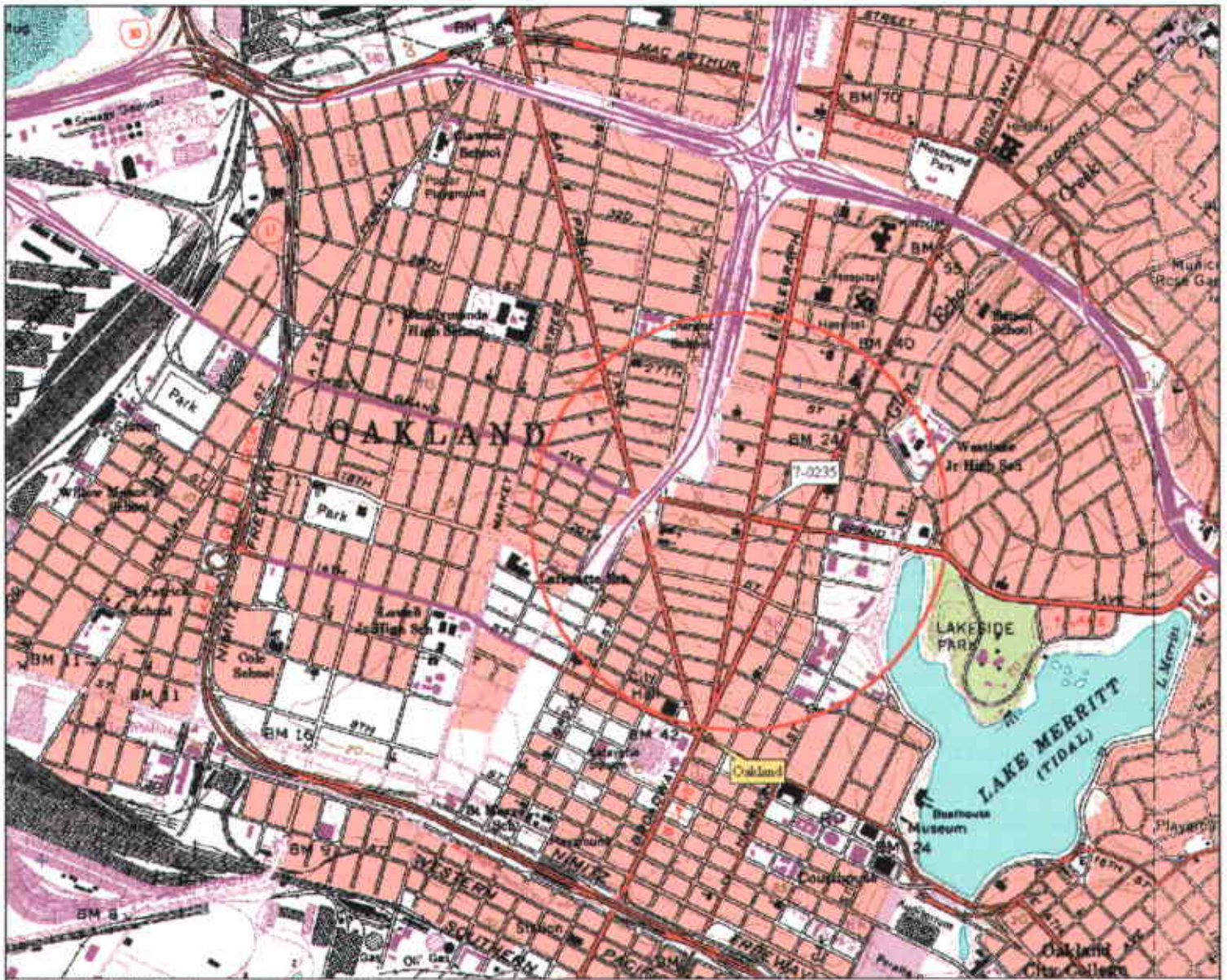
Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet.....>	Elev.	TPHg <.....>	MTBE <.....>	B ug/L.....>	T <.....>	E <.....>	X <.....>	TPHmo <..mg/L..>	
RW2 (cont.) (20.44)	10/25/99	NLPH	12.96	7.48	1,800	440	51	<0.5	4.7	9.5	---	
	01/27/00	NLPH	12.70	7.74	1,900	750	38	<2.5	4.8	10.4	---	
	04/03/00	NLPH	11.97	8.47	2,100	300	28	2.4	1.4	0.73	---	
	07/05/00	NLPH	12.50	7.94	2,300	230	20	<2.5	5.3	8	---	
	10/04/00	NLPH	12.97	7.47	1,300	570	42	<2.5	15	17.7	---	
	10/05/00	---	---	---	---	---	---	---	---	---	<1	
	01/04/01	NLPH	13.71	6.73	1,000	380	33	<2.5	13	17.7	---	
	04/03/01	NLPH	12.10	8.34	1,300	99	18	2.1	16	19.4	---	
	07/05/01	not sampled: inaccessible		---	---	---	---	---	---	---	---	---
	10/03/01	NLPH	12.8	7.64	1,900	240	35	4.4	34	105	---	
RW3A (21.75)	Not Monitored 6/16/92 through 4/20/98.											
	07/21/98	NLPH	13.08	8.67	280	16	97	<1.2	<1.2	<1.2	---	
	10/06/98	NLPH	13.72	8.03	78	26	26	0.89	<0.5	<0.5	---	
	01/11/99	NLPH	12.00	9.75	1,000	230	490	5.0	<5.0	7.4	---	
	04/08/99	NLPH	11.90	9.85	130	11	70	<1.0	<1.0	<1.0	---	
	07/19/99	NLPH	11.75	10.00	989	16.4	393	6.40	5.70	15.0	---	
	07/27/99	NLPH	13.68	8.07	---	---	---	---	---	---	---	
	10/25/99	NLPH	13.61	8.14	150	19	53	<0.5	<0.5	<0.5	---	
	01/27/00	NLPH	12.22	9.53	500	12	210	0.59	1.40	2.29	---	
	04/03/00	NLPH	12.00	9.75	1,100	16	420	1.6	1.8	1.4	---	
	07/05/00	NLPH	13.01	8.74	1,200	16	440	1.4	2.5	1.9	---	
	10/04/00	NLPH	13.60	8.15	390	8.3	160	1.1	1.5	2.6	---	
	10/05/00	---	---	---	---	---	---	---	---	---	<1	
	01/04/01	NLPH	13.65	8.10	500	12	230	0.97	1.1	1.4	---	
	04/03/01	NLPH	12.30	9.45	710	7.5	290	<0.5	<0.5	<0.5	---	
	07/05/01	NLPH	13.28	8.47	640	9	280	1.4	1.6	2.7	---	
	10/03/01	NLPH	13.58	8.17	<50	12	21	<0.5	<0.5	<0.5	---	

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0235
2225 Telegraph Avenue
Oakland, California
(Page 7 of 7)

Notes:

SUBJ	=	Results of subjective evaluation.
NLPH	=	No liquid-phase hydrocarbons present in well.
sheen	=	Liquid-phase hydrocarbon present as sheen.
TOC	=	Elevation of top of well casing; relative to mean sea level.
DTW	=	Depth to water.
Elev.	=	Elevation of groundwater surface; relative to mean sea level.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 5030/8015 (modified).
TPHmo	=	Total petroleum hydrocarbons as motor oil using EPA Method 8015B.
MTBE	=	Methyl tertiary butyl ether analyzed using EPA Method 8021B.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8021B.
<	=	Less than the indicated detection limit shown by the laboratory.
---	=	Not measured or sampled.
a	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B.
mg/L	=	Milligrams per liter.
ug/L	=	Micrograms per liter.

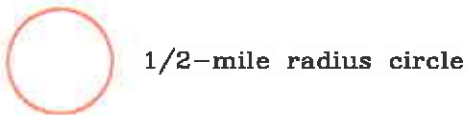
Sampling discontinued for wells MW6F, MW6G, and RW1 per Alameda County Health Services Agency letter dated June 1, 1998.



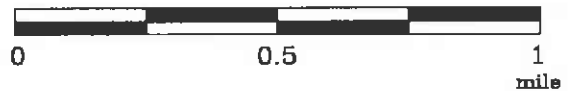
3-D TopoQuads Copyright © 1997 DeLorme Yarmouth, ME 04091 Source Data: USGS
 1:25,000 Scale 1:17,200 Contal: 13.8 Datum: WGS84

FN 2229Topo

EXPLANATION



APPROXIMATE SCALE



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

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-0235
 2225 Telegraph Avenue
 Oakland, California

PROJECT NO.

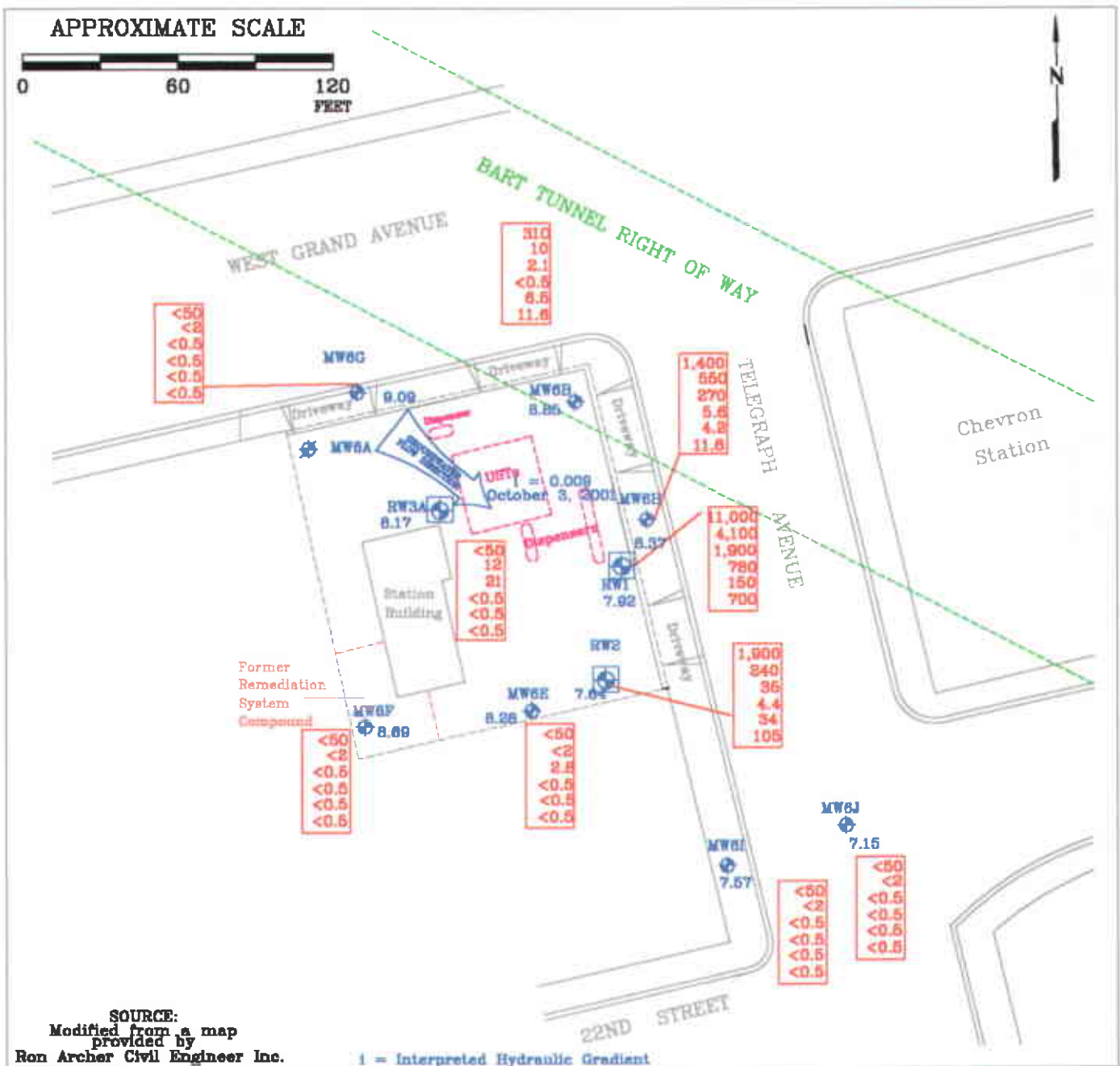
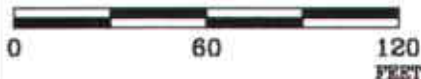
2229

PLATE

1



APPROXIMATE SCALE



SOURCE:
 Modified from a map
 provided by
 Ron Archer Civil Engineer Inc.

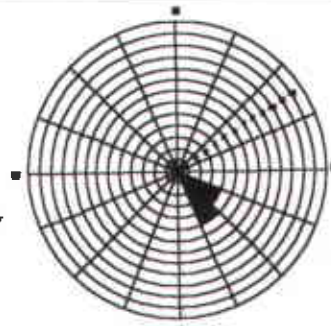
FN 22290003

EXPLANATION

- MW6P
 Groundwater Monitoring Well
- MW6A
 Destroyed Groundwater Monitoring Well
- RW3A
 Groundwater Recovery Well

Groundwater Concentrations in ug/L
 Sampled October 3, 2001

- 2,300 Total Petroleum Hydrocarbons as gasoline
- 3,200 Methyl Tertiary Butyl Ether
- 630 Benzene
- 25 Toluene
- 10 Ethylbenzene
- 40.8 Total Xylenes
- < Less Than the Stated Laboratory Detection Limit
- ug/L Micrograms per Liter
- NS Not Sampled



GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-0235
 2225 Telegraph Avenue
 Oakland, California

PROJECT NO.

2229

PLATE

2

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

LABORATORY ANALYSIS REPORT

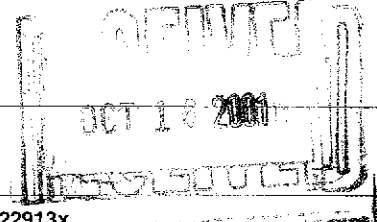
AND CHAIN-OF-CUSTODY RECORD



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

EXXON Company U.S.A.

Certificate of Analysis Number:
01100208



Report To: Environmental Resolution, Inc. Scott Thompson 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856	Project Name: 222913x Site: 7-0235 Site Address: 2225 Telegraph Ave. Oakland CA PO Number: EWR#21040346 State: California State Cert. No.: 1903 Date Reported: 10/10/01
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This Report Contains A Total Of 20 Pages

Excluding This Page

And

Chain Of Custody

10/10/01

Date



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

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

Certificate of Analysis Number:
01100208

<u>Report To:</u> Environmental Resolution, Inc. Scott Thompson 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856	<u>Project Name:</u> 222913x <u>Site:</u> 7-0235 <u>Site Address:</u> 2225 Telegraph Ave. Oakland CA <u>PO Number:</u> EWR#21040346 <u>State:</u> California <u>State Cert. No.:</u> 1903 <u>Date Reported:</u> 10/10/01
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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
 Sonia West
 Senior Project Manager



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

EXXON Company U.S.A.

Certificate of Analysis Number:
01100208

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

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

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

Project Name: 222913x
Site: 7-0235
Site Address: 2225 Telegraph Ave.
 Oakland CA
PO Number: EWR#21040346
State: California
State Cert. No.: 1903
Date Reported: 10/10/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
TB 9/28/01	01100208-01	Water	10/3/01	10/5/01 10:00:00 AM		<input type="checkbox"/>
BB	01100208-02	Water	10/3/01 10:49:00 AM	10/5/01 10:00:00 AM		<input type="checkbox"/>
MW6J	01100208-03	Water	10/3/01 10:52:00 AM	10/5/01 10:00:00 AM		<input type="checkbox"/>
MW6I	01100208-04	Water	10/3/01 3:55:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>
MW6F	01100208-05	Water	10/3/01 4:01:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>
MW6G	01100208-06	Water	10/3/01 4:17:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>
MW6E	01100208-07	Water	10/3/01 4:20:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>
RW3A	01100208-08	Water	10/3/01 1:45:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>
MW6B	01100208-09	Water	10/3/01 4:40:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>
RW2	01100208-10	Water	10/3/01 4:48:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>
RW1	01100208-11	Water	10/3/01 4:52:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>
MW6H	01100208-12	Water	10/3/01 4:58:00 PM	10/5/01 10:00:00 AM		<input type="checkbox"/>

Sonia West
 Sonia West
 Senior Project Manager

10/10/01

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 9/28/01

Collected: 10/3/01

SPL Sample ID: 01100208-01

Site: 7-0235

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	10/09/01 1:43	DL	855782
Surr: 1,4-Difluorobenzene	97.3	% 62-144		1	10/09/01 1:43	DL	855782
Surr: 4-Bromofluorobenzene	95.7	% 44-153		1	10/09/01 1:43	DL	855782
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5		1	10/09/01 1:43	DL	855592
Ethylbenzene	ND	0.5		1	10/09/01 1:43	DL	855592
Methyl tert-butyl ether	ND	2		1	10/09/01 1:43	DL	855592
Toluene	ND	0.5		1	10/09/01 1:43	DL	855592
m,p-Xylene	ND	0.5		1	10/09/01 1:43	DL	855592
o-Xylene	ND	0.5		1	10/09/01 1:43	DL	855592
Xylenes, Total	ND	0.5		1	10/09/01 1:43	DL	855592
Surr: 1,4-Difluorobenzene	108	% 72-137		1	10/09/01 1:43	DL	855592
Surr: 4-Bromofluorobenzene	107	% 48-156		1	10/09/01 1:43	DL	855592

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 BB

Collected: 10/3/01 10:49:00 SPL Sample ID: 01100208-02

Site: 7-0235

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		10/09/01 2:08	DL	855783
Surr: 1,4-Difluorobenzene	98.7	% 62-144	1		10/09/01 2:08	DL	855783
Surr: 4-Bromofluorobenzene	98.0	% 44-153	1		10/09/01 2:08	DL	855783
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/09/01 2:08	DL	855595
Ethylbenzene	ND	0.5	1		10/09/01 2:08	DL	855595
Methyl tert-butyl ether	ND	2	1		10/09/01 2:08	DL	855595
Toluene	ND	0.5	1		10/09/01 2:08	DL	855595
m,p-Xylene	ND	0.5	1		10/09/01 2:08	DL	855595
o-Xylene	ND	0.5	1		10/09/01 2:08	DL	855595
Xylenes, Total	ND	0.5	1		10/09/01 2:08	DL	855595
Surr: 1,4-Difluorobenzene	110	% 72-137	1		10/09/01 2:08	DL	855595
Surr: 4-Bromofluorobenzene	106	% 48-156	1		10/09/01 2:08	DL	855595

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte detected in the associated Method Blank
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 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 MW6J

Collected: 10/3/01 10:52:00 SPL Sample ID: 01100208-03

Site: 7-0235

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		10/08/01 22:03	DL	855752
Surr: 1,4-Difluorobenzene	97.0	% 62-144	1		10/08/01 22:03	DL	855752
Surr: 4-Bromofluorobenzene	93.3	% 44-153	1		10/08/01 22:03	DL	855752
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/08/01 22:03	DL	855580
Ethylbenzene	ND	0.5	1		10/08/01 22:03	DL	855580
Methyl tert-butyl ether	ND	2	1		10/08/01 22:03	DL	855580
Toluene	ND	0.5	1		10/08/01 22:03	DL	855580
m,p-Xylene	ND	0.5	1		10/08/01 22:03	DL	855580
o-Xylene	ND	0.5	1		10/08/01 22:03	DL	855580
Xylenes, Total	ND	0.5	1		10/08/01 22:03	DL	855580
Surr: 1,4-Difluorobenzene	110	% 72-137	1		10/08/01 22:03	DL	855580
Surr: 4-Bromofluorobenzene	104	% 48-156	1		10/08/01 22:03	DL	855580

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 MW61 Collected: 10/3/01 3:55:00 SPL Sample ID: 01100208-04

Site: 7-0235

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		10/08/01 22:27	DL	855757
Surr: 1,4-Difluorobenzene	98.0	% 62-144	1		10/08/01 22:27	DL	855757
Surr: 4-Bromofluorobenzene	98.0	% 44-153	1		10/08/01 22:27	DL	855757
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/08/01 22:27	DL	855582
Ethylbenzene	ND	0.5	1		10/08/01 22:27	DL	855582
Methyl tert-butyl ether	ND	2	1		10/08/01 22:27	DL	855582
Toluene	ND	0.5	1		10/08/01 22:27	DL	855582
m,p-Xylene	ND	0.5	1		10/08/01 22:27	DL	855582
o-Xylene	ND	0.5	1		10/08/01 22:27	DL	855582
Xylenes,Total	ND	0.5	1		10/08/01 22:27	DL	855582
Surr: 1,4-Difluorobenzene	106	% 72-137	1		10/08/01 22:27	DL	855582
Surr: 4-Bromofluorobenzene	108	% 48-156	1		10/08/01 22:27	DL	855582

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 MW6F

Collected: 10/3/01 4:01:00

SPL Sample ID: 01100208-05

Site: 7-0235

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		10/08/01 22:52	DL	855766
Surr: 1,4-Difluorobenzene	98.7	% 62-144	1		10/08/01 22:52	DL	855766
Surr: 4-Bromofluorobenzene	96.7	% 44-153	1		10/08/01 22:52	DL	855766
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/08/01 22:52	DL	855583
Ethylbenzene	ND	0.5	1		10/08/01 22:52	DL	855583
Methyl tert-butyl ether	ND	2	1		10/08/01 22:52	DL	855583
Toluene	ND	0.5	1		10/08/01 22:52	DL	855583
m,p-Xylene	ND	0.5	1		10/08/01 22:52	DL	855583
o-Xylene	ND	0.5	1		10/08/01 22:52	DL	855583
Xylenes, Total	ND	0.5	1		10/08/01 22:52	DL	855583
Surr: 1,4-Difluorobenzene	107	% 72-137	1		10/08/01 22:52	DL	855583
Surr: 4-Bromofluorobenzene	107	% 48-156	1		10/08/01 22:52	DL	855583

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 MW6G

Collected: 10/3/01 4:17:00

SPL Sample ID: 01100208-06

Site: 7-0235

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		10/08/01 23:17	DL	855772
Surr: 1,4-Difluorobenzene	100	% 62-144	1		10/08/01 23:17	DL	855772
Surr: 4-Bromofluorobenzene	99.0	% 44-153	1		10/08/01 23:17	DL	855772
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/08/01 23:17	DL	855584
Ethylbenzene	ND	0.5	1		10/08/01 23:17	DL	855584
Methyl tert-butyl ether	ND	2	1		10/08/01 23:17	DL	855584
Toluene	ND	0.5	1		10/08/01 23:17	DL	855584
m,p-Xylene	ND	0.5	1		10/08/01 23:17	DL	855584
o-Xylene	ND	0.5	1		10/08/01 23:17	DL	855584
Xylenes, Total	ND	0.5	1		10/08/01 23:17	DL	855584
Surr: 1,4-Difluorobenzene	107	% 72-137	1		10/08/01 23:17	DL	855584
Surr: 4-Bromofluorobenzene	106	% 48-156	1		10/08/01 23:17	DL	855584

Qualifiers:

ND/U - Not Detected at the Reporting Limit
 B - Analyte detected in the associated Method Blank
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 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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 HOUSTON, TX 77054
 (713) 660-0901

Client Sample ID MW6E

Collected: 10/3/01 4:20:00

SPL Sample ID: 01100208-07

Site: 7-0235

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		10/08/01 23:41	DL	855777
Surr: 1,4-Difluorobenzene	96.3	% 62-144	1		10/08/01 23:41	DL	855777
Surr: 4-Bromofluorobenzene	96.0	% 44-153	1		10/08/01 23:41	DL	855777
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	2.8	0.5	1		10/08/01 23:41	DL	855586
Ethylbenzene	ND	0.5	1		10/08/01 23:41	DL	855586
Methyl tert-butyl ether	ND	2	1		10/08/01 23:41	DL	855586
Toluene	ND	0.5	1		10/08/01 23:41	DL	855586
m,p-Xylene	ND	0.5	1		10/08/01 23:41	DL	855586
o-Xylene	ND	0.5	1		10/08/01 23:41	DL	855586
Xylenes, Total	ND	0.5	1		10/08/01 23:41	DL	855586
Surr: 1,4-Difluorobenzene	106	% 72-137	1		10/08/01 23:41	DL	855586
Surr: 4-Bromofluorobenzene	108	% 48-156	1		10/08/01 23:41	DL	855586

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 RW3A

Collected: 10/3/01 1:45:00

SPL Sample ID: 01100208-08

Site: 7-0235

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		10/09/01 2:33	DL	855785
Surr: 1,4-Difluorobenzene	101	% 62-144	1		10/09/01 2:33	DL	855785
Surr: 4-Bromofluorobenzene	92.7	% 44-153	1		10/09/01 2:33	DL	855785
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	21	0.5	1		10/09/01 2:33	DL	855596
Ethylbenzene	ND	0.5	1		10/09/01 2:33	DL	855596
Methyl tert-butyl ether	12	2	1		10/09/01 2:33	DL	855596
Toluene	ND	0.5	1		10/09/01 2:33	DL	855596
m,p-Xylene	ND	0.5	1		10/09/01 2:33	DL	855596
o-Xylene	ND	0.5	1		10/09/01 2:33	DL	855596
Xylenes, Total	ND	0.5	1		10/09/01 2:33	DL	855596
Surr: 1,4-Difluorobenzene	113	% 72-137	1		10/09/01 2:33	DL	855596
Surr: 4-Bromofluorobenzene	98.9	% 48-156	1		10/09/01 2:33	DL	855596

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 MW6B

Collected: 10/3/01 4:40:00

SPL Sample ID: 01100208-09

Site: 7-0235

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA_GRO	Units: ug/L		
Gasoline Range Organics	310	50	1		10/09/01 2:57	DL	855787
Surr: 1,4-Difluorobenzene	103	% 62-144	1		10/09/01 2:57	DL	855787
Surr: 4-Bromofluorobenzene	96.7	% 44-153	1		10/09/01 2:57	DL	855787
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	2.1	0.5	1		10/09/01 2:57	DL	855597
Ethylbenzene	6.5	0.5	1		10/09/01 2:57	DL	855597
Methyl tert-butyl ether	10	2	1		10/09/01 2:57	DL	855597
Toluene	ND	0.5	1		10/09/01 2:57	DL	855597
m,p-Xylene	10	0.5	1		10/09/01 2:57	DL	855597
o-Xylene	1.6	0.5	1		10/09/01 2:57	DL	855597
Xylenes, Total	11.6	0.5	1		10/09/01 2:57	DL	855597
Surr: 1,4-Difluorobenzene	113	% 72-137	1		10/09/01 2:57	DL	855597
Surr: 4-Bromofluorobenzene	103	% 48-156	1		10/09/01 2:57	DL	855597

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 RW2 Collected: 10/3/01 4:48:00 SPL Sample ID: 01100208-10

Site: 7-0235

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	1900	50	1		10/09/01 3:22	DL	855788
Surr: 1,4-Difluorobenzene	134	% 62-144	1		10/09/01 3:22	DL	855788
Surr: 4-Bromofluorobenzene	115	% 44-153	1		10/09/01 3:22	DL	855788
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	35	0.5	1		10/09/01 3:22	DL	855598
Ethylbenzene	34	0.5	1		10/09/01 3:22	DL	855598
Methyl tert-butyl ether	240	2	1		10/09/01 3:22	DL	855598
Toluene	4.4	0.5	1		10/09/01 3:22	DL	855598
m,p-Xylene	85	0.5	1		10/09/01 3:22	DL	855598
o-Xylene	20	0.5	1		10/09/01 3:22	DL	855598
Xylenes, Total	105	0.5	1		10/09/01 3:22	DL	855598
Surr: 1,4-Difluorobenzene	127	% 72-137	1		10/09/01 3:22	DL	855598
Surr: 4-Bromofluorobenzene	106	% 48-156	1		10/09/01 3:22	DL	855598

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 RW1

Collected: 10/3/01 4:52:00

SPL Sample ID: 01100208-11

Site: 7-0235

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	11000	1200	25		10/09/01 3:46	DL	855790
Surr: 1,4-Difluorobenzene	105	% 62-144	25		10/09/01 3:46	DL	855790
Surr: 4-Bromofluorobenzene	101	% 44-153	25		10/09/01 3:46	DL	855790
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	1900	12	25		10/09/01 3:46	DL	855599
Ethylbenzene	150	12	25		10/09/01 3:46	DL	855599
Methyl tert-butyl ether	4100	50	25		10/09/01 3:46	DL	855599
Toluene	780	12	25		10/09/01 3:46	DL	855599
m,p-Xylene	490	12	25		10/09/01 3:46	DL	855599
o-Xylene	210	12	25		10/09/01 3:46	DL	855599
Xylenes, Total	700	12	25		10/09/01 3:46	DL	855599
Surr: 1,4-Difluorobenzene	117	% 72-137	25		10/09/01 3:46	DL	855599
Surr: 4-Bromofluorobenzene	104	% 48-156	25		10/09/01 3:46	DL	855599

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 MW6H

Collected: 10/3/01 4:58:00

SPL Sample ID: 01100208-12

Site: 7-0235

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA GRO	Units: ug/L		
Gasoline Range Organics	1400	50	1		10/09/01 4:11	DL	855792
Surr: 1,4-Difluorobenzene	116	% 62-144	1		10/09/01 4:11	DL	855792
Surr: 4-Bromofluorobenzene	101	% 44-153	1		10/09/01 4:11	DL	855792
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	270	0.5	1		10/09/01 4:11	DL	855600
Ethylbenzene	4.2	0.5	1		10/09/01 4:11	DL	855600
Methyl tert-butyl ether	550	10	5		10/09/01 9:26	DL	855606
Toluene	5.6	0.5	1		10/09/01 4:11	DL	855600
m,p-Xylene	9.8	0.5	1		10/09/01 4:11	DL	855600
o-Xylene	1.8	0.5	1		10/09/01 4:11	DL	855600
Xylenes, Total	11.6	0.5	1		10/09/01 4:11	DL	855600
Surr: 1,4-Difluorobenzene	117	% 72-137	5		10/09/01 9:26	DL	855606
Surr: 1,4-Difluorobenzene	115	% 72-137	1		10/09/01 4:11	DL	855600
Surr: 4-Bromofluorobenzene	105	% 48-156	1		10/09/01 4:11	DL	855600
Surr: 4-Bromofluorobenzene	104	% 48-156	5		10/09/01 9:26	DL	855606

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

Quality Control Documentation



Quality Control Report

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

EXXON Company U.S.A.

222913x

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01100208
Lab Batch ID: R44969

Method Blank

Samples in Analytical Batch:

RunID: VARE_011008A-855569 Units: ug/L
Analysis Date: 10/08/2001 15:57 Analyst: DL

Table with 2 columns: Lab Sample ID, Client Sample ID. Lists samples 01100208-01A through 01100208-12A with corresponding client IDs.

Table with 3 columns: Analyte, Result, Rep Limit. Lists analytes like Benzene, Ethylbenzene, etc. with results (ND) and limits (0.50).

Laboratory Control Sample (LCS)

RunID: VARE_011008A-855568 Units: ug/L
Analysis Date: 10/08/2001 14:34 Analyst: DL

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Shows recovery data for various analytes.

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

Sample Spiked: 01100205-01
RunID: VARE_011008A-855571 Units: ug/L
Analysis Date: 10/08/2001 16:21 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. Contains detailed recovery and RPD data.

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.

222913x

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01100208
Lab Batch ID: R44969

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

Sample Spiked: 01100205-01
RunID: VARE_011008A-855571 Units: ug/L
Analysis Date: 10/08/2001 16:21 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
Methyl tert-butyl ether	ND	20	18	90.6	20	18	89.5	1.21	20	39	150
Toluene	ND	20	19	94.3	20	20	98.0	3.82	20	38	159
m,p-Xylene	ND	40	41	102	40	41	102	0.368	17	53	144
o-Xylene	ND	20	20	99.7	20	20	100	0.762	18	53	143
Xylenes, Total	ND	60	61	102	60	61	102	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.
222913x

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01100208
Lab Batch ID: R44973

Method Blank

Samples in Analytical Batch:

RunID: VARE_011008B-855724 Units: mg/L
Analysis Date: 10/08/2001 15:32 Analyst: DL

Table with 2 columns: Lab Sample ID, Client Sample ID. Lists samples 01100208-01A through 01100208-12A with corresponding client IDs like TB 9/28/01, BB, MW6J, etc.

Table with 3 columns: Analyte, Result, Rep Limit. Rows include Gasoline Range Organics (ND, 0.050), Surr: 1,4-Difluorobenzene (97.3, 62-144), Surr: 4-Bromofluorobenzene (96.3, 44-153).

Laboratory Control Sample (LCS)

RunID: VARE_011008B-855720 Units: mg/L
Analysis Date: 10/08/2001 14:58 Analyst: DL

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row for Gasoline Range Organics shows 1 spike added, result 0.97, 97% recovery, limits 70-130.

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

Sample Spiked: 01100205-02
RunID: VARE_011008B-855728 Units: mg/L
Analysis Date: 10/08/2001 17:10 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 shows ND sample result, 0.9 MS spike, 0.91 MS result, 101% MS recovery, 0.9 MSD spike, 0.88 MSD result, 97.6% MSD recovery, RPD 3.70, RPD limit 36, low limit 36, high limit 160.

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:	01100208	Received By:	DS
Date and Time Received:	10/5/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	2	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:

