ExxonMobil
Refining and Supply Company
Downstream - Safety, Health & Environment
Environmental Remediation

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Darin L. Rouse
Senior Engineer
Environmental Remediation

ExxonMobil
Refining & Supply

00 JAN -8 PM 4:24

December 22, 2000

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

245

RE: Former Exxon RAS #7-0238/2200 East 12th Street, Oakland, California. 01

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled ***Quarterly Groundwater Monitoring Report, Fourth Quarter 2000,*** dated December 8, 2000, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and presents the results of quarterly 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
Senior Engineer

Attachment: ERI's Quarterly Groundwater Monitoring Report, Fourth Quarter 2000, dated December 8, 2000.

cc: w/attachment
Mr. Stephen Hill, California Regional Water Quality Control Board-San Francisco Bay Region
Mr. Winson B. Low, Environmental and Safety Affairs Department

w/o attachment
Mr. James F. Chappell, Environmental Resolutions, Inc.

ENVIRONMENTAL RESOLUTIONS, INC.

December 8, 2000
ERI 229313.R11

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

Subject: Quarterly Groundwater Monitoring Report, Fourth Quarter 2000, Former Exxon Service Station 7-0238, 2200 East 12th Street, Oakland, California.

Mr. Rouse:

At the request of ExxonMobil Refining and Supply (formerly known as Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) performed the fourth quarter 2000 groundwater monitoring and sampling event. The location of the site is shown on the Site Vicinity Map (Plate 1). The purpose of quarterly monitoring and sampling is to evaluate concentrations of dissolved hydrocarbons in groundwater and groundwater flow direction and gradient.

GROUNDWATER MONITORING AND SAMPLING

On October 9, 2000, ERI measured depth to water (DTW) and collected groundwater samples from select monitoring wells for laboratory analysis. Groundwater monitoring and sampling were performed in accordance with ERI's groundwater sampling protocol (Attachment A).

Calculated groundwater gradient and flow direction are presented on Plate 2. Historical and recent monitoring data are summarized in Table 1.

LABORATORY ANALYSES AND RESULTS

Groundwater samples were submitted to Southern Petroleum Laboratories, Inc. (SPL), a 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 purgeable petroleum hydrocarbons as gasoline (TPPHg), 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. The results of analyses of groundwater samples collected during the recent sampling event are shown on Plate 2.

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.

ERI recommends forwarding copies of this report to:

Mr. Barney Chan
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 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
Environmental and Safety Affairs Department
One Valero Place, MS-06E
San Antonio, Texas 78212

Please call Mr. James F. Chappell, ERI's project manager for this site, at (415) 382-4323, with any questions regarding this project.

Sincerely,
Environmental Resolutions, Inc.

James F. Chappell
Assistant Project Manager

REGISTERED GEOLOGIST
JOHN BAILEY BOBBITT
No. 4313
STATE OF CALIFORNIA

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 7-0238
2200 East 12th Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPPHg	MTBE	B	T	E	X
		<	feet	>	<		ug/L			>
MW9A	11/02/95	NLPH	7.16	4.30	<50	<10	<0.5	<0.5	<0.5	<0.5
(11.46)	04/26/96	NLPH	6.33	5.13	---	---	---	---	---	---
	08/22/96	NLPH	7.02	4.44	---	---	---	---	---	---
	02/24/97	---	---	---	---	---	---	---	---	---
	03/16/98	NLPH	6.14	5.32	<200	40,000	7.9	<2.0	<2.0	<2.0
	04/21/98	NLPH	6.29	5.17	<50	53,000	3.8	<0.5	<0.5	<0.5
(14.53)	07/22/98	NLPH	6.58	7.95	<250	18,000	<2.5	<2.5	<2.5	<2.5
	12/22/98	NLPH	6.47	8.06	<50	5,200	<0.5	<0.5	<0.5	<0.5
	02/26/99	NLPH	6.38	8.15	<100	10,000	<1.0	<1.0	<1.0	<1.0
	5/27/99**	NLPH	6.56	7.97	<5,000	15,300	<50	<50	<50	<50
	08/03/99	NLPH	9.39	5.14	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	12/03/99	NLPH	6.52	8.01	<50	1,400	<0.5	<0.5	<0.5	0.67[A]
	02/29/00	NLPH	5.31	9.22	<50	20,000	1.2	<0.5	<0.5	<0.5
	05/18/00	NLPH	6.31	8.22	<50	14,000/11,000*	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	6.54	7.99	<50	7,400	<0.5	<0.5	<0.5	<0.5
	10/09/00	**NLPH**	**6.00**	**8.53**	**<50**	**2,300**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW9B	11/02/95	NLPH	6.14	3.66	130	<10	3.3	<0.5	<0.5	<0.5
(9.80)	04/26/96	NLPH	5.66	4.14	270	70	130	2.8	6.7	<3
	08/22/96	NLPH	6.16	3.64	210	31	5.7	6.8	1.1	9.2
	02/24/97	NLPH	5.58	4.22	1,400	1,300	76	1.4	4.1	1.2
	03/16/98	NLPH	5.32	4.48	860	1,500	140	2.0	11	<2.0
	04/21/98	NLPH	5.49	4.31	1,800	18,000	300	<5.0	7.9	<5.0
(12.83)	07/22/98	NLPH	5.79	7.04	<500	26,000	13	<5.0	<5.0	<5.0
	12/22/98	NLPH	5.69	7.14	700	21,000	110	3.1	9.1	14
	02/26/99	NLPH	5.10	7.73	8,800	8,000	2,000	<25	52	38
	05/18/99	NLPH	5.65	7.18	<10,000	42,100	158	<100	<100	<100
	08/03/99	NLPH	6.24	6.59	960	24,900	<5.0	<5.0	<5.0	<5.0
	12/03/99	NLPH	5.66	7.17	<50	1,000	<0.5	<0.5	<0.5	<0.5
	02/29/00	NLPH	4.61	8.22	3,100	25,000	900	7	23	7.1
	05/18/00	NLPH	5.54	7.29	780	34,000/26,000*	150	<2.5	4.5	<2.5
	07/24/00	NLPH	8.75	4.08	<250	39,000	8	<2.5	<2.5	<2.5
	10/09/00	**NLPH**	**4.84**	**7.99**	**<1,200**	**30,000**	**1.7**	**<0.5**	**<0.5**	**<0.5**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPPHg	MTBE	B	T	E	X
		<	feet	>	<	ug/L				>
MW9C	11/02/95	---	---	---	---	---	---	---	---	---
(11.14)	04/26/96	---	---	---	---	---	---	---	---	---
	08/22/96	---	---	---	---	---	---	---	---	---
	02/24/97	---	---	---	---	---	---	---	---	---
	03/16/98	NLPH	5.51	5.63	<500	150,000	24	<5.0	<5.0	<5.0
	04/21/98	NLPH	5.83	5.31	150	130,000/150,000*	<0.5	<0.5	<0.5	<0.5
(14.19)	07/22/98	NLPH	6.43	7.76	<500	95,000	<5.0	<5.0	<5.0	<5.0
	12/22/98	NLPH	6.16	8.03	<500	84,000	<5.0	<5.0	<5.0	<5.0
	02/26/99	NLPH	5.46	8.73	<250	55,000	<2.5	<2.5	<2.5	<2.5
	05/18/99	NLPH	6.27	7.92	<25,000	68,900	<250	<250	<250	<250
	08/03/99	NLPH	7.13	7.06	210	69,200	<1.0	1.3	<1.0	<1.0
	12/03/99	NLPH	6.17	8.02	290	50,000	<2.5	<2.5	<2.5	<2.5
	02/29/00	NLPH	4.49	9.70	<250	40,000	<2.5	<2.5	<2.5	<2.5
	05/18/00	NLPH	5.96	8.23	<250	46,000/33,000	<2.5	<2.5	<2.5	<2.5
	07/24/00	NLPH	6.47	7.72	<250	44,000	<2.5	<2.5	<2.5	<2.5
	10/09/00	**NLPH**	**6.57**	**7.62**	**<250**	**39,000**	**<2.5**	**<2.5**	**<2.5**	**<2.5**
MW9D	11/02/95	---	---	---	---	---	---	---	---	---
(12.90)	04/26/96	---	--	--	---	---	---	---	---	---
	08/22/96	---	---	---	---	---	---	---	---	---
	02/24/97	---	---	---	---	---	---	---	---	---
	03/16/98	NLPH	6.94	5.96	<50	10	<0.5	<0.5	<0.5	<0.5
	04/21/98	NLPH	7.22	5.68	<50	12	<0.5	<0.5	<0.5	<0.5
(15.98)	07/22/98	NLPH	7.85	8.13	<50	13	<0.5	<0.5	<0.5	<0.5
	12/22/98	NLPH	7.58	8.40	<50	12	<0.5	<0.5	<0.5	<0.5
	02/26/99	NLPH	6.42	9.56	<50	310	<0.5	<0.5	<0.5	<0.5
	05/18/99	NLPH	6.55	9.43	<2,500	13,500	<25	<25	<25	<25
	08/03/99	NLPH	8.34	7.64	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	12/03/99	NLPH	7.56	8.42	<50	<2	<0.5	<0.5	<0.5	<0.5
	02/29/00	NLPH	4.82	11.16	<50	2.5	<0.5	<0.5	<0.5	<0.5
	05/18/00	NLPH	7.40	8.58	<50	6.2	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	7.91	8.07	<50	14	<0.5	<0.5	0.85	0.74
	10/09/00	**NLPH**	**8.02**	**7.96**	**<50**	**14**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

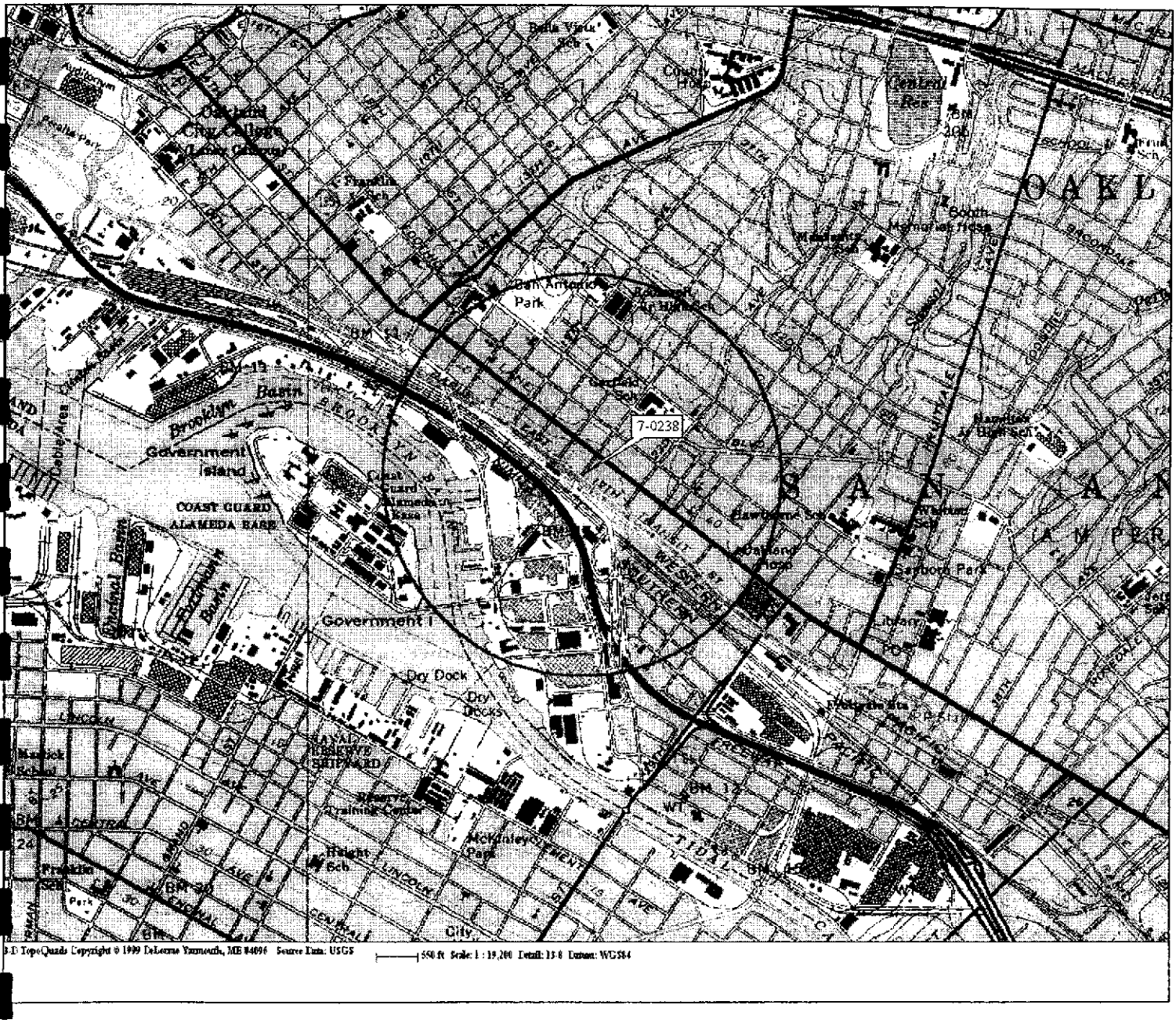
Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPPHg	MTBE	B	T	E	X
		<	feet	>	<		ug/L			>
MW9F	11/02/95	---	---	---	---	---	---	---	---	---
(8.37)	04/26/96	NLPH	---	---	<50	57	<0.5	<0.5	<0.5	<0.5
	08/22/96	NLPH	---	---	<50	5.8	<0.5	<0.5	<0.5	<0.5
	02/24/97	NLPH	---	---	<50	<30	<0.5	<0.5	<0.5	<0.5
	03/16/98	NLPH	---	---	---	---	---	---	---	---
	04/21/98	---	---	---	---	---	---	---	---	---
(11.38)	07/22/98	---	---	---	---	---	---	---	---	---
	12/22/98	NLPH	5.47	5.91	<50	81	<0.5	<0.5	<0.5	<0.5
	02/26/99	NLPH	5.35	6.03	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	05/18/99	NLPH	5.62	5.76	<50	61.6	<0.5	<0.5	<0.5	<0.5
	08/03/99	NLPH	6.32	5.06	<50	3.10	<0.5	<0.5	<0.5	<0.5
	12/03/99	NLPH	5.59	5.79	<50	<2	<0.5	<0.5	0.71	<0.5
	02/29/00	NLPH	4.70	6.68	<50	52	<0.5	<0.5	<0.5	<0.5
	05/18/00	NLPH	5.37	6.01	<50	65	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	5.65	5.73	<50	170	<0.5	<0.5	<0.5	<0.5
	10/09/00	**NLPH**	**5.71**	**5.67**	**<50**	**170**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW9G	11/02/95	NLPH	5.92	4.03	<50	<10	<0.5	<0.5	<0.5	<0.5
(9.95)	04/26/96	NLPH	5.28	4.67	<50	18	<0.5	<0.5	<0.5	<0.5
	08/22/96	NLPH	5.57	4.38	<50	18	<0.5	<0.5	<0.5	<0.5
	02/24/97	NLPH	5.30	4.65	<50	240	<0.5	0.57	<0.5	0.62
	03/16/98	---	---	---	---	---	---	---	---	---
	04/21/98	---	---	---	---	---	---	---	---	---
(12.99)	07/22/98	---	---	---	---	---	---	---	---	---
	12/22/98	NLPH	5.28	7.71	<50	1,100	<0.5	<0.5	<0.5	<0.5
	02/26/99	NLPH	5.31	7.68	<50	50	<0.5	<0.5	<0.5	<0.5
	05/18/99	NLPH	5.18	7.81	<1,000	3,990	<10	<10	<10	<10
	08/03/99	NLPH	6.00	6.99	<50	1,340	<0.5	<0.5	<0.5	<0.5
	12/03/99	NLPH	5.27	7.72	<50	<2	<0.5	<0.5	<0.5	0.55[A]
	02/29/00	NLPH	4.60	8.39	<50	7,900	<0.5	<0.5	<0.5	<0.5
	05/18/00	NLPH	5.16	7.83	<50	2,400	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	5.20	7.79	<50	1,000	<0.5	<0.5	<0.5	<0.5
	10/09/00	**NLPH**	**5.26**	**7.73**	**<50**	**180**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPPHg	MTBE	B	T	E	X
		<	feet	>	<		ug/L			>
MW9H	11/02/95	NLPH	8.40	0.18	<50	<10	<0.5	<0.5	<0.5	<0.5
(8.58)	04/26/96	NLPH	8.05	0.53	---	---	---	---	---	---
	08/22/96	NLPH	8.17	0.41	---	---	---	---	---	---
	02/24/97	---	---	---	---	---	---	---	---	---
	03/16/98	---	---	---	---	---	---	--	---	---
	04/21/98	---	---	---	---	---	---	---	---	---
(11.61)	07/22/98	---	---	---	---	---	---	---	---	---
	12/22/98	NLPH	7.81	3.80	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	02/26/99	NLPH	7.61	4.00	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	05/18/99	NLPH	8.00	3.61	<50	3.98	<0.5	<0.5	<0.5	<0.5
	08/03/99	NLPH	6.05	5.56	<50	<2.5	<0.5	<0.5	<0.5	<0.5
	12/03/99	NLPH	5.32	6.29	<50	<2	<0.5	<0.5	<0.5	0.57[A]
	02/29/00	NLPH	7.10	4.51	<50	<2	<0.5	<0.5	<0.5	<0.5
	05/18/00	NLPH	7.84	3.77	<50	9.7	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	7.94	3.67	<50	17	<0.5	<0.5	<0.5	<0.5
	10/09/00	**NLPH**	**8.09**	**3.52**	**<50**	**13**	**<0.5**	**<0.5**	**<0.5**	**1.1**
MW9I	11/02/95	NLPH	6.04	4.07	<50	<10	<0.5	<0.5	<0.5	<0.5
(10.11)	04/26/96	NLPH	5.27	4.84	<50	99	<0.5	<0.5	<0.5	<0.5
	08/22/96	NLPH	5.66	4.45	<50	170	<0.5	<0.5	<0.5	<0.5
	02/24/97	NLPH	5.24	4.87	120	9,100	<0.5	<0.5	<0.5	<0.5
	03/16/98	NLPH	4.91	5.20	<200	59,000	13	<2.0	<2.0	<2.0
	04/21/98	NLPH	5.08	5.03	<500	59,000	<5.0	<5.0	<5.0	<5.0
(13.14)	07/22/98	NLPH	5.44	7.70	<500	62,000	<5.0	<5.0	<5.0	<5.0
	12/22/98	NLPH	5.32	7.82	200	51,000	1.7	<0.5	<0.5	<0.5
	02/26/99	NLPH	4.71	8.43	<500	9,700	<5.0	<5.0	<5.0	<5.0
	05/18/99	NLPH	5.30	7.84	<1,000	3,730	<10	<10	<10	<10
	08/03/99	NLPH	5.98	7.16	<50	21,900	<0.5	0.650	<0.5	<0.5
	12/03/99	NLPH	5.31	7.83	<250	2,000	3.9	2.9	<2.5	14
	02/29/00	NLPH	4.20	8.94	50	16,000	0.74	<0.5	<0.5	<0.5
	05/18/00	NLPH	5.12	8.02	<50	2,900	<0.5	<0.5	<0.5	<0.5
	07/24/00	NLPH	5.41	7.73	<250	43,000	<2.5	<2.5	<2.5	<2.5
	10/09/00	**NLPH**	**5.41**	**7.73**	**<2,500**	**54,000**	**1.6**	**<0.5**	**<0.5**	**<0.5**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California

Notes:		
SUBJ	=	Results of subjective evaluation.
NLPH	=	No liquid-phase hydrocarbons present in well.
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.
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using EPA Method 5030/8015 (modified).
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.
*	=	MTBE confirmed using EPA Method 8260.
ug/L	=	Micrograms per Liter.
**	=	Miscalculation in field. Field technician may have inadvertently monitored and sampled the wrong well. Resampled 5/27/99.
A	=	Analyte detected in the associated Trip Blank at 0.52 ug/L.



FN 2293TOPO

EXPLANATION

1/2-mile radius circle

N

APPROXIMATE SCALE

0 .5 1 mile

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

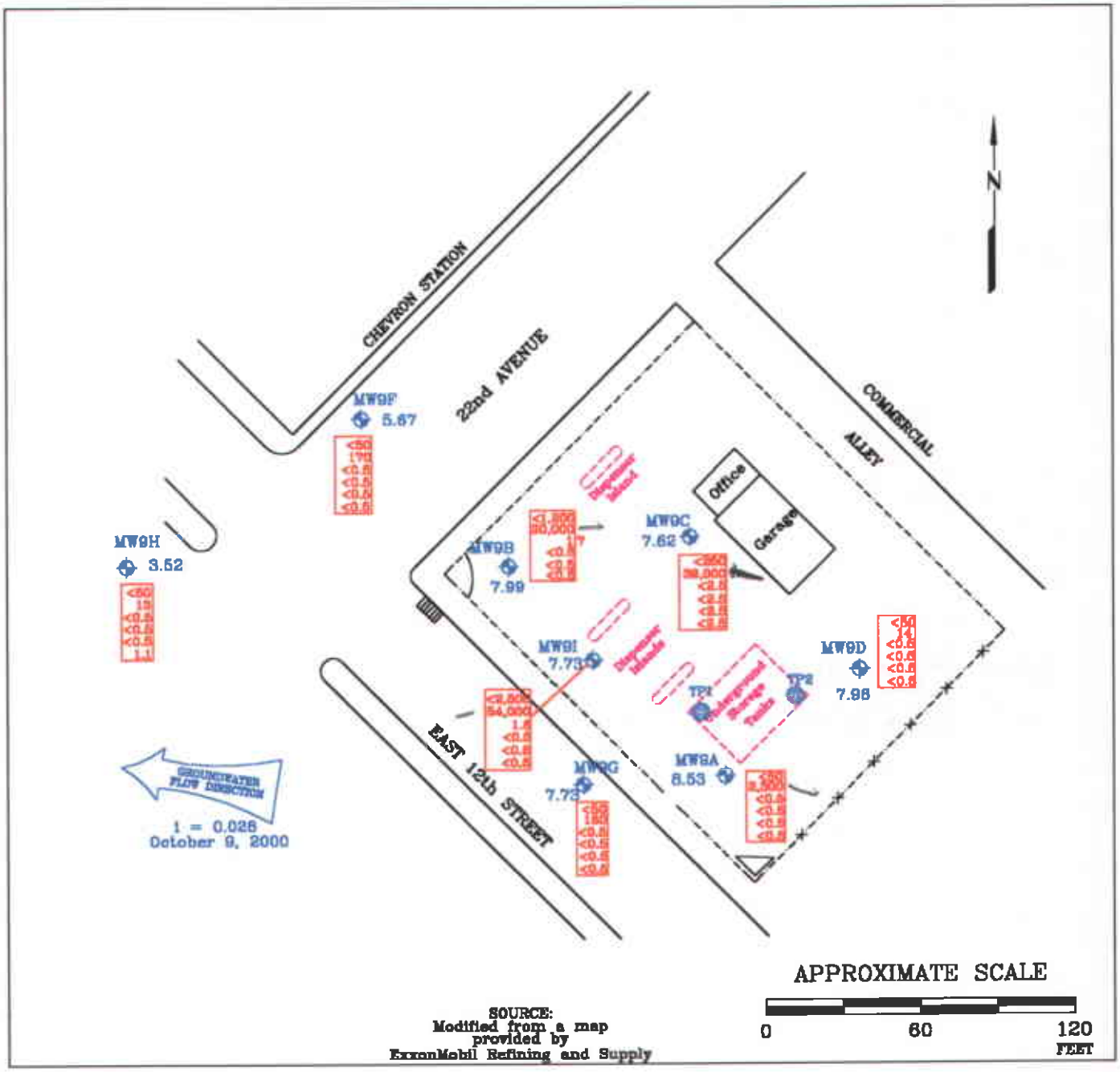
ERI ENVIRONMENTAL RESOLUTIONS, INC.

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

PROJECT NO. 2293

PLATE 1



SOURCE:
Modified from a map provided by
ExxonMobil Refining and Supply

FN 22930002

EXPLANATION

MW9I — Groundwater Monitoring Well

7.73 — Groundwater elevation in feet above mean sea level

i = — Interpreted Groundwater Gradient

TP2 — UST Observation Well

Proposed Vapor Points

Groundwater Concentrations in ug/L
Sampled October 9, 2000

<2,500	Total Purgeable Petroleum Hydrocarbons as gasoline
54,000	Methyl Tertiary Butyl Ether
1.6	Benzene
<0.5	Toluene
<0.5	Ethylbenzene
<0.5	Total Xylenes

ug/L — Micrograms per Liter (ug/L)

< — Less Than the Stated Laboratory Detection Level

ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-0238
2200 East 12th Street
Oakland, California

PROJECT NO. 2293

PLATE 2

October 26, 2000

ATTACHMENT A

GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate phase product level, if present, in each well that contained water and/or separate phase product are measured with a MMC 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 wellhead elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® 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 liquid-phase hydrocarbons or sheen. Any liquid-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until stabilization of the temperature, pH, and conductivity is obtained, or until a minimum of three well casing volumes are purged. 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 one 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® bailer. The groundwater is carefully poured into 40-milliliter (ml) glass vials, which are filled so as to produce a positive meniscus. Each vial is preserved with hydrochloric acid, 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

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

Certificate of Analysis Number:
00100261

Report To:		Project Name:	229313X
Environmental Resolution, Inc.		Site:	7-0238,19802889
Jim Chappell		Site Address:	
73 Digital Drive Suite 100			
Novato		PO Number:	LWR#20008024
California		State:	California
94949-		State Cert. No.:	
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	10/20/00

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

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

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

West, Sonia
Senior Project Manager

10/20/00
Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

00100261

Report To:	Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856	Project Name:	229313X
		Site:	7-0238,19802889
		Site Address:	
		PO Number:	LWR#20008024
		State:	California
		State Cert. No.:	
Fax To:	*Environmental Resolution, Inc.* *Jim Chappell* *fax: (415) 382-1856*	Date Reported:	10/20/00

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
W-3BB-MW9D	00100261-01	Water	10/9/00 4:20:00 PM	10/11/00 10:00:00 AM		☐
W-3-MW9D	00100261-02	Water	10/9/00 3:20:00 PM	10/11/00 10:00:00 AM		☐
W-3-MW9H	00100261-03	Water	10/9/00 4:30:00 PM	10/11/00 10:00:00 AM		☐
W-5-MW9F	00100261-04	Water	10/9/00 4:40:00 PM	10/11/00 10:00:00 AM		☐
W-6-MW9G	00100261-05	Water	10/9/00 5:00:00 PM	10/11/00 10:00:00 AM		☐
W-6-MW9A	00100261-06	Water	10/9/00 5:20:00 PM	10/11/00 10:00:00 AM		☐
W-5-MW9B	00100261-07	Water	10/9/00 5:15:00 PM	10/11/00 10:00:00 AM		☐
W-5-MW9I	00100261-08	Water	10/9/00 4:30:00 PM	10/11/00 10:00:00 AM		☐
W-6-MW9C	00100261-09	Water	10/9/00 5:00:00 PM	10/11/00 10:00:00 AM		☐

Sonia West

10/20/00

Date

West, Sonia
Senior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

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

Client Sample ID: W-BB-MW9D **Collected:** 10/9/00 4:20:00 **SPL Sample ID:** 00100261-01

Site: 7-0238,19802889

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		10/16/00 15:44	DL	436846
Surr: 1,4-Difluorobenzene	96.7	%	62-144	1		10/16/00 15:44	DL	436846
Surr: 4-Bromofluorobenzene	92.7	%	44-153	1		10/16/00 15:44	DL	436846
PURGEABLE AROMATICS				**MCL**	**SW8021B**	**Units: ug/L**		
Benzene	ND		0.5	1		10/16/00 15:44	DL	436037
Ethylbenzene	ND		0.5	1		10/16/00 15:44	DL	436037
Methyl tert-butyl ether	ND		2	1		10/16/00 15:44	DL	436037
Toluene	ND		0.5	1		10/16/00 15:44	DL	436037
m,p-Xylene	ND		0.5	1		10/16/00 15:44	DL	436037
o-Xylene	ND		0.5	1		10/16/00 15:44	DL	436037
Xylenes,Total	ND		0.5	1		10/16/00 15:44	DL	436037
Surr: 1,4-Difluorobenzene	97.5	%	72-137	1		10/16/00 15:44	DL	436037
Surr: 4-Bromofluorobenzene	103	%	48-156	1		10/16/00 15:44	DL	436037

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

Client Sample ID: W-8-MW9D **Collected:** 10/9/00 3:20:00 **SPL Sample ID:** 00100261-02

Site: 7-0238,19802889

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		10/16/00 16:09	DL	436849
Surr: 1,4-Difluorobenzene	97.3	%	62-144	1		10/16/00 16:09	DL	436849
Surr: 4-Bromofluorobenzene	92.3	%	44-153	1		10/16/00 16:09	DL	436849
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5	1		10/16/00 16:09	DL	436039
Ethylbenzene	ND		0.5	1		10/16/00 16:09	DL	436039
Methyl tert-butyl ether	14		2	1		10/16/00 16:09	DL	436039
Toluene	ND		0.5	1		10/16/00 16:09	DL	436039
m,p-Xylene	ND		0.5	1		10/16/00 16:09	DL	436039
o-Xylene	ND		0.5	1		10/16/00 16:09	DL	436039
Xylenes,Total	ND		0.5	1		10/16/00 16:09	DL	436039
Surr: 1,4-Difluorobenzene	98.5	%	72-137	1		10/16/00 16:09	DL	436039
Surr: 4-Bromofluorobenzene	103	%	48-156	1		10/16/00 16:09	DL	436039

Sonia West

West, Sonia
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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J - Estimated Value between MDL and PQL
>MCL - Result Over Maximum Contamination Limit(MCL)
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MI - Matrix Interference

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

Client Sample ID: W-3-MW9H **Collected:** 10/9/00 4:30:00 **SPL Sample ID:** 00100261-03

Site: 7-0238,19802889

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		10/16/00 16:35	DL	436852
Surr: 1,4-Difluorobenzene	96.7	%	62-144	1		10/16/00 16:35	DL	436852
Surr: 4-Bromofluorobenzene	92.7	%	44-153	1		10/16/00 16:35	DL	436852
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5	1		10/16/00 16:35	DL	436041
Ethylbenzene	ND		0.5	1		10/16/00 16:35	DL	436041
Methyl tert-butyl ether	13		2	1		10/16/00 16:35	DL	436041
Toluene	ND		0.5	1		10/16/00 16:35	DL	436041
m,p-Xylene	1.1		0.5	1		10/16/00 16:35	DL	436041
o-Xylene	ND		0.5	1		10/16/00 16:35	DL	436041
Xylenes,Total	1.1		0.5	1		10/16/00 16:35	DL	436041
Surr: 1,4-Difluorobenzene	97.2	%	72-137	1		10/16/00 16:35	DL	436041
Surr: 4-Bromofluorobenzene	103	%	48-156	1		10/16/00 16:35	DL	436041

Sonia West

West, Sonia
Project Manager

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>MCL - Result Over Maximum Contamination Limit(MCL)
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8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: W-5-MW9F **Collected:** 10/9/00 4:40:00 **SPL Sample ID:** 00100261-04

Site: 7-0238,19802889

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		10/16/00 17:00	DL	436855
Surr: 1,4-Difluorobenzene	96.7	%	62-144	1		10/16/00 17:00	DL	436855
Surr: 4-Bromofluorobenzene	92.3	%	44-153	1		10/16/00 17:00	DL	436855
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5	1		10/16/00 17:00	DL	436042
Ethylbenzene	ND		0.5	1		10/16/00 17:00	DL	436042
Methyl tert-butyl ether	170		2	1		10/16/00 17:00	DL	436042
Toluene	ND		0.5	1		10/16/00 17:00	DL	436042
m,p-Xylene	ND		0.5	1		10/16/00 17:00	DL	436042
o-Xylene	ND		0.5	1		10/16/00 17:00	DL	436042
Xylenes,Total	ND		0.5	1		10/16/00 17:00	DL	436042
Surr: 1,4-Difluorobenzene	100	%	72-137	1		10/16/00 17:00	DL	436042
Surr: 4-Bromofluorobenzene	102	%	48-156	1		10/16/00 17:00	DL	436042

Sonia West

West, Sonia
Project Manager

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

Client Sample ID: W-6-MW9G **Collected:** 10/9/00 5:00:00 **SPL Sample ID:** 00100261-05

Site: 7-0238,19802889

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		10/16/00 17:26	DL	436859
Surr: 1,4-Difluorobenzene	97.3	%	62-144	1		10/16/00 17:26	DL	436859
Surr: 4-Bromofluorobenzene	92.3	%	44-153	1		10/16/00 17:26	DL	436859
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5	1		10/16/00 17:26	DL	436044
Ethylbenzene	ND		0.5	1		10/16/00 17:26	DL	436044
Methyl tert-butyl ether	180		2	1		10/16/00 17:26	DL	436044
Toluene	ND		0.5	1		10/16/00 17:26	DL	436044
m,p-Xylene	ND		0.5	1		10/16/00 17:26	DL	436044
o-Xylene	ND		0.5	1		10/16/00 17:26	DL	436044
Xylenes,Total	ND		0.5	1		10/16/00 17:26	DL	436044
Surr: 1,4-Difluorobenzene	97.8	%	72-137	1		10/16/00 17:26	DL	436044
Surr: 4-Bromofluorobenzene	102	%	48-156	1		10/16/00 17:26	DL	436044

Sonia West

West, Sonia
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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* - 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, TEXAS 77054
(713) 660-0901

Client Sample ID: W-6-MW9A **Collected:** 10/9/00 5:20:00 **SPL Sample ID:** 00100261-06

Site: 7-0238,19802889

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		10/16/00 17:51	DL	436865
Surr: 1,4-Difluorobenzene	100	%	62-144	1		10/16/00 17:51	DL	436865
Surr: 4-Bromofluorobenzene	91.0	%	44-153	1		10/16/00 17:51	DL	436865
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5	1		10/16/00 17:51	DL	436046
Ethylbenzene	ND		0.5	1		10/16/00 17:51	DL	436046
Methyl tert-butyl ether	2300		50	25		10/17/00 9:12	DL	436073
Toluene	ND		0.5	1		10/16/00 17:51	DL	436046
m,p-Xylene	ND		0.5	1		10/16/00 17:51	DL	436046
o-Xylene	ND		0.5	1		10/16/00 17:51	DL	436046
Xylenes,Total	ND		0.5	1		10/16/00 17:51	DL	436046
Surr: 1,4-Difluorobenzene	99.7	%	72-137	25		10/17/00 9:12	DL	436073
Surr: 1,4-Difluorobenzene	102	%	72-137	1		10/16/00 17:51	DL	436046
Surr: 4-Bromofluorobenzene	108	%	48-156	25		10/17/00 9:12	DL	436073
Surr: 4-Bromofluorobenzene	99.5	%	48-156	1		10/16/00 17:51	DL	436046

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

Client Sample ID: W-5-MW9B **Collected:** 10/9/00 5:15:00 **SPL Sample ID:** 00100261-07

Site: 7-0238,19802889

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		1200		25		10/19/00 1:37	DL	439486
Surr: 1,4-Difluorobenzene	97.4	%	62-144		25		10/19/00 1:37	DL	439486
Surr: 4-Bromofluorobenzene	93.0	%	44-153		25		10/19/00 1:37	DL	439486
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	1.7		0.5		1		10/16/00 18:16	DL	436048
Ethylbenzene	ND		0.5		1		10/16/00 18:16	DL	436048
Methyl tert-butyl ether	30000		200		100		10/17/00 9:38	DL	436074
Toluene	ND		0.5		1		10/16/00 18:16	DL	436048
m,p-Xylene	ND		0.5		1		10/16/00 18:16	DL	436048
o-Xylene	ND		0.5		1		10/16/00 18:16	DL	436048
Xylenes,Total	ND		0.5		1		10/16/00 18:16	DL	436048
Surr: 1,4-Difluorobenzene	98.7	%	72-137		100		10/17/00 9:38	DL	436074
Surr: 1,4-Difluorobenzene	144	%	72-137		1	*	10/16/00 18:16	DL	436048
Surr: 4-Bromofluorobenzene	102	%	48-156		100		10/17/00 9:38	DL	436074
Surr: 4-Bromofluorobenzene	105	%	48-156		1		10/16/00 18:16	DL	436048

Sonia West

West, Sonia
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Client Sample ID: W-5-MW9I **Collected:** 10/9/00 4:30:00 **SPL Sample ID:** 00100261-08

Site: 7-0238,19802889

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		2500		50		10/16/00 22:30	DL	436872
Surr: 1,4-Difluorobenzene	97.9	%	62-144		50		10/16/00 22:30	DL	436872
Surr: 4-Bromofluorobenzene	91.7	%	44-153		50		10/16/00 22:30	DL	436872
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	1.6		0.5		1		10/14/00 1:01	DL	434202
Ethylbenzene	ND		0.5		1		10/14/00 1:01	DL	434202
Methyl tert-butyl ether	54000		400		200		10/17/00 10:03	DL	436076
Toluene	ND		0.5		1		10/14/00 1:01	DL	434202
m,p-Xylene	ND		0.5		1		10/14/00 1:01	DL	434202
o-Xylene	ND		0.5		1		10/14/00 1:01	DL	434202
Xylenes,Total	ND		0.5		1		10/14/00 1:01	DL	434202
Surr: 1,4-Difluorobenzene	97.5	%	72-137		200		10/17/00 10:03	DL	436076
Surr: 1,4-Difluorobenzene	162	%	72-137		1	*	10/14/00 1:01	DL	434202
Surr: 4-Bromofluorobenzene	103	%	48-156		200		10/17/00 10:03	DL	436076
Surr: 4-Bromofluorobenzene	103	%	48-156		1		10/14/00 1:01	DL	434202

Sonia West

West, Sonia
Project Manager

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

Client Sample ID: W-6-MW9C **Collected:** 10/9/00 5:00:00 **SPL Sample ID:** 00100261-09

Site: 7-0238,19802889

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		250	5		10/14/00 1:27	DL	434289
Surr: 1,4-Difluorobenzene	103	%	62-144	5		10/14/00 1:27	DL	434289
Surr: 4-Bromofluorobenzene	93.9	%	44-153	5		10/14/00 1:27	DL	434289
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		2.5	5		10/14/00 1:27	DL	434204
Ethylbenzene	ND		2.5	5		10/14/00 1:27	DL	434204
Methyl tert-butyl ether	39000		500	250		10/16/00 22:05	DL	436055
Toluene	ND		2.5	5		10/14/00 1:27	DL	434204
m,p-Xylene	ND		2.5	5		10/14/00 1:27	DL	434204
o-Xylene	ND		2.5	5		10/14/00 1:27	DL	434204
Xylenes,Total	ND		2.5	5		10/14/00 1:27	DL	434204
Surr: 1,4-Difluorobenzene	99.4	%	72-137	250		10/16/00 22:05	DL	436055
Surr: 1,4-Difluorobenzene	106	%	72-137	5		10/14/00 1:27	DL	434204
Surr: 4-Bromofluorobenzene	103	%	48-156	250		10/16/00 22:05	DL	436055
Surr: 4-Bromofluorobenzene	103	%	48-156	5		10/14/00 1:27	DL	434204

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

Quality Control Documentation

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

Quality Control Report

EXXON Company U.S.A.

229313X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00100261
Lab Batch ID: R22443

Method Blank

RunID: HP_U_001013A-433323 Units: ug/L
Analysis Date: 10/13/2000 10:54 Analyst: DL

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00100261-08A	W-5-MW9I
00100261-09A	W-6-MW9C

Analyte	Result	Rep Limit
Benzene	ND	0.50
Ethylbenzene	ND	0.50
Toluene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50
Xylenes,Total	ND	0.50
Surr: 1,4-Difluorobenzene	97.0	72-137
Surr: 4-Bromofluorobenzene	104.3	48-156

Laboratory Control Sample (LCS)

RunID: HP_U_001013A-433322 Units: ug/L
Analysis Date: 10/13/2000 10:03 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	50	100	70	130
Ethylbenzene	50	52	104	70	130
Toluene	50	51	103	70	130
m,p-Xylene	100	100	105	70	130
o-Xylene	50	51	103	70	130
Xylenes,Total	150	151	101	70	130

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

Sample Spiked: 00100228-01
RunID: HP_U_001013A-434184 Units: ug/L
Analysis Date: 10/13/2000 13:47 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
Benzene	ND	20	19	92.9	20	19	97.1	4.42	21	32	164
Ethylbenzene	ND	20	19	93.4	20	20	98.2	4.98	19	52	142
Toluene	ND	20	18	92.2	20	19	97.1	5.16	20	38	159
m,p-Xylene	ND	40	37	93.1	40	39	98.0	5.12	17	53	144
o-Xylene	ND	20	19	93.6	20	20	98.0	4.59	18	53	143

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

HOUSTON LABORATORY
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HOUSTON, TEXAS 77054
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Quality Control Report

EXXON Company U.S.A.

229313X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00100261
Lab Batch ID: R22443

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

Sample Spiked: 00100228-01
RunID: HP_U_001013A-434184 Units: ug/L
Analysis Date: 10/13/2000 13:47 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
Xylenes,Total	ND	60	56	93.3	60	59	98.3	5.22	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
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
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HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

229313X

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 00100261
Lab Batch ID: R22444

Method Blank

RunID: HP_U_001013B-433329 Units: mg/L
Analysis Date: 10/13/2000 10:29 Analyst: DL

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00100261-09A	W-6-MW9C

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	96.3	62-144
Surr: 4-Bromofluorobenzene	92.7	44-153

Laboratory Control Sample (LCS)

RunID: HP_U_001013B-433328 Units: mg/L
Analysis Date: 10/13/2000 9:38 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.92	92	70	130

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

Sample Spiked: 00100228-02
RunID: HP_U_001013B-434265 Units: mg/L
Analysis Date: 10/13/2000 14:38 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	0.92	97.6	0.9	0.92	97.5	0.125	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
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

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Quality Control Report

EXXON Company U.S.A.

229313X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00100261
Lab Batch ID: R22594

Method Blank

RunID: HP_U_001016A-436033 Units: ug/L
Analysis Date: 10/16/2000 13:12 Analyst: DL

Analyte	Result	Rep Limit
Benzene	ND	0.50
Ethylbenzene	ND	0.50
Methyl tert-butyl ether	ND	2.0
Toluene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50
Xylenes,Total	ND	0.50
Surr: 1,4-Difluorobenzene	98.8	72-137
Surr: 4-Bromofluorobenzene	100.6	48-156

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00100261-01A	W-BB-MW9D
00100261-02A	W-8-MW9D
00100261-03A	W-3-MW9H
00100261-04A	W-5-MW9F
00100261-05A	W-6-MW9G
00100261-06A	W-6-MW9A
00100261-07A	W-5-MW9B
00100261-08A	W-5-MW9I
00100261-09A	W-6-MW9C

Laboratory Control Sample (LCS)

RunID: HP_U_001016A-436032 Units: ug/L
Analysis Date: 10/16/2000 12:21 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	47	94	70	130
Ethylbenzene	50	50	99	70	130
Methyl tert-butyl ether	50	42	84	70	130
Toluene	50	48	97	70	130
m,p-Xylene	100	99	99	70	130
o-Xylene	50	49	97	70	130
Xylenes,Total	150	148	99	70	130

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

Sample Spiked: 00100261-02
RunID: HP_U_001016A-436034 Units: ug/L
Analysis Date: 10/16/2000 13:35 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
Benzene	ND	20	20	99.5	20	20	102	2.63	21	32	164
Ethylbenzene	ND	20	21	102	20	21	106	3.37	19	52	142
Methyl tert-butyl ether	14	20	31	85.0	20	33	93.8	9.83	20	39	150

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

HOUSTON LABORATORY
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HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

229313X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 00100261
Lab Batch ID: R22594

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

Sample Spiked: 00100261-02
RunID: HP_U_001016A-436034 Units: ug/L
Analysis Date: 10/16/2000 13:35 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	20	100	20	21	104	4.13	20	38	159
m,p-Xylene	ND	40	41	102	40	43	106	3.26	17	53	144
o-Xylene	ND	20	20	99.7	20	21	104	3.76	18	53	143
Xylenes,Total	ND	60	61	102	60	64	107	4.80	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
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
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HOUSTON, TEXAS 77054
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Quality Control Report

EXXON Company U.S.A.

229313X

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 00100261
Lab Batch ID: R22650

Method Blank

RunID: HP_U_001016B-436844 Units: mg/L
Analysis Date: 10/16/2000 15:19 Analyst: DL

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	97.7	62-144
Surr: 4-Bromofluorobenzene	93.7	44-153

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00100261-01A	W-BB-MW9D
00100261-02A	W-8-MW9D
00100261-03A	W-3-MW9H
00100261-04A	W-5-MW9F
00100261-05A	W-6-MW9G
00100261-06A	W-6-MW9A
00100261-08A	W-5-MW9I

Laboratory Control Sample (LCS)

RunID: HP_U_001016B-437425 Units: mg/L
Analysis Date: 10/16/2000 11:56 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.82	82	70	130

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

Sample Spiked: 00100261-03
RunID: HP_U_001016B-436839 Units: mg/L
Analysis Date: 10/16/2000 14:26 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	0.88	97.4	0.9	0.88	97.4	0.0685	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
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

HOUSTON LABORATORY
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Quality Control Report

EXXON Company U.S.A.

229313X

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 00100261
Lab Batch ID: R22790

Method Blank

RunID: HP_U_001018B-439470 Units: mg/L
Analysis Date: 10/18/2000 10:35 Analyst: DL

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
00100261-07A	W-5-MW9B

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	96.3	62-144
Surr: 4-Bromofluorobenzene	91.3	44-153

Laboratory Control Sample (LCS)

RunID: HP_U_001018B-439469 Units: mg/L
Analysis Date: 10/18/2000 10:10 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.86	86	70	130

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

Sample Spiked: 00100274-05
RunID: HP_U_001018B-439471 Units: mg/L
Analysis Date: 10/18/2000 12:34 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
Gasoline Range Organics	0.87	0.9	1.7	96.0	0.9	1.6	76.2	22.9	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
* - Recovery Outside Advisable QC Limits
D - Recovery Unreportable due to Dilution
MI - Matrix Interference

Chain of Custody

And

Sample Receipt Checklist

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. 00100261 Page 1 of 1

Exxon Engineer: Mr. Darin Rouse Phone: (925) 246-8768

Consultant Co. Name: Environmental Resolutions Inc Contact: Jim Chappell

Address: 73 Digital Dr Suite 100 Fax: (415) 382-1856

Novato CA 94949

RAS #: 7-0238 Facility/State ID # (TN Only):

AFE # (Terminal Only): Consultant Project #: 229313X

Location: 2200 E. 12th St. (City) Oakland (State) CA

☐ EE ☐ C&M ☐ SDT

Consultant Work Release #: 19802889

Sampled By: Dan Glaze

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX) — TPH/GC 8015 GRO ☒ 8015 DRO ☐; BTEX 8020 ☒ 602 ☐; MTBE 8020 ☒ 8260 ☐; OXYGENATES (7) 8260 ☐; O&G IR 413.1 ☐ GRAV. 413.2 ☐; VOL. 8260 ☐ 624 ☐; SEMI-VOL 8270 ☐ 625 ☐; PNA/PAH 8100 ☐ 8310 ☐ 8270 ☐; PCB/PEST 8081/8082 ☐ PCB ONLY ☐; TCLP FULL ☐ VOA ☐ SEMI-VOA ☐ PEST ☐ HERB ☐; METALS, TOTAL ☐ METALS, TCLP ☐; LEAD, TOTAL 239.1 ☐ 7421 ☐ LEAD, TCLP ☐; LEAD, DISSOLVED ☐ LEAD TOTAL ☐; REACTIVITY ☐ CORROSIVITY ☐ FLASH POINT ☐; PURGEABLE HYDROCARBON 8010 ☐ 601 ☐; TPH/IR 418.1 ☐; TOX/TOH ☐

OTHER

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX H_2O	SOIL	AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC	BTEX	MTBE	OXYGENATES	O&G	VOL.	SEMI-VOL	PNA/PAH	PCB/PEST	TCLP FULL	METALS	LEAD, TOTAL	LEAD, DISSOLVED	REACTIVITY	PURGEABLE HYDROCARBON	TPH/IR	TOX/TOH	OTHER
W-BB-MW9D	10/9	1620			X				HCl	2	40ml	X	X	X															
W-8-MW9D	″	1520			″				″	3		″	″	″															
W-3-MW9H	″	1630			″				″	″		″	″	″															
W-5-MW9F	″	1640			″				″	″		″	″	″															
W-6-MW9G	″	1700			″				″	″		″	″	″															
W-6-MW9A	″	1720			″				″	″		″	″	″															
W-5-MW9B	″	1715			″				″	″		″	″	″															
W-5-MW9E	″	1630			″				″	″		″	″	″															
W-6-MW9C	″	1700			″				″	″		″	″	″															

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)

REMARKS: 4

8230614431S6
SO 2210 CS

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ EDD ☐

FAX ☐ FAX C-O-C W/REPORT ☐

LAB USE ONLY Lot # Storage Location

20 NY

WORK ORDER #: 00100261 LAB WORK RELEASE #:

QA/QC Level: Standard ☒ CLP ☐ Other ☐

CUSTODY RECORD		Date	Time	
	Relinquished By Sampler: Dan Glaze	10/10	0830	Received By:
	Relinquished:	Date	Time	Received By:
	Relinquished:	Date	Time	Received By: [signature] 10/11/00 Way Bill #: Cooler Temp: 1000

Triplicate: Original • White Lab's Copy • Green Client Copy • Yellow

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

Sample Receipt Checklist

Workorder:	00100261	Received by:	Stelly, D'Anna
Date and Time Received:	10/11/00 10:00:00 AM	Carrier name:	FedEx
Temperature:	4		

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	Not Present ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	