

ExxonMobil
Refining & Supply Company
Global Remediation

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ExxonMobil
Refining & Supply

March 8, 2002

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

MAR 22 2002

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

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring Report, Fourth Quarter 2001*, dated March 8, 2002, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and discusses the results of quarterly monitoring and sampling activities at the subject site.

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

Sincerely,

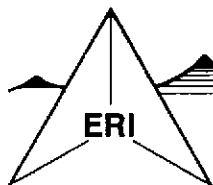


Gene N. Ortega
Territory Manager

Attachment: ERI's Quarterly Groundwater Monitoring and Remediation Status Report, Fourth Quarter 2001, dated March 8, 2002.

cc: w/ attachment
Mr. Stephen Hill, California Regional Water Quality Control Board, San Francisco Bay Region
Mr. Winson B. Low, Valero Refining Company

w/o attachment
Ms. Paula A. Sime, Environmental Resolutions, Inc.



ENVIRONMENTAL RESOLUTIONS, INC.

March 8, 2002
ERI 229313.R14

MAR 22 2002

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

Subject: Quarterly Groundwater Monitoring Report, Fourth Quarter 2001, Former Exxon Service Station 7-0238, 2200 East 12th Street, Oakland, California.

Mr. Ortega:

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

GROUNDWATER MONITORING AND SAMPLING

On October 22, 2001, 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). The calculated hydraulic gradient and groundwater flow direction are presented on Plate 2. Historical and recent monitoring data are summarized in Table 2.

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 2. 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 2. The results of analyses of groundwater samples collected during the recent sampling event are shown on Plate 2.

FUTURE ACTIVITIES

Corrective and Remedial Actions

ERI conducted a dual-phase extraction (DPE) feasibility test at the subject site on March 12 through March 16, 2001. The purpose of the test was to evaluate the effectiveness of DPE as a remedial alternative for this site. Test methods and investigation results are described in ERI's report *Dual-Phase Extraction Feasibility Test Report and Conceptual Corrective Action Plan*, dated September 19, 2001.

ERI has designed a DPE system to remediate hydrocarbon-impacted groundwater and soil vapors. ERI is in the process of obtaining the required permits and plans to install the remediation system in 2003. The DPE system will consist of a liquid-ring pump (LRP) to simultaneously extract groundwater and soil vapor from four proposed DPE wells (DPE1 through DPE4). Extracted liquid and vapor streams will be separated by an air-water separator and directed to the liquid and vapor abatement systems. The vapor stream will be abated using a catalytic oxidizer and discharged into the atmosphere under permit from the Bay Area Air Quality Management District (BAAQMD). The liquid stream will be abated with granular activated carbon (GAC) and discharged to the sanitary sewer under permit from the East Bay Municipal Utility District (EBMUD).

Quarterly Monitoring and Sampling

Monitoring and sampling of site groundwater wells is scheduled for the first quarter 2002.

DOCUMENT DISTRIBUTION

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

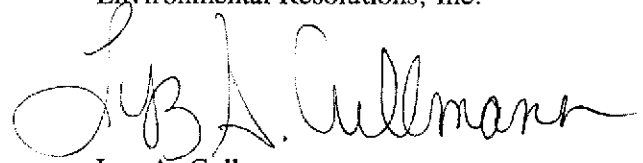
Mr. Winson B. Low
Valero Refining Company
Environmental and Safety Affairs Department
One Valero Place, MS-06E
San Antonio, Texas 78212

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, with any questions regarding this project.

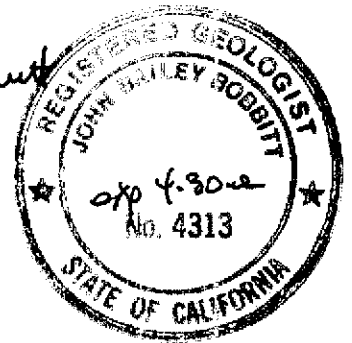
Sincerely,
Environmental Resolutions, Inc.



Lyz A. Cullmann
Staff Geologist



John B. Bobbitt
R.G. 4313



- Attachments: Table 1: Site Chronology-Environmental Activities
Table 2: 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
Summary of Environmental Activities
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California
(Page 1 of 1)

Date	Activity
May 1988	Texaco began environmental activities at the site, including a sensitive receptor study, and a preliminary investigation.
June 1988	Texaco installed three groundwater monitoring wells (MW1A through MW9C) and began quarterly monitoring and sampling of the wells.
September 1988	Texaco conducted a soil gas survey.
October 1988	Texaco installed two groundwater monitoring wells (MW9D and MW9E).
November 1988	Texaco installed three groundwater monitoring wells (MW9F through MW9H).
February 1989	Texaco performed slug tests on two on-site wells.
August 1989	Texaco submitted a Site Assessment Report.
November 1990	Texaco excavated hydrocarbon-impacted soil between the product dispensers and the sidewalk. Groundwater monitoring well MW9E was destroyed during the excavation. Groundwater monitoring well MW9E was destroyed during the excavation. Groundwater monitoring well MW9I was installed to replace MW9E.
1991	Exxon removed two 10,000-gallon single-wall steel USTs, one 7,500-gallon single-wall steel UST, and associated product piping. The USTs were replaced with three 12,000-gallon double-wall fiberglass USTs. The product lines were replaced with double-wall fiberglass lines.
August 1995	Texaco submitted a Management Plan and Work Plan for Non-Attainment Area Closure.
April 1996	Texaco submitted a Utility Trench Investigation Report.
June 1996	Texaco requested that the site be closed as a Low Risk Groundwater Closure.
July 1996	Texaco submitted an Off-site Source Report.
September 1996	Texaco began annual sampling of groundwater monitoring wells and pursuing case closure based on decreasing benzene concentrations in groundwater samples.
September 1997	Exxon removed one 550-gallon used-oil UST.
June 1999	Exxon submitted a Report of Findings detailing hydraulic gradient, groundwater flow direction, and utility line locations and depth at the site.
September 1999	Exxon submitted a Report of Tank and Line Testing.
February 2000	Exxon performed a Sensitive Receptor Survey.
June 2000	ExxonMobil sold the property, including the UST system, to Valero.
January 2001	ExxonMobil installed two vapor point wells.
March 2001	ExxonMobil performed a dual-phase extraction and feasibility test. Results of the test will be used for preliminary design of remediation system.
Present	ExxonMobil is currently in the process of obtaining necessary permits to install a remediation system at the site.

TABLE 2
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0238
2200 East 12th Street
Oakland, California
(Page 1 of 5)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev.	TPHg <.....>	MTBE <.....>	B ug/L	T ug/L	E ug/L	X ug/L
MW9A (11.46)	11/02/95	NLPH	7.16	4.30	<50	<10	<0.5	<0.5	<0.5	<0.5
	04/26/96	NLPH	6.33	5.13	---	---	---	---	---	---
	08/22/96	NLPH	7.02	4.44	---	---	---	---	---	---
(14.53)	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
	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 b	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 c
	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	14,000/11,000a	<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
	01/10/01	NLPH	6.34	8.19	<50	3,700	<0.5	<0.5	<0.5	<0.5
	04/10/01	NLPH	9.31	5.22	<50	11,000	<0.5	<0.5	<0.5	<0.5
07/12/01	NLPH	---	---	<50	3,600	<0.5	<0.5	<0.5	<0.5	
8/17/01 d	---	6.61	7.92	---	---	---	---	---	---	
10/11/01	NLPH	7.03	7.50	<50	1,700	<0.5	<0.5	<0.5	<0.5	
MW9B (9.80)	11/02/95	NLPH	6.14	3.66	130	<10	3.3	<0.5	<0.5	<0.5
	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
(12.83)	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
	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	34,000/26,000a	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
	01/10/01	NLPH	5.56	7.27	<250	32,000	5.3	<0.5	<0.5	<0.5
	04/10/01	NLPH	5.40	7.43	360	27,000	69.0	<2.5	22.0	29.8

TABLE 2
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0238
 2200 East 12th Street
 Oakland, California
 (Page 2 of 5)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev. >.....<	TPHg <.....>	MTBE <.....>	B ug/L	T >.....<	E >.....<	X >.....<	
MW9B (cont.) (12.83)	07/12/01	NLPH	---	---	<250	41,000	<2.5	<2.5	<2.5	<2.5	
	8/17/01 d	---	5.83	7.00	---	---	---	---	---	---	
	10/11/01	NLPH	8.70	4.13	<250	24,000	<2.5	<2.5	<2.5	<2.5	
MW9C (11.14)	11/02/95	---	---	---	---	---	---	---	---	---	
	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	130,000/150,000a	<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
	01/10/01	NLPH	6.09	8.10	<250	42,000	<2.5	<2.5	<2.5	<2.5	
04/10/01	NLPH	7.88	6.31	<250	35,000	<2.5	<2.5	<2.5	<2.5		
07/12/01	NLPH	---	---	<250	32,000	<2.5	<2.5	<2.5	<2.5		
8/17/01 d	---	6.60	7.59	---	---	---	---	---	---		
10/11/01	NLPH	6.67	7.52	<250	53,000	<2.5	<2.5	<2.5	<2.5		
MW9D (12.90)	11/02/95	---	---	---	---	---	---	---	---	---	
	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		

TABLE 2
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0238
 2200 East 12th Street
 Oakland, California
 (Page 3 of 5)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev.	TPHg <.....>	MTBE	B ug/L	T	E	X
MW9D (cont.) (15.98)	10/09/00	NLPH	8.02	7.96	<50	14	<0.5	<0.5	<0.5	<0.5
	01/10/01	NLPH	7.26	8.72	<50	18	<0.5	<0.5	<0.5	<0.5
	04/10/01	NLPH	7.32	8.66	<50	14	<0.5	<0.5	<0.5	<0.5
	07/12/01	NLPH	--	--	<50	22	<0.5	<0.5	<0.5	<0.5
	08/17/01 e	---	---	---	---	---	---	---	---	---
	10/11/01	NLPH	8.16	7.82	<50	24	<0.5	<0.5	<0.5	<0.5
MW9F (8.37)	11/02/95	---	---	---	---	---	---	---	---	---
	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
	01/10/01	NLPH	4.30	7.08	<50	140	<0.5	<0.5	<0.5	<0.5
	04/10/01	NLPH	5.20	6.18	<50	50	<0.5	<0.5	<0.5	<0.5
	07/12/01	NLPH	--	--	<50	190	<0.5	<0.5	<0.5	<0.5
08/17/01 e	--	--	--	--	--	--	--	--	--	
10/11/01	NLPH	5.82	5.56	<50	260	<0.5	<0.5	<0.5	<0.5	
MW9G (9.95)	11/02/95	NLPH	5.92	4.03	<50	<10	<0.5	<0.5	<0.5	<0.5
	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 c

TABLE 2
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0238
 2200 East 12th Street
 Oakland, California
 (Page 4 of 5)

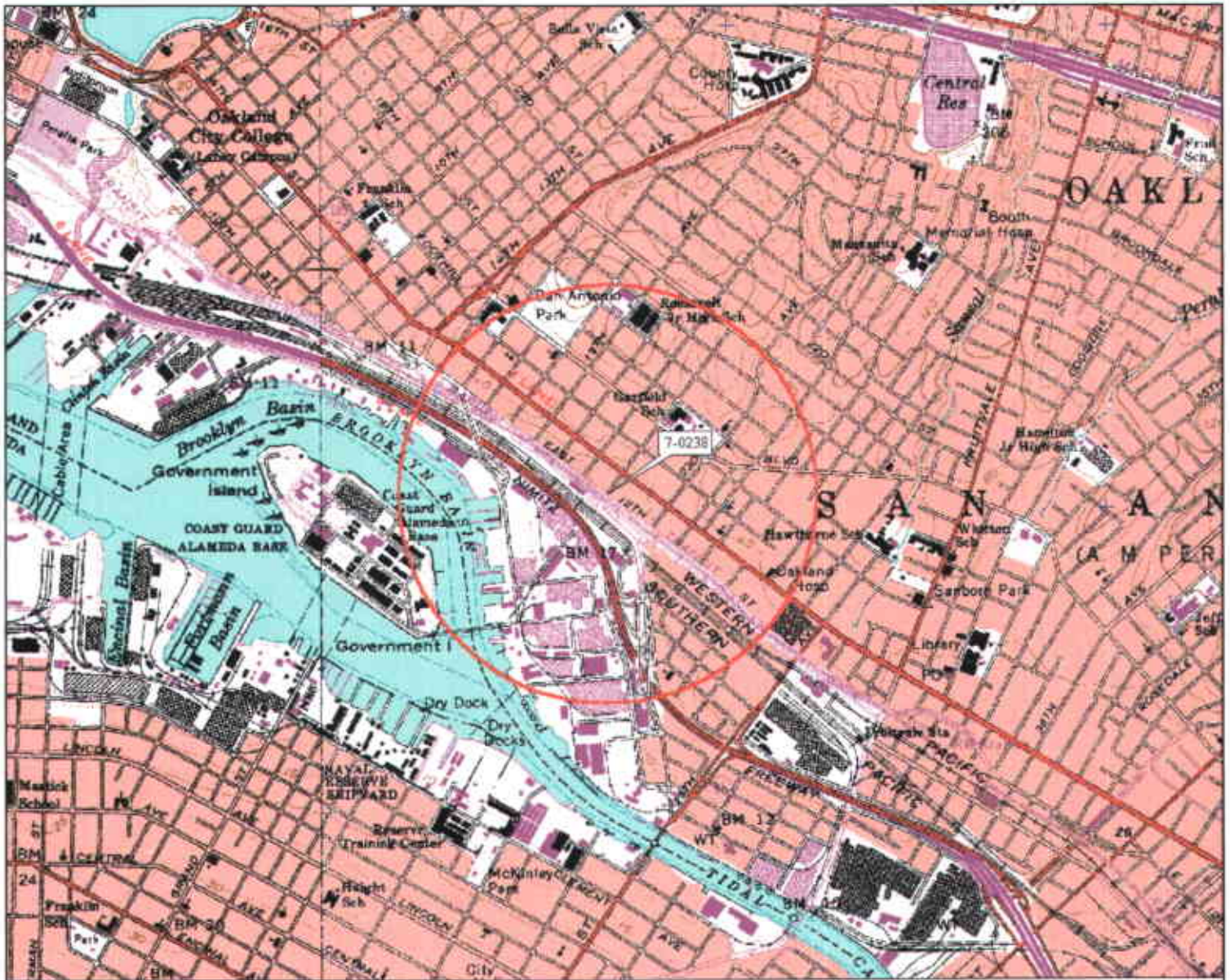
Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev. >.....<	TPHg <.....>	MTBE	B ug/L	T	E	X >.....<	
MW9G (cont.) (12.99)	02/29/00	NLPH	4.60	8.39	<50	7,900	<0.5	<0.5	<0.5	<0.5	
	05/18/00	NLPH	5.16	7.83	<50	2,400	<0.5	<0.5	<0.5	<0.5	
	07/24/00	NLPH	5.20	7.79	<50	1,000	<0.5	<0.5	<0.5	<0.5	
	10/09/00	NLPH	5.26	7.73	<50	180	<0.5	<0.5	<0.5	<0.5	
	01/10/01	NLPH	5.18	7.81	<50	1,200	<0.5	<0.5	<0.5	<0.5	
	04/10/01	NLPH	5.08	7.91	<50	9,100	<0.5	<0.5	<0.5	<0.5	
	07/12/01	NLPH	--	--	<50	3,000	<0.5	<0.5	<0.5	<0.5	
	8/17/01 e	---	---	---	---	---	---	---	---	---	
	10/11/01	NLPH	5.48	7.51	<50	1,600	<0.5	<0.5	<0.5	<0.5	
MW9H (8.58)	11/02/95	NLPH	8.40	0.18	<50	<10	<0.5	<0.5	<0.5	<0.5	
	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 c	
	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	
	01/10/01	NLPH	7.89	3.72	<50	11	<0.5	<0.5	<0.5	0.5	
04/10/01	NLPH	8.71	2.90	<50	44	<0.5	0.78	0.52	2.36		
07/12/01	NLPH	--	--	<50	28	<0.5	<0.5	<0.5	<0.5		
8/17/01 e	---	---	---	---	---	---	---	---	---		
10/11/01	NLPH	8.15	3.46	<50	30	<0.5	<0.5	<0.5	<0.5		
MW9I (10.11)	11/02/95	NLPH	6.04	4.07	<50	<10	<0.5	<0.5	<0.5	<0.5	
	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	

TABLE 2
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-0238
 2200 East 12th Street
 Oakland, California
 (Page 5 of 5)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet.....>	Elev. >	TPHg <.....>	MTBE <.....>	B ug/L	T ug/L	E ug/L	X ug/L
MW91 (cont.) (13.14)	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
	01/10/01	NLPH	5.24	7.90	<250	36,000	<2.5	<2.5	<2.5	<2.5
	04/10/01	NLPH	4.84	8.30	<50	4,800	<0.5	<0.5	<0.5	<0.5
	07/12/01	NLPH	---	---	<50	8,400	<0.5	<0.5	<0.5	<0.5
	08/17/01	---	6.49	6.65	---	---	---	---	---	---
	10/11/01	NLPH	5.64	7.50	<250	38,000	<2.5	<2.5	<2.5	<2.5

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.
- TPHg = Total 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.
- ug/L = Micrograms per Liter.
- a = MTBE confirmed using EPA Method 8260.
- b = Miscalculation in field. Field technician may have inadvertently monitored and sampled the wrong well. Resampled 5/27/99.
- c = Analyte detected in the associated Trip Blank at 0.52 ug/L.
- d = Due to measurement error during initial sampling event, DTW was re-measured on August 17, 2001. No samples were taken.
- e = Well inaccessible due to uncontrollable traffic conditions.



© TopoQuads Copyright © 1999 DeLorme Yosemite, ME 04096 Source Data: USGS | 5000 Scale: 1:10,000 Detail: 1:4 Index: W1284

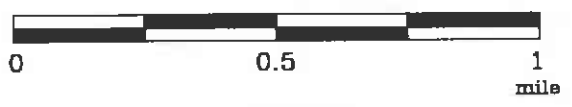
FN 2293TOPO

EXPLANATION



1/2-mile radius circle

APPROXIMATE SCALE



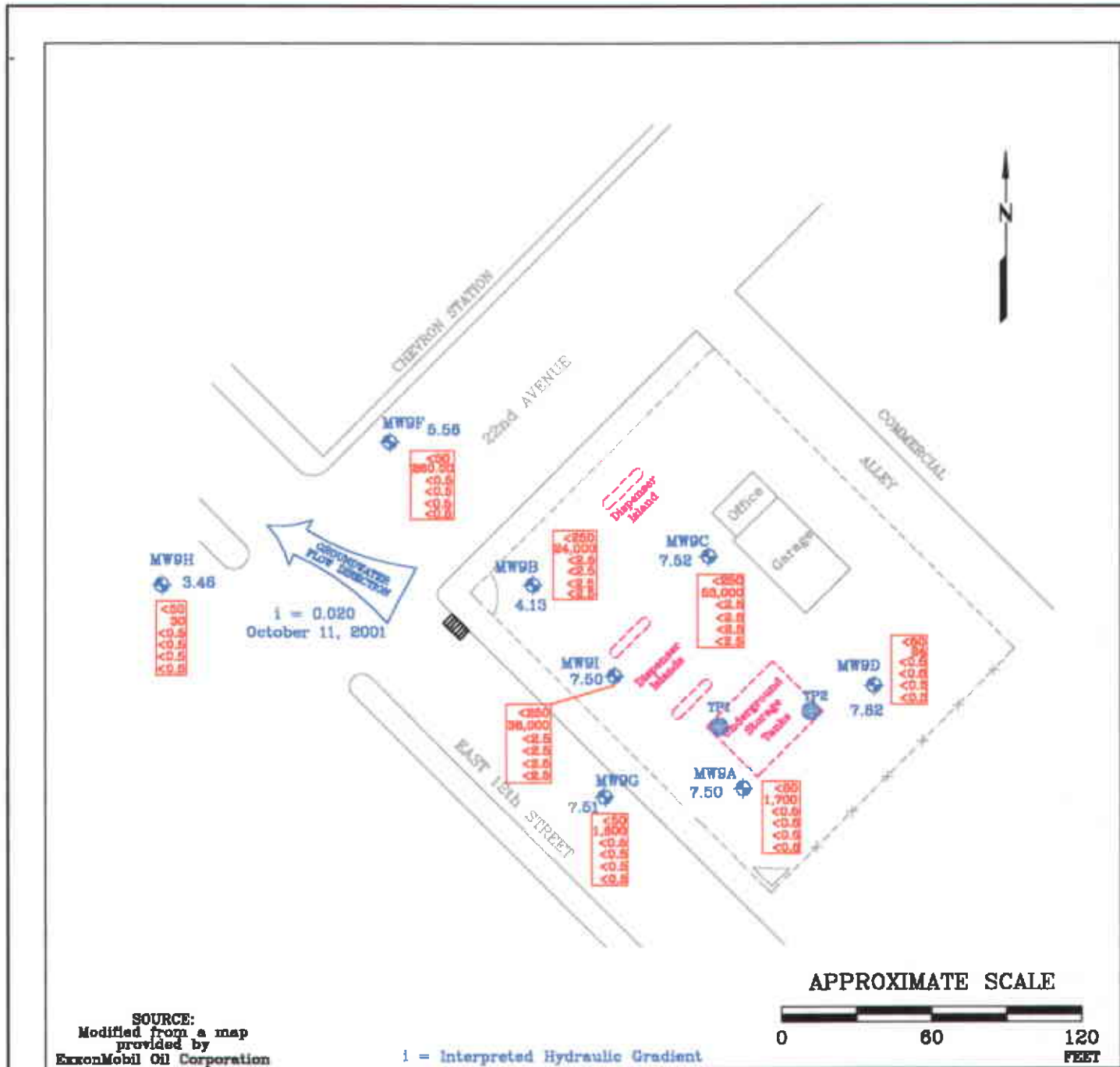
SOURCE:
Modified from a map
provided by
DeLorme 3-D TopoQuads



SITE VICINITY MAP

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

PROJECT NO.
2293
PLATE
1



GENERALIZED SITE PLAN

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

PROJECT NO.
2293
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.

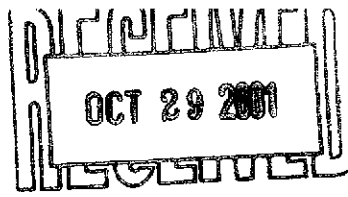
After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples". Water samples are collected with a new, disposable 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:

01100556

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: 229313x Site: 7-0238 Site Address: 2200 East 12th Oakland CA PO Number: EWR#21040347 State: California State Cert. No.: 1903 Date Reported: 10/23/01
--	--

This Report Contains A Total Of 18 Pages

Excluding This Page

And

Chain Of Custody

10/23/01

Date



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

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

Certificate of Analysis Number:

01100556

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: 229313x Site: 7-0238 Site Address: 2200 East 12th Oakland CA PO Number: EWR#21040347 State: California State Cert. No.: 1903 Date Reported: 10/23/01
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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
Senior Project Manager



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

EXXON Company U.S.A.

Certificate of Analysis Number:

01100556

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: 229313x
Site: 7-0238
Site Address: 2200 East 12th
 Oakland CA
PO Number: EWR#21040347
State: California
State Cert. No.: 1903
Date Reported: 10/23/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
TB	01100556-01	Water	10/11/01	10/12/01 10:00:00 AM		<input type="checkbox"/>
BB	01100556-02	Water	10/11/01 12:15:00 PM	10/12/01 10:00:00 AM		<input type="checkbox"/>
MW9D	01100556-03	Water	10/11/01 12:25:00 PM	10/12/01 10:00:00 AM		<input type="checkbox"/>
MW9H	01100556-04	Water	10/11/01 10:25:00 AM	10/12/01 10:00:00 AM		<input type="checkbox"/>
MW9F	01100556-05	Water	10/11/01 11:00:00 AM	10/12/01 10:00:00 AM		<input type="checkbox"/>
MW9G	01100556-06	Water	10/11/01 9:50:00 AM	10/12/01 10:00:00 AM		<input type="checkbox"/>
MW9A	01100556-07	Water	10/11/01 12:30:00 PM	10/12/01 10:00:00 AM		<input type="checkbox"/>
MW9I	01100556-08	Water	10/11/01 12:35:00 PM	10/12/01 10:00:00 AM		<input type="checkbox"/>
MW9C	01100556-09	Water	10/11/01 12:45:00 PM	10/12/01 10:00:00 AM		<input type="checkbox"/>
MW9B	01100556-10	Water	10/11/01 12:50:00 PM	10/12/01 10:00:00 AM		<input type="checkbox"/>

Sonia West

Sonia West
 Senior Project Manager

10/23/01

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 Collected: 10/11/01 SPL Sample ID: 01100556-01

Site: 7-0238

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		10/19/01 22:17	DL	870298
Surr: 1,4-Difluorobenzene	100 %	62-144	1		10/19/01 22:17	DL	870298
Surr: 4-Bromofluorobenzene	98.7 %	44-153	1		10/19/01 22:17	DL	870298
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/19/01 22:17	DL	870251
Ethylbenzene	ND	0.5	1		10/19/01 22:17	DL	870251
Methyl tert-butyl ether	ND	2	1		10/19/01 22:17	DL	870251
Toluene	ND	0.5	1		10/19/01 22:17	DL	870251
m,p-Xylene	ND	0.5	1		10/19/01 22:17	DL	870251
o-Xylene	ND	0.5	1		10/19/01 22:17	DL	870251
Xylenes, Total	ND	0.5	1		10/19/01 22:17	DL	870251
Surr: 1,4-Difluorobenzene	109 %	72-137	1		10/19/01 22:17	DL	870251
Surr: 4-Bromofluorobenzene	107 %	48-156	1		10/19/01 22:17	DL	870251

Sonia West

Sonia West

Project Manager

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



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

Client Sample ID BB

Collected: 10/11/01 12:15:0 SPL Sample ID: 01100556-02

Site: 7-0238

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		10/19/01 22:41	DL	870299
Surr: 1,4-Difluorobenzene	98.0	% 62-144	1		10/19/01 22:41	DL	870299
Surr: 4-Bromofluorobenzene	97.3	% 44-153	1		10/19/01 22:41	DL	870299
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/19/01 22:41	DL	870252
Ethylbenzene	ND	0.5	1		10/19/01 22:41	DL	870252
Methyl tert-butyl ether	ND	2	1		10/19/01 22:41	DL	870252
Toluene	ND	0.5	1		10/19/01 22:41	DL	870252
m,p-Xylene	ND	0.5	1		10/19/01 22:41	DL	870252
o-Xylene	ND	0.5	1		10/19/01 22:41	DL	870252
Xylenes, Total	ND	0.5	1		10/19/01 22:41	DL	870252
Surr: 1,4-Difluorobenzene	108	% 72-137	1		10/19/01 22:41	DL	870252
Surr: 4-Bromofluorobenzene	107	% 48-156	1		10/19/01 22:41	DL	870252

Sonia West

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Project Manager

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

Client Sample ID MW9D

Collected: 10/11/01 12:25:0 SPL Sample ID: 01100556-03

Site: 7-0238

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		10/19/01 23:06	DL	870300
Surr: 1,4-Difluorobenzene	101	% 62-144	1		10/19/01 23:06	DL	870300
Surr: 4-Bromofluorobenzene	97.7	% 44-153	1		10/19/01 23:06	DL	870300
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/19/01 23:06	DL	870253
Ethylbenzene	ND	0.5	1		10/19/01 23:06	DL	870253
Methyl tert-butyl ether	24	2	1		10/19/01 23:06	DL	870253
Toluene	ND	0.5	1		10/19/01 23:06	DL	870253
m,p-Xylene	ND	0.5	1		10/19/01 23:06	DL	870253
o-Xylene	ND	0.5	1		10/19/01 23:06	DL	870253
Xylenes, Total	ND	0.5	1		10/19/01 23:06	DL	870253
Surr: 1,4-Difluorobenzene	106	% 72-137	1		10/19/01 23:06	DL	870253
Surr: 4-Bromofluorobenzene	108	% 48-156	1		10/19/01 23:06	DL	870253

Sonia West

Sonia West

Project Manager

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



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

Client Sample ID MW9H

Collected: 10/11/01 10:25:0 SPL Sample ID: 01100556-04

Site: 7-0238

Analyses/Method	Result	Rep.Limit	MCL	CA GRO	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			MCL	CA GRO			Units: ug/L		
Gasoline Range Organics	ND	50			1		10/19/01 23:30	DL	870301
Surr: 1,4-Difluorobenzene	97.3	% 62-144			1		10/19/01 23:30	DL	870301
Surr: 4-Bromofluorobenzene	98.7	% 44-153			1		10/19/01 23:30	DL	870301
PURGEABLE AROMATICS			MCL	SW8021B			Units: ug/L		
Benzene	ND	0.5			1		10/19/01 23:30	DL	870254
Ethylbenzene	ND	0.5			1		10/19/01 23:30	DL	870254
Methyl tert-butyl ether	30	2			1		10/19/01 23:30	DL	870254
Toluene	ND	0.5			1		10/19/01 23:30	DL	870254
m,p-Xylene	ND	0.5			1		10/19/01 23:30	DL	870254
o-Xylene	ND	0.5			1		10/19/01 23:30	DL	870254
Xylenes, Total	ND	0.5			1		10/19/01 23:30	DL	870254
Surr: 1,4-Difluorobenzene	110	% 72-137			1		10/19/01 23:30	DL	870254
Surr: 4-Bromofluorobenzene	108	% 48-156			1		10/19/01 23:30	DL	870254

Sonia West

Sonia West

Project Manager

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



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

Client Sample ID MW9F

Collected: 10/11/01 11:00:0 SPL Sample ID: 01100556-05

Site: 7-0238

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		10/19/01 23:55	DL	870302
Surr: 1,4-Difluorobenzene	99.0 %	62-144	1		10/19/01 23:55	DL	870302
Surr: 4-Bromofluorobenzene	95.7 %	44-153	1		10/19/01 23:55	DL	870302
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/19/01 23:55	DL	870255
Ethylbenzene	ND	0.5	1		10/19/01 23:55	DL	870255
Methyl tert-butyl ether	260	2	1		10/19/01 23:55	DL	870255
Toluene	ND	0.5	1		10/19/01 23:55	DL	870255
m,p-Xylene	ND	0.5	1		10/19/01 23:55	DL	870255
o-Xylene	ND	0.5	1		10/19/01 23:55	DL	870255
Xylenes, Total	ND	0.5	1		10/19/01 23:55	DL	870255
Surr: 1,4-Difluorobenzene	108 %	72-137	1		10/19/01 23:55	DL	870255
Surr: 4-Bromofluorobenzene	106 %	48-156	1		10/19/01 23:55	DL	870255

Sonia West

Sonia West
 Project Manager

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



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

Client Sample ID MW9G

Collected: 10/11/01 9:50:00 SPL Sample ID: 01100556-06

Site: 7-0238

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		10/20/01 0:19	DL	870303
Surr: 1,4-Difluorobenzene	101	% 62-144	1		10/20/01 0:19	DL	870303
Surr: 4-Bromofluorobenzene	98.3	% 44-153	1		10/20/01 0:19	DL	870303
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/20/01 0:19	DL	870256
Ethylbenzene	ND	0.5	1		10/20/01 0:19	DL	870256
Methyl tert-butyl ether	1600	20	10		10/20/01 10:39	DL	870273
Toluene	ND	0.5	1		10/20/01 0:19	DL	870256
m,p-Xylene	ND	0.5	1		10/20/01 0:19	DL	870256
o-Xylene	ND	0.5	1		10/20/01 0:19	DL	870256
Xylenes, Total	ND	0.5	1		10/20/01 0:19	DL	870256
Surr: 1,4-Difluorobenzene	106	% 72-137	1		10/20/01 0:19	DL	870256
Surr: 1,4-Difluorobenzene	108	% 72-137	10		10/20/01 10:39	DL	870273
Surr: 4-Bromofluorobenzene	106	% 48-156	1		10/20/01 0:19	DL	870256
Surr: 4-Bromofluorobenzene	106	% 48-156	10		10/20/01 10:39	DL	870273

Sonia West

Sonia West

Project Manager

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



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

Client Sample ID MW9A

Collected: 10/11/01 12:30:0 SPL Sample ID: 01100556-07

Site: 7-0238

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		10/20/01 0:44	DL	870304
Surr: 1,4-Difluorobenzene	97.0 %	62-144	1		10/20/01 0:44	DL	870304
Surr: 4-Bromofluorobenzene	101 %	44-153	1		10/20/01 0:44	DL	870304
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	0.5	1		10/20/01 0:44	DL	870257
Ethylbenzene	ND	0.5	1		10/20/01 0:44	DL	870257
Methyl tert-butyl ether	1700	20	10		10/20/01 11:04	DL	870274
Toluene	ND	0.5	1		10/20/01 0:44	DL	870257
m,p-Xylene	ND	0.5	1		10/20/01 0:44	DL	870257
o-Xylene	ND	0.5	1		10/20/01 0:44	DL	870257
Xylenes, Total	ND	0.5	1		10/20/01 0:44	DL	870257
Surr: 1,4-Difluorobenzene	104 %	72-137	10		10/20/01 11:04	DL	870274
Surr: 1,4-Difluorobenzene	106 %	72-137	1		10/20/01 0:44	DL	870257
Surr: 4-Bromofluorobenzene	107 %	48-156	1		10/20/01 0:44	DL	870257
Surr: 4-Bromofluorobenzene	109 %	48-156	10		10/20/01 11:04	DL	870274

Sonia West

Sonia West

Project Manager

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



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

Client Sample ID MW91

Collected: 10/11/01 12:35:0 SPL Sample ID: 01100556-08

Site: 7-0238

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		10/20/01 1:08	DL	870305
Surr: 1,4-Difluorobenzene	100 %	62-144	5		10/20/01 1:08	DL	870305
Surr: 4-Bromofluorobenzene	99.3 %	44-153	5		10/20/01 1:08	DL	870305
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	2.5	5		10/20/01 1:08	DL	870258
Ethylbenzene	ND	2.5	5		10/20/01 1:08	DL	870258
Methyl tert-butyl ether	38000	400	200		10/20/01 11:28	DL	870275
Toluene	ND	2.5	5		10/20/01 1:08	DL	870258
m,p-Xylene	ND	2.5	5		10/20/01 1:08	DL	870258
o-Xylene	ND	2.5	5		10/20/01 1:08	DL	870258
Xylenes, Total	ND	2.5	5		10/20/01 1:08	DL	870258
Surr: 1,4-Difluorobenzene	105 %	72-137	200		10/20/01 11:28	DL	870275
Surr: 1,4-Difluorobenzene	106 %	72-137	5		10/20/01 1:08	DL	870258
Surr: 4-Bromofluorobenzene	105 %	48-156	200		10/20/01 11:28	DL	870275
Surr: 4-Bromofluorobenzene	108 %	48-156	5		10/20/01 1:08	DL	870258

Sonia West

Sonia West
 Project Manager

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



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

Client Sample ID MW9C

Collected: 10/11/01 12:45:0 SPL Sample ID: 01100556-09

Site: 7-0238

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		10/20/01 12:41	DL	870319
Surr: 1,4-Difluorobenzene	99.9 %	62-144	5		10/20/01 12:41	DL	870319
Surr: 4-Bromofluorobenzene	97.2 %	44-153	5		10/20/01 12:41	DL	870319
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	2.5	5		10/20/01 12:41	DL	870278
Ethylbenzene	ND	2.5	5		10/20/01 12:41	DL	870278
Methyl tert-butyl ether	53000	500	250		10/20/01 12:17	DL	870277
Toluene	ND	2.5	5		10/20/01 12:41	DL	870278
m,p-Xylene	ND	2.5	5		10/20/01 12:41	DL	870278
o-Xylene	ND	2.5	5		10/20/01 12:41	DL	870278
Xylenes, Total	ND	2.5	5		10/20/01 12:41	DL	870278
Surr: 1,4-Difluorobenzene	106 %	72-137	5		10/20/01 12:41	DL	870278
Surr: 1,4-Difluorobenzene	106 %	72-137	250		10/20/01 12:17	DL	870277
Surr: 4-Bromofluorobenzene	110 %	48-156	5		10/20/01 12:41	DL	870278
Surr: 4-Bromofluorobenzene	108 %	48-156	250		10/20/01 12:17	DL	870277

Sonia West

Sonia West

Project Manager

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



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

Client Sample ID MW9B

Collected: 10/11/01 12:50:0 SPL Sample ID: 01100556-10

Site: 7-0238

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		10/20/01 1:57	DL	870306
Surr: 1,4-Difluorobenzene	100	% 62-144	5		10/20/01 1:57	DL	870306
Surr: 4-Bromofluorobenzene	93.0	% 44-153	5		10/20/01 1:57	DL	870306
PURGEABLE AROMATICS			MCL	SW8021B	Units: ug/L		
Benzene	ND	2.5	5		10/20/01 1:57	DL	870259
Ethylbenzene	ND	2.5	5		10/20/01 1:57	DL	870259
Methyl tert-butyl ether	24000	200	100		10/20/01 11:53	DL	870276
Toluene	ND	2.5	5		10/20/01 1:57	DL	870259
m,p-Xylene	ND	2.5	5		10/20/01 1:57	DL	870259
o-Xylene	ND	2.5	5		10/20/01 1:57	DL	870259
Xylenes, Total	ND	2.5	5		10/20/01 1:57	DL	870259
Surr: 1,4-Difluorobenzene	108	% 72-137	5		10/20/01 1:57	DL	870259
Surr: 1,4-Difluorobenzene	107	% 72-137	100		10/20/01 11:53	DL	870276
Surr: 4-Bromofluorobenzene	103	% 48-156	5		10/20/01 1:57	DL	870259
Surr: 4-Bromofluorobenzene	105	% 48-156	100		10/20/01 11:53	DL	870276

Sonia West

Sonia West
 Project Manager

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

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

Quality Control Documentation



Quality Control Report

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

EXXON Company U.S.A.

229313x

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01100556
Lab Batch ID: R45812

Method Blank

Samples in Analytical Batch:

RunID: VARE_011019B-870248 Units: ug/L
Analysis Date: 10/19/2001 19:50 Analyst: DL

Table with 2 columns: Lab Sample ID, Client Sample ID. Lists samples 01100556-01A through 01100556-10A with corresponding client IDs like TB, BB, MW9D, etc.

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

Laboratory Control Sample (LCS)

RunID: VARE_011019B-870247 Units: ug/L
Analysis Date: 10/19/2001 19:01 Analyst: DL

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Shows recovery data for Benzene, Ethylbenzene, Methyl tert-butyl ether, Toluene, m,p-Xylene, o-Xylene, and Xylenes, Total.

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

Sample Spiked: 01100556-03
RunID: VARE_011019B-870249 Units: ug/L
Analysis Date: 10/19/2001 20:14 Analyst: DL

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

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

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



Quality Control Report

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

EXXON Company U.S.A.
229313x

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01100556
Lab Batch ID: R45812

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

Sample Spiked: 01100556-03
RunID: VARE_0110198-870249 Units: ug/L
Analysis Date: 10/19/2001 20:14 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
Ethylbenzene	ND	20	21	105	20	21	106	0.981	19	52	142
Methyl tert-butyl ether	24	20	43	95.0	20	43	95.5	0.592	20	39	150
Toluene	ND	20	21	102	20	21	103	0.543	20	38	159
m,p-Xylene	ND	40	43	107	40	43	108	0.665	17	53	144
o-Xylene	ND	20	21	105	20	21	106	0.588	18	53	143
Xylenes, Total	ND	60	64	107	60	64	107	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.

229313x

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01100556
Lab Batch ID: R45816

Method Blank

Samples in Analytical Batch:

RunID: VARE_011019C-870295 Units: mg/L
Analysis Date: 10/19/2001 19:50 Analyst: DL

Table with 2 columns: Lab Sample ID, Client Sample ID. Lists samples 01A through 10A with corresponding client IDs TB, BB, MW9D, etc.

Table with 3 columns: Analyte, Result, Rep Limit. Rows for Gasoline Range Organics (ND, 0.050), Surr: 1,4-Difluorobenzene (97.0, 62-144), Surr: 4-Bromofluorobenzene (99.3, 44-153).

Laboratory Control Sample (LCS)

RunID: VARE_011019C-870294 Units: mg/L
Analysis Date: 10/19/2001 19:25 Analyst: DL

Table with 6 columns: Analyte, Spike Added, Result, Percent Recovery, Lower Limit, Upper Limit. Row for Gasoline Range Organics (Spike: 1, Result: 0.81, Recovery: 81, Lower: 70, Upper: 130).

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

Sample Spiked: 01100556-04
RunID: VARE_011019C-870296 Units: mg/L
Analysis Date: 10/19/2001 21:03 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 (MS Spike: 0.9, MS Result: 0.88, MS %: 98.3, MSD Spike: 0.9, MSD Result: 0.85, MSD %: 93.9, RPD: 4.57, 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:	01100556	Received By:	DS
Date and Time Received:	10/12/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	4	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:	<input type="text"/>	Contact Date & Time:	<input type="text"/>
Client Name Contacted:	<input type="text"/>		
Non Conformance Issues:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

EXXON COMPANY, USA.

(West Coast)

CHAIN OF CUSTODY RECORD NO. _____

Page _____ of _____

Exxon Engineer: Gene Ortega Phone: 925-246-8747
 Consultant Co. Name: ERT Contact: Scott Thompson / LAL
 Address: 23 Digital Dr Fax: 415-382-1856
Suite 100, Novato CA 94949
 RAS #: 70238 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 #: 21040347
 Sampled By: _____

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

OTHER

NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GRO <input checked="" type="checkbox"/> 8015 DRO <input checked="" type="checkbox"/>	BTEX 8020 <input checked="" type="checkbox"/>	MTBE 8020 <input checked="" type="checkbox"/>	OXYGENATES (7) 8260 <input checked="" type="checkbox"/>	O&G IR 413.1 <input type="checkbox"/> GRAV. 413.2 <input type="checkbox"/>	VOL. 8260 <input type="checkbox"/>	SEMI-VOL 8270 <input type="checkbox"/> 825 <input type="checkbox"/>	PNA/PAH 8100 <input type="checkbox"/> 8310 <input type="checkbox"/> 8270 <input type="checkbox"/>	PCB/PEST 8081/8082 <input type="checkbox"/> PCB ONLY <input type="checkbox"/>	TCLP PULL <input type="checkbox"/> VOL <input type="checkbox"/> SEMI-VOL <input type="checkbox"/> PEST <input type="checkbox"/> HERB <input type="checkbox"/>	METALS, TOTAL <input type="checkbox"/> METALS, TCLP <input type="checkbox"/>	LEAD, TOTAL 239.1 <input type="checkbox"/> 7421 <input type="checkbox"/> LEAD, TCLP <input type="checkbox"/>	LEAD, DISSOLVED <input type="checkbox"/> LEAD TOTAL <input type="checkbox"/>	REACTIVITY <input type="checkbox"/> CORROSION <input type="checkbox"/> FLASH POINT <input type="checkbox"/>	PURGEABLE HYDROCARBON 8010 <input type="checkbox"/> 601 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/>	TOX/FOH <input type="checkbox"/>
2	4ml																	
2																		
3																		

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE
					H ₂ O	SOIL	AIR		
TB									HCl
BB	10-1-01	1215							
MW9D		1225							
MW9H		1025							
MW9F		1100							
MW9G		950							
MW9A		1230							
MW9I		1235							
MW9C		1245							
MW9B	✓	1250		✓	✓				

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:

SPECIAL REPORTING REQUIREMENTS (Specify)

LAB USE ONLY Lot # _____ Storage Location _____

PDF ADD
 FAX FAX C-O-C W/REPORT

WORK ORDER # 01100556 LAB WORK RELEASE # 21040347

CUSTODY RECORD

Relinquished By Sampler: <u>[Signature]</u>	Date: <u>11-11-01</u> Time: <u>1400</u>	Received By: _____
Relinquished: _____	Date: _____ Time: _____	Received By: _____
Relinquished: _____	Date: _____ Time: _____	Received By: <u>[Signature]</u> Cooler Temp: <u>1000</u>