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Gene N. Ortega
Territory Manager
Global Remediation-US Retail

ExxonMobil
Refining & Supply

July 5, 2001

JUL 10 2001

Ms. Eva Chu
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RE: Former Exxon RAS #7-0104/1725 Park Street, Alameda, California.

Dear Ms. Chu:

Attached for your review and comment is a letter report entitled ***Quarterly Groundwater Monitoring and Remediation Status Report, Second Quarter 2001***, dated July 5, 2001, 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, sampling, and remedial 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, Second Quarter 2001, dated July 5, 2001.

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

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

ENVIRONMENTAL RESOLUTIONS, INC.

July 5, 2001
ERI 250611.R04

JUL 10 2001

Mr. Gene N. Ortega
ExxonMobil Refining and Supply
P.O. Box 4032
Concord, California 94524-4032

Subject: Quarterly Groundwater Monitoring and Remediation Status Report, Second Quarter 2001, Former Exxon Service Station 7-0104, 1725 Park Street, Alameda, California.

Mr. Ortega:

At the request of ExxonMobil Refining and Supply (formerly Exxon Company, U.S.A.) (ExxonMobil), Environmental Resolutions, Inc. (ERI) performed the second quarter 2001 groundwater monitoring and sampling activities at the subject site. 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 the effectiveness of remedial actions. The locations of selected site features are shown on the Generalized Site Plan (Plate 2).

GROUNDWATER MONITORING AND SAMPLING

On April 2, 2000, ERI measured the depth to water (DTW) and collected groundwater samples from select wells for laboratory analysis. Groundwater monitoring and sampling were performed in accordance with ERI's groundwater sampling protocol (Attachment A).

Historical and recent monitoring data are summarized in Table 1. Due to ongoing soil and groundwater remediation, the hydraulic gradient and groundwater flow direction may be affected, and therefore, were not calculated.

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 total petroleum hydrocarbons as gasoline (TPHg); total petroleum hydrocarbons as diesel (TPHd); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tertiary butyl ether (MTBE). The specific methods of analysis are listed in the notes in Table 1. The results of analyses are presented in Table 1 and are shown on Plate 2. The laboratory analysis report and Chain-of-Custody record are attached (Attachment B).

SOIL AND GROUNDWATER REMEDIATION

Air Sparge/Soil Vapor Extraction

The air sparge/soil vapor extraction (AS/SVE) system began operation on February 16, 1998. ERI assumed operation of the system on April 1, 2000. The operation and performance data provided by the previous consultant are presented in Attachment C. The AS/SVE system was shutdown on March 24, 2000, pending system evaluation. At the completion of retrofit activities, the system resumed operation on June 28, 2000. Operational and performance data collected by ERI are presented in Table 2.

The AS/SVE system consists of six AS wells, two SVE wells, a horizontal SVE trench, a moisture separator, a Sutorbuilt 100 standard cubic feet per minute (scfm) vacuum blower, a Gast AS compressor, and two 500-pound vapor-phase granular activated carbon (GAC) vessels. ERI's standard operating procedure for calculating pounds of hydrocarbons in air stream is attached (Attachment D).

Groundwater Extraction and Treatment

The groundwater remediation system (GRS) is designed to remove and treat separate-phase hydrocarbons, and groundwater with dissolved hydrocarbons. Pneumatic pumps are utilized to extract groundwater from extraction wells EW1 through EW5. Subsurface and above-ground piping are used to transfer extracted groundwater to the treatment system. A transfer pump and polyvinyl chloride (PVC) piping are used to direct the water stream through sediment filters and liquid-phase GAC vessels connected in series. The treated groundwater is discharged to the sanitary sewer under an East Bay Municipal Utilities District (EBMUD) discharge permit.

The GRS system was shut down on March 24, 2000, pending system evaluation. Cumulative GRS flow rates, total volume extracted, and influent, intermediate, and effluent sample concentrations are presented in Table 3.

SUMMARY AND STATUS OF INVESTIGATION

The table below presents the estimated amounts of gasoline hydrocarbons removed by the AS/SVE system since the last reporting period and since startup.

Period	Pounds of Hydrocarbons Removed	Gallons of Hydrocarbons Removed
01/9/01 – 06/4/01	<324.66	<53.3
To Date:	<481.08	<79.0

The table below presents the estimated amounts of hydrocarbons removed by the GRS since startup.

Period	Pounds of Hydrocarbons Removed	Gallons of Hydrocarbons Removed
To Date:	29.2	4.8

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:

Ms. Eva Chu
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. Scott R. Graham at (415) 382-5989 with any questions regarding this project.

Sincerely,
Environmental Resolutions, Inc.

Scott R. Graham
Assistant Project Manager

John B. Bobbitt
R.G. 4313

Attachments:

Table 1:	Cumulative Groundwater Monitoring and Sampling Data
Table 2:	Cumulative Hydrocarbon Removal and Emissions for Soil Vapor Extraction System
Table 3:	Operation and Performance Data for Groundwater Remediation System
Plate 1:	Site Vicinity Map
Plate 2:	Generalized Site Plan
Attachment A:	Groundwater Sampling Protocol
Attachment B:	Laboratory Analysis Reports and Chain-of-Custody Records
Attachment C:	AS/SVE System Operation Data From Previous Consultants
Attachment D:	ERI SOP-25 "Hydrocarbons Removed from a Vadose Well"

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<.....feet.....>			<.....ug/L.....>							
MW1	09/12/94	NLPH	7.11	10.24	---	1,600a	---	200	1.9	210	6.6	---
(17.35)	10/01/94	NLPH	7.44	9.91	---	1,400a	---	200	<0.5	160	6.6	---
	01/13/95	NLPH	5.13	12.22	---	2,100a	---	410b	17	280b	89	---
	04/27/95	NLPH	6.57	10.78	---	4,700	---	460	41	340	270	---
	08/03/95	NLPH	7.46	9.89	---	1,900	30	140	<5.0	160	9.9	---
	10/17/95	NLPH	7.67	9.68	---	280	5.5	6.2	<0.5	13	0.75	---
	01/24/96	NLPH	6.52	10.83	---	740	440	21	1.4	38	3.1	---
	04/24/96	NLPH	5.95	11.40	---	7,800	250	200	110	1,000	740	---
	07/26/96	NLPH	7.60	9.75	---	620	23	8.0	0.99	26	1.0	---
	10/30/96	NLPH	8.06	9.29	---	700	33	14	2.9	85	3.5	---
	01/31/97	NLPH	5.12	12.23	---	7,600	<200	420	33	1,400	480	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	NLPH	7.54	9.81	---	580	12	10	<0.5	<0.5	<0.5	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	4.48	12.87	---	820	<2.5c	110	2.8	170	14	---
	04/14/98	---	4.69	12.66	---	---	---	---	---	---	---	---
	07/30/98	NLPH	6.19	11.16	---	2,700	41	210	<5.0	550	<5.0	---
	10/19/98	NLPH	6.72	10.63	---	---	---	---	---	---	---	---
	01/13/99	NLPH	6.52	10.83	---	491	9.78	8.0	<0.5	<0.5	<0.5	---
	04/28/99	---	5.37	11.98	---	---	---	---	---	---	---	---
	07/09/99	NLPH	6.39	10.96	---	1,030	10.6	114	8.07	184	0.644	---
	10/25/99	NLPH	6.68	10.67	---	---	---	---	---	---	---	---
	01/21/00	NLPH	6.20	11.15	---	<50	5.1	<1.0	<1.0	<1.0	<1.0	---
	04/14/00	NLPH	5.18	12.17	---	---	---	---	---	---	---	---
	07/05/00	NLPH	5.93	11.42	---	88	200	4.3	<0.5	0.61	<0.5	---
	10/03/00	NLPH	6.51	10.84	---	<50	240	0.72	<0.5	<0.5	<0.5	---
	01/02/01	NLPH	6.17	11.18	---	<50	68	0.75	<0.5	<0.5	<0.5	---
	04/02/01	**NLPH**	**7.42**	**9.93**	**—**	**140**	**4.3**	**<0.5**	**<0.5**	**4.1**	**1.1**	**---**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<....feet....>			<....ug/L....>							
MW2	09/12/94	NLPH	6.71	9.96	---	31,000a	---	4,400	120	1,700	2,100	---
(16.67)	10/01/94	NLPH	7.22	9.45	---	45,000a	---	4,500	250	1,800	2,400	---
	01/13/95	NLPH	4.46	12.21	---	---	---	---	---	---	---	---
	04/27/95	NLPH	6.92	9.75	---	44,000	---	7,000	840	2,400	3,400	---
	08/03/95	NLPH	6.96	9.71	---	30,000	37,000	4,600	170	1,600	1,100	---
	10/17/95	NLPH	7.83	8.84	---	45,000	14,000	5,400	190	2,000	1,500	---
	01/24/96	NLPH	6.45	10.22	---	30,000	4,100	5,000	810	2,200	2,200	---
	04/24/96	NLPH	6.00	10.67	---	34,000	22,000	8,700	410	2,200	2,000	---
	07/26/96	NLPH	7.14	9.53	---	40,000	18,000	10,000	<200	1,800	760	---
	10/30/96	NLPH	6.95	9.72	---	43,000	18,000	9,100	<250	2,400	730	---
	01/31/97	NLPH	5.07	11.60	---	28,000	8,000c	2,400	630	1,500	3,300	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	NLPH	7.34	9.33	---	18,000	2,600	2,900	82	1,500	530	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	4.46	12.21	---	29,000	28,000c	5,600	410	1,500	720	---
	04/14/98	---	4.48	12.19	---	---	---	---	---	---	---	---
	07/30/98	NLPH	6.01	10.66	---	24,000	6,300	7,500	<200	1,300	280	---
	10/19/98	NLPH	6.35	10.32	---	---	---	---	---	---	---	---
	01/13/99	NLPH	6.54	10.13	---	18,400	2,200	4,750	211	1,760	45.3	---
	04/28/99	---	5.54	11.13	---	---	---	---	---	---	---	---
	07/09/99	NLPH	6.45	10.22	---	14,100	3,410	4,270	80.1	1,300	339	---
	10/25/99	---	---	---	---	---	---	---	---	---	---	---
	01/21/00	---	---	---	---	---	---	---	---	---	---	---
	02/11/00	NLPH	---	---	---	<50	15	<1.0	<1.0	<1.0	<1.0	---
	04/14/00	NLPH	4.69	11.98	---	---	---	---	---	---	---	---
	07/05/00	NLPH	5.44	11.23	---	150	86	15	<0.5	6.2	2.8	---
	10/03/00	NLPH	6.31	10.36	---	200	2,500	35	0.51	5.1	12	---
	01/02/01	---	---	---	---	---	---	---	---	---	---	---
	04/02/01	**NLPH**	**5.00**	**11.67**	**---**	**<50**	**680**	**3.6**	**<0.5**	**<0.5**	**<0.5**	**---**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<	feet	>	<			ug/L				>
MW3	09/12/94	NLPH	6.58	10.53	---	3,100a	---	580	8	340	100	---
(17.11)	10/01/94	NLPH	6.85	10.26	---	3,800a	---	640	11	230	130	---
	01/13/95	NLPH	5.27	11.84	---	3,800a	---	690	24	210	130	---
	04/27/95	NLPH	6.05	11.06	---	7,500	---	940	35	810	530	---
	08/03/95	NLPH	6.71	10.40	---	1,900	24	380	<5.0	140	45	---
	10/17/95	NLPH	7.46	9.65	---	6,100	<5.0	950	29	230	190	---
	01/24/96	NLPH	5.83	11.28	---	3,000	<100	730	15	190	110	---
	04/24/96	NLPH	5.38	11.73	---	11,000	<100	1,200	130	1,000	1,400	---
	07/26/96	NLPH	6.80	10.31	---	2,500	250	800	16	24	56	---
	10/30/96	NLPH	7.20	9.91	---	5,200	2,900	1,300	28	170	180	---
	01/31/97	NLPH	4.31	12.80	---	---	---	---	---	---	---	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	4.03	13.08	---	---	---	---	---	---	---	---
	04/14/98	NLPH	3.80	13.31	---	---	---	---	---	---	---	---
	07/30/98	NLPH	5.84	11.27	---	---	---	---	---	---	---	---
	10/19/98	NLPH	6.25	10.86	---	---	---	---	---	---	---	---
	01/13/99	NLPH	6.14	10.97	---	---	---	---	---	---	---	---
	04/28/99	---	4.95	12.16	---	---	---	---	---	---	---	---
	07/09/99	---	---	---	---	---	---	---	---	---	---	---
	10/25/99	---	---	---	---	---	---	---	---	---	---	---
	01/21/00	---	---	---	---	---	---	---	---	---	---	---
	04/14/00	---	---	---	---	---	---	---	---	---	---	---
	07/05/00	---	---	---	---	---	---	---	---	---	---	---
	10/03/00	---	---	---	---	---	---	---	---	---	---	---
	01/02/01	NLPH	5.78	11.33	560d	2,700	3,100	1300	8.8	11	21.3	---
	04/02/01	**NLPH**	**4.71**	**12.40**	**620**	**3,700**	**1,400**	**1,400**	**11**	**36**	**21**	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<.....feet.....>			<.....ug/L.....>							
MW4	09/12/94	NLPH	6.80	10.54	---	5,200a	---	900	57	310	490	---
(17.34)	10/01/94	NLPH	7.09	10.25	---	9,100a	---	1,200	66	360	380	---
	01/13/95	NLPH	4.66	12.68	---	25,000a	---	1,300	200	550	1,000	---
	04/27/95	NLPH	5.54	11.80	---	5,900	---	650	130	350	590	---
	08/03/95	NLPH	6.92	10.42	---	4,200	5,700	1,000	<12	170	140	---
	10/17/95	NLPH	7.50	9.84	---	6,900	1,700	1,300	30	360	380	---
	01/24/96	NLPH	5.81	11.53	---	6,300	830	1,900	46	290	330	---
	04/24/96	NLPH	5.44	11.90	---	5,000	1,600	1,800	<20	190	130	---
	07/26/96	NLPH	7.03	10.31	---	9,100	1,200	1,700	<25	340	280	---
	10/30/96	NLPH	7.57	9.77	---	5,300	1,500	1,100	35	420	300	---
	01/31/97	NLPH	4.22	13.12	---	6,500	40,000	1,200	28	490	130	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	NLPH	7.56	9.78	---	10,000	11,000	1,100	120	470	720	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.70	13.64	---	1,700	4,900c	450	6.8	220	73	---
	04/14/98	---	3.81	13.53	---	---	---	---	---	---	---	---
	07/30/98	NLPH	5.96	11.38	---	2,900	2,800	680	<10	220	56	---
	10/19/98	NLPH	6.51	10.83	---	---	---	---	---	---	---	---
	01/13/99	NLPH	6.24	11.10	---	2,140	1,800	146	<10	60.9	16.2	---
	04/28/99	---	4.80	12.54	---	---	---	---	---	---	---	---
	07/09/99	NLPH	6.04	11.30	---	1,300	1,310	322	<2.5	76.1	<2.5	---
	10/25/99	NLPH	6.51	10.83	---	---	---	---	---	---	---	---
	01/21/00	NLPH	5.75	11.59	---	2,200	1,000	410	3.70	40	14.4	---
	04/14/00	NLPH	4.39	12.95	---	---	---	---	---	---	---	---
	07/05/00	NLPH	5.48	11.86	---	1,600	260	400	3.9	100	84	---
	10/03/00	NLPH	6.22	11.12	---	1,600	190	280	2	64	34.10	---
	01/02/01	NLPH	5.93	11.41	---	840	1,000	210	2.5	45	28.10	---
	04/02/01	**NLPH**	**4.89**	**12.45**	**---**	**1,900**	**320**	**340**	**8.5**	**110**	**116**	**---**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<.....feet.....>			<.....ug/L.....>							
MW5	09/12/94	NLPH	7.12	9.59	---	10,000a	---	2,300	17	320	230	---
(16.71)	10/01/94	Sheen	7.06	9.65	---	11,000a	---	2,300	19	220	200	---
	01/13/95	thickness of	4.85	11.86	---	---	---	---	---	---	---	---
	04/27/95	NLPH	6.51	10.20	---	14,000	---	2,200	72	540	350	---
	08/03/95	NLPH	7.24	9.47	---	<10,000	39,000	2,100	<100	210	<100	---
	10/17/95	NLPH	7.80	8.91	---	13,000	38,000	1,800	14	240	170	---
	01/24/96	NLPH	6.66	10.05	---	10,000	20,000	2,400	79	340	190	---
	04/24/96	NLPH	5.80	10.91	---	13,000	33,000	3,700	120	520	170	---
	07/26/96	NLPH	7.67	9.04	---	15,000	140,000	3,400	53	280	76	---
	10/30/96	NLPH	7.77	8.94	---	10,000	110,000a	2,600	76	260	150	---
	01/31/97	NLPH	4.90	11.81	---	10,000	34,000c	2,400	66	430	140	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	NLPH	7.65	9.06	---	9,800	36,000/52,000c	1,400	120	190	120	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.95	12.76	---	6,500	15,000c	1,500	34	73	57	---
	04/14/98	---	4.30	12.41	---	---	---	---	---	---	---	---
	07/30/98	NLPH	5.86	10.85	---	8,300	4,300	1,700	26	110	66	---
	10/19/98	NLPH	6.20	10.51	---	---	---	---	---	---	---	---
	01/13/99	NLPH	6.37	10.34	---	4,780	3,650	1,240	11.1	<10	<10	---
	04/28/99	---	5.25	11.46	---	---	---	---	---	---	---	---
	07/09/99	NLPH	6.08	10.63	---	4,360	2,360	1,780	18.6	45	<5.0	---
	10/25/99	NLPH	6.46	10.25	---	---	---	---	---	---	---	---
	01/21/00	NLPH	5.79	10.92	---	2,600	3,100	720	4.7	25	11.3	---
	04/14/00	NLPH	4.57	12.14	---	---	---	---	---	---	---	---
	07/05/00	NLPH	5.37	11.34	---	5,100	380	1,800	14	52	34	---
	10/03/00	NLPH	5.93	10.78	---	5,800	630	2,000	8.9	59	21	---
	01/02/01	NLPH	5.68	11.03	---	4,800	1,100	1,600	9.6	38	15	---
	04/02/01	**NLPH**	**4.87**	**11.84**	---	**6,800**	**1,500**	**2,000**	**40**	**150**	**49**	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<	feet	>	<			ug/L				>
MW6	09/12/94	NLPH	6.88	10.68	---	1,500a	---	150	4.4	170	85	---
(17.56)	10/01/94	NLPH	7.15	10.41	---	87a	---	120	<0.5	99	38	---
	01/13/95	NLPH	4.80	12.76	---	9,900a	---	710	220	780	1,100	---
	04/27/95	NLPH	6.14	11.42	---	3,900	---	340	40	460	320	---
	08/03/95	NLPH	6.83	10.73	---	1,100	65	89	<2.5	110	63	---
	10/17/95	NLPH	7.66	9.90	---	8,500	<5.0	410	74	850	110	---
	01/24/96	NLPH	5.86	11.70	---	31,000	<5.0	560	1,500	2,200	7,500	---
	04/24/96	NLPH	5.39	12.17	---	15,000	280	460	570	1,400	3,300	---
	07/26/96	NLPH	6.97	10.59	---	27,000	1,300	270	660	1,600	5,500	---
	10/30/96	NLPH	7.45	10.11	---	28,000	900	490	440	1,800	6,200	---
	01/31/97	NLPH	4.30	13.26	---	7,000	770	190	1,000	380	1,400	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	NLPH	7.57	9.99	---	6,800	1,100	200	<50	300	860	---
	10/08/97	NLPH	7.48	10.08	---	51,000	580	870	7,300	2,600	12,000	700c
	01/28/98	NLPH	3.74	13.82	---	15,000	2,400c	650	2,300	900	2,700	---
	04/14/98	NLPH	3.92	13.64	---	25,000	2,100c	850	3,300	1,200	4,300	---
	07/30/98	NLPH	6.09	11.47	---	5,900	910	270	65	500	630	---
	10/19/98	NLPH	6.56	11.00	---	---	---	---	---	---	---	---
	01/13/99	NLPH	6.35	11.21	---	3,150	422	204	107	297	304	---
	04/28/99	NLPH	4.89	12.67	---	15,300	436c	1,270	980	1,100	3,320	436c
	07/09/99	NLPH	6.07	11.49	---	1,140	439	121	9.95	160	4.69	---
	10/25/99	NLPH	6.11	11.45	---	2,200	3,400	590	<10	22	12.1	---
	01/21/00	NLPH	5.86	11.70	---	1,300	1,000	95	15	94	74	---
	04/14/00	NLPH	4.29	13.27	---	13,000	420	440	630	840	3,000	---
	07/05/00	NLPH	5.39	12.17	---	5,800	830	1,000	13	550	798	---
	10/03/00	NLPH	6.14	11.42	---	490	3,800	61	<0.5	74	12	---
	01/02/01	---	---	---	---	---	---	---	---	---	---	---
	04/02/01	**NLPH**	**4.70**	**12.86**	**400**	**16,000**	**450**	**370**	**690**	**870**	**3,200**	---

from Xtra Oil
Detection of TPH d
increasing TPHg

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<....feet....>			<....ug/L....>							
MW7	09/12/94	NLPH	6.43	10.69	---	6,000a	---	490	50	280	70	---
(17.12)	10/01/94	NLPH	6.71	10.41	---	8,900a	---	940	670	310	160	---
	01/13/95	NLPH	4.29	12.83	---	20,000a	---	590	780	970	4,200	---
	04/27/95	NLPH	5.00	12.12	---	8,800	---	410	32	410	230	---
	08/03/95	NLPH	6.53	10.59	---	4,900	17,000	390	<50	290	<50	---
	10/17/95	NLPH	7.23	9.89	---	6,700	17,000	530	26	240	25	---
	01/24/96	NLPH	5.26	11.86	---	9,300	60,000	2,000	390	350	230	---
	04/24/96	NLPH	5.06	12.06	---	9,000	360,000	2,400	850	150	130	---
	07/26/96	NLPH	6.62	10.50	---	4,800	86,000	530	25	60	46	---
	10/30/96	NLPH	7.09	10.03	---	3,400	28,000	180	9.8	58	38	---
	01/31/97	NLPH	3.65	13.47	---	3,800	45,000	300	18	48	37	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	NLPH	7.44	9.68	---	3,500	18,000	70	<25	<25	<25	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.06	14.06	---	100	250c	1.0	<0.5	<0.5	0.67	---
	04/14/98	---	3.10	14.02	---	---	---	---	---	---	---	---
	07/30/98	NLPH	5.78	11.34	---	100	670	1.4	<0.5	<0.5	<0.5	---
	10/19/98	NLPH	6.25	10.87	---	---	---	---	---	---	---	---
	01/13/99	NLPH	5.98	11.14	---	273	530	<2.5	<2.5	<2.5	<2.5	---
	04/28/99	---	4.32	12.80	---	---	---	---	---	---	---	---
	07/09/99	NLPH	5.67	11.45	---	139	860	3.79	7.10	1.19	8.65	---
	10/25/99	NLPH	6.23	10.89	---	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---
	01/21/00	NLPH	5.41	11.71	---	410	500	10	2.5	<1.0	2.5	---
	04/14/00	NLPH	3.84	13.28	---	---	---	---	---	---	---	---
	07/05/00	NLPH	5.05	12.07	---	140	480	<0.5	<0.5	<0.5	0.56	---
	10/03/00	NLPH	5.88	11.24	---	370	1,900	<0.5	0.62	<0.5	3.20	---
	01/02/01	NLPH	5.52	11.60	---	120	1,500	2.2	<0.5	<0.5	<0.5	---
	04/02/01	**NLPH**	**4.26**	**12.86**	---	**120**	**1,500**	**0.91**	**<0.5**	**<0.5**	**<0.5**	**---**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<....feet....>			<....ug/L....>							
MW8	09/12/94	NLPH	6.42	9.91	---	<50a	---	<0.5	<0.5	<0.5	<0.5	---
(16.33)	10/01/94	NLPH	6.62	9.71	---	<50a	---	<0.5	<0.5	<0.5	<0.5	---
	01/13/95	NLPH	5.25	11.08	---	<50a	---	<0.5	<0.5	<0.5	<0.5	---
	04/27/95	NLPH	6.00	10.33	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
	08/03/95	NLPH	6.28	10.05	---	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
	10/17/95	NLPH	6.93	9.40	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	01/24/96	NLPH	5.71	10.62	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	04/24/96	NLPH	5.52	10.81	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	07/26/96	NLPH	6.27	10.06	---	<50	230	<0.5	<0.5	<0.5	<0.5	---
	10/30/96	NLPH	6.69	9.64	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	01/31/97	NLPH	5.18	11.15	---	---	---	---	---	---	---	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	5.11	11.22	---	---	---	---	---	---	---	---
	04/14/98	NLPH	5.02	11.31	---	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
	07/30/98	NLPH	5.84	10.49	---	<50	6.6	<0.5	<0.5	<0.5	<0.5	---
	10/19/98	NLPH	6.07	10.26	---	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
	01/13/99	NLPH	5.59	10.74	---	<50	<2.0	<0.5	<0.5	<0.5	<0.5	---
	04/28/99	NLPH	5.38	10.95	---	<50	<0.5c	<0.5	<0.5	<0.5	<0.5	ND
	07/09/99	NLPH	5.71	10.62	---	<50	3.01	<0.5	<0.5	<0.5	<0.5	---
	10/25/99	NLPH	6.15	10.18	---	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---
	01/21/00	NLPH	6.51	9.82	---	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---
	04/14/00	Brown	5.54	10.79	---	<50	<1	<1	<1	<1	<1	---
	07/05/00	NLPH	5.67	10.66	---	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	10/03/00	NLPH	6.02	10.31	---	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	01/02/01	NLPH	5.95	10.38	140d	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	04/02/01	---	---	---	---	---	---	---	---	---	---	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	< feet >			< ug/L >							
MW9	09/12/94	NLPH	6.84	8.78	---	<50a	---	<0.5	<0.5	<0.5	<0.5	---
(15.62)	10/01/94	NLPH	6.97	8.65	---	<50a	---	<0.5	<0.5	<0.5	<0.5	---
	01/13/95	NLPH	6.18	9.44	---	<50a	---	<0.5	<0.5	<0.5	<0.5	---
	04/27/95	NLPH	6.58	9.04	---	<50	---	<0.5	<0.5	<0.5	<0.5	---
	08/03/95	NLPH	6.72	8.90	---	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
	10/17/95	NLPH	7.09	8.53	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	01/24/96	NLPH	6.46	9.16	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	04/24/96	NLPH	6.43	9.19	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	07/26/96	NLPH	6.80	8.82	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	10/30/96	NLPH	6.94	8.68	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	01/31/97	NLPH	6.10	9.52	---	---	---	---	---	---	---	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	5.66	9.96	---	---	---	---	---	---	---	---
	04/14/98	---	---	---	---	---	---	---	---	---	---	---
	07/30/98	NLPH	6.17	9.45	---	---	---	---	---	---	---	---
	10/19/98	NLPH	6.40	9.22	---	---	---	---	---	---	---	---
	01/13/99	NLPH	6.28	9.34	---	---	---	---	---	---	---	---
	04/28/99	NLPH	5.87	9.75	---	<50	<0.5c	<0.5	<0.5	<0.5	<0.5	ND
	07/09/99	NLPH	6.24	9.38	---	<50	<2.0	<0.5	<0.5	<0.5	<0.5	---
	10/25/99	NLPH	6.67	8.95	---	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---
	01/21/00	NLPH	6.93	8.69	---	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---
	04/14/00	Turbid	6.05	9.57	---	<50	<1	<1	<1	<1	<1	<1
	07/05/00	NLPH	6.34	9.28	---	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	10/03/00	NLPH	6.52	9.10	---	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	01/02/01	NLPH	6.53	9.09	---	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	04/02/01	**NLPH**	**6.21**	**9.41**	**---**	**<50**	**<2**	**<0.5**	**<0.5**	**0.57**	**0.73**	**---**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<	feet	>	<			ug/L				>
MW10	09/12/94	NLPH	7.04	9.75	---	71a	---	<0.5	<0.5	1.6	<0.5	---
(16.79)	10/01/94	NLPH	7.30	9.49	---	330a	---	1.1	<0.5	2.8	0.73	---
	01/13/95	NLPH	6.04	10.75	---	90a	---	<0.5	<0.5	<0.5	<0.5	---
	04/27/95	NLPH	6.66	10.13	---	140	---	<0.5	<0.5	5.4	1.3	---
	08/03/95	NLPH	7.23	9.56	---	150	<2.5	<0.5	<0.5	<0.5	<0.5	---
	10/17/95	NLPH	7.93	8.86	---	<50	95	<0.5	<0.5	<0.5	<0.5	---
	01/24/96	NLPH	6.43	10.36	---	760	24	1.6	0.52	62	28	---
	04/24/96	NLPH	6.42	10.37	---	110	6.8	<0.5	<0.5	7.1	<0.5	---
	07/26/96	NLPH	7.47	9.32	---	140	<5.0	<0.5	<0.5	12	0.86	---
	10/30/96	NLPH	7.88	8.91	---	<50	5.6	<0.5	<0.5	<0.5	<0.5	---
	01/31/97	NLPH	5.88	10.91	---	<50	10	<0.5	<0.5	<0.5	<0.5	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	NLPH	7.32	9.47	---	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	12/12/97	Well destroyed.			---							
MW11	10/17/95	NLPH	7.72	10.32	---	34,000	890	3,800	150	950	4,500	---
(18.04)	01/24/96	NLPH	5.97	12.07	---	44,000	<500	3,800	1,200	2,100	9,800	---
	04/24/96	NLPH	5.84	12.20	---	34,000	720	2,900	1,400	1,700	8,300	---
	07/26/96	NLPH	6.98	11.06	---	39,000	800	4,600	4,200	950	9,500	---
	10/30/96	NLPH	7.54	10.50	---	53,000	990	4,200	3,600	2,100	9,600	---
	01/31/97	NLPH	5.00	13.04	---	23,000	310c	170	2,500	940	4,300	---
	04/10/97	NLPH	---	---	---	29,000	200	1,200	440	970	6,400	---
	07/10/97	NLPH	7.30	10.74	---	42,000	690	1,700	870	1,900	12,000	---
	10/08/97	NLPH	7.62	10.42	---	42,000	1,100	1,700	2,500	1,400	9,900	1,300c
	01/28/98	NLPH	4.77	13.27	---	35,000	6,800c	2,400	3,500	1,700	7,900	---
	04/14/98	NLPH	4.68	13.36	---	15,000	1,200c	1,700	250	500	2,000	---
	07/30/98	NLPH	6.33	11.71	---	24,000	1,700	1,600	560	1,000	4,300	---
	10/19/98	NLPH	6.65	11.39	---	29,000	1,700	1,200	2,500	920	4,900	---

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Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<	feet	>	<			ug/L				>
MW11 (cont)	01/13/99	NLPH	6.42	11.62	---	50,900	1,920	2,210	6,440	2,030	10,600	---
(18.04)	04/28/99	NLPH	5.30	12.74	---	59,400	2,390c	3,790	4,260	1,790	2,970	2,390c
	07/09/99	NLPH	6.22	11.82	---	51,500	4,630	5,890	5,340	2,370	12,700	---
	10/25/99	NLPH	6.77	11.27	---	51,000	1,700	3,900	5,800	2,300	12,300	---
	01/21/00	NLPH	6.47	11.57	---	56,000	1,100	2,300	4,600	2,100	11,600	---
	04/14/00	NLPH	5.09	12.95	---	42,000	2,100	3,000	2,600	1,600	8,000	---
	07/05/00	NLPH	5.93	12.11	---	32,000	3,900	3,000	2,700	1,300	6,200	---
	10/03/00	NLPH	6.57	11.47	---	46,000	4,300	2,900	3,600	1,600	7,900	---
	01/02/01	NLPH	6.46	11.58	1,600d	44,000	4,200	3,900	3,600	1,300	6,500	---
	04/02/01	**NLPH**	**5.44**	**12.60**	**2,000**	**39,000**	**3,100**	**2,600**	**3,600**	**1,500**	**7,500**	**---**
MW12	10/17/95	NLPH	6.38	9.92	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
(16.30)	01/24/96	NLPH	4.86	11.44	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	04/24/96	NLPH	4.46	11.84	---	<50	<5.0	<0.5	0.68	<0.5	0.72	---
	07/26/96	NLPH	5.90	10.40	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	10/30/96	NLPH	6.56	9.74	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	01/31/97	NLPH	4.57	11.73	---	<50	<5.0	<0.5	<0.5	<0.5	<0.5	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.90	12.40	---	---	---	---	---	---	---	---
	04/14/98	NLPH	3.67	12.63	---	---	---	---	---	---	---	---
	07/30/98	NLPH	5.00	11.30	---	---	---	---	---	---	---	---
	10/19/98	NLPH	---	---	---	---	---	---	---	---	---	---
	01/13/99	NLPH	5.19	11.11	---	---	---	---	---	---	---	---
	04/28/99	---	4.53	11.77	---	---	---	---	---	---	---	---
	Not monitored or sampled 07/09/99 through present.					---	---	---	---	---	---	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<	feet	>	<			ug/L				>
EW-1	09/12/94	NLPH	6.13	10.09	---	400a	---	40	<0.5	10	5.4	---
(16.22)	10/01/94	NLPH	7.63	8.59	---	3,400a	---	<0.5	4.4	30	11	---
	01/13/95	NLPH	11.46	4.76	---	680a	---	40	<0.5	12	16	---
	04/27/95	NLPH	15.47	0.75	---	---	---	---	---	---	---	---
	08/03/95	NLPH	13.85	2.37	---	<125	590	2.7	<1.2	<1.2	<1.2	---
	10/17/95	NLPH	8.05	8.17	---	3,600	400	220	<0.5	160	36	---
	01/24/96	NLPH	11.07	5.15	---	64	260	4.3	<0.5	1.3	0.53	---
	04/24/96	NLPH	6.20	10.02	---	740	3,000	130	2.3	35	2.1	---
	07/26/96	NLPH	13.93	2.29	---	<50	960	<0.5	<0.5	<0.5	<0.5	---
	10/30/96	NLPH	13.74	2.48	---	<50	5,300	0.52	<0.5	<0.5	<0.5	---
	01/31/97	NLPH	8.40	7.82	---	---	---	---	---	---	---	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.35	12.87	---	---	---	---	---	---	---	---
	04/14/98	NLPH	3.52	12.70	---	---	---	---	---	---	---	---
	07/30/98	NLPH	5.48	10.74	---	---	---	---	---	---	---	---
	10/19/98	NLPH	5.77	10.45	---	---	---	---	---	---	---	---
	01/13/99	NLPH	5.49	10.73	---	---	---	---	---	---	---	---
	04/28/99	NLPH	4.31	11.91	---	---	---	---	---	---	---	---
	Not monitored or sampled 07/09/99 through present.					---	---	---	---	---	---	---
EW-2	09/12/94	NLPH	6.09	9.96	---	8,800a	---	2,000	79	180	290	---
(16.05)	10/01/94	NLPH	7.32	8.73	---	9,500a	---	1,400	6.7	700	310	---
	01/13/95	NLPH	14.38	1.67	---	5,700a	---	930	270	21	280	---
	04/27/95	NLPH	15.23	0.82	---	---	---	---	---	---	---	---
	08/03/95	NLPH	7.19	8.86	---	830	1,600	170	27	36	64	---
	10/17/95	NLPH	18.97	-2.92	---	180	3,600	<0.5	<0.5	<0.5	5.1	---
	01/24/96	NLPH	20.32	-4.27	---	1,700	6,400	290	82	14	170	---
	04/24/96	NLPH	9.46	6.59	---	3,500	7,300	670	200	110	490	---
	07/26/96	NLPH	16.50	-0.45	---	1,400	14,000	250	56	10	220	---
	10/30/96	NLPH	20.30	-4.25	---	1,500	13,000	200	44	8.8	190	---
	01/31/97	NLPH	19.21	-3.16	---	---	---	---	---	---	---	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<.....feet.....>			<.....ug/L.....>							
EW-2 (cont)	07/10/97	---	---	---	---	---	---	---	---	---	---	---
(16.05)	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.35	12.70	---	---	---	---	---	---	---	---
	04/14/98	NLPH	3.45	12.60	---	---	---	---	---	---	---	---
	07/30/98	NLPH	11.50	4.55	---	---	---	---	---	---	---	---
	10/19/98	NLPH	5.67	10.38	---	---	---	---	---	---	---	---
	01/13/99	NLPH	9.57	6.48	---	---	---	---	---	---	---	---
	04/28/99	NLPH	10.15	5.90	---	---	---	---	---	---	---	---
	Not monitored or sampled 07/09/99 through present.					---	---	---	---	---	---	---
EW-3	09/12/94	NLPH	6.12	9.90	---	300a	---	44	5.9	12	31	---
(16.02)	10/01/94	NLPH	10.52	5.50	---	140a	---	12	0.42	1.7	3.7	---
	01/13/95	NLPH	18.13	-2.11	---	230a	---	4.6	7.6	1.2	6.6	---
	04/27/95	NLPH	23.07	-7.05	---	---	---	---	---	---	---	---
	08/03/95	NLPH	22.90	-6.88	---	<200	1,400	<2.0	<2.0	<2.0	<2.0	---
	10/17/95	NLPH	22.87	-6.85	---	74	2,400	4.4	<0.5	<0.5	<0.5	---
	01/24/96	NLPH	20.97	-4.95	---	120	2,300	16	<0.5	<0.5	<0.5	---
	04/24/96	NLPH	18.10	-2.08	---	180	3,800	34	3.7	8.9	11	---
	07/26/96	NLPH	13.14	2.88	---	180	2,000	45	0.7	<0.5	2.1	---
	10/30/96	NLPH	9.24	6.78	---	660	2,800	60	8.2	<0.5	100	---
	01/31/97	NLPH	11.10	4.92	---	---	---	---	---	---	---	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.42	12.60	---	---	---	---	---	---	---	---
	04/14/98	NLPH	3.50	12.52	---	---	---	---	---	---	---	---
	07/30/98	NLPH	18.57	-2.55	---	---	---	---	---	---	---	---
EW-3(cont.)	10/19/98	NLPH	5.65	10.37	---	---	---	---	---	---	---	---
(16.02)	01/13/99	NLPH	13.85	2.17	---	---	---	---	---	---	---	---
	04/28/99	NLPH	4.52	11.50	---	---	---	---	---	---	---	---
	Not monitored or sampled 07/09/99 through present.					---	---	---	---	---	---	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<	feet	>	<			ug/L				>
EW-4	09/12/94	NLPH	5.69	10.92	---	4,000a	---	1,700	12	210	77	---
(16.61)	10/01/94	NLPH	7.90	8.71	---	460a	---	100	1.5	15	11	---
	01/13/95	NLPH	11.36	5.25	---	520a	---	89	8.8	1.6	82	---
	04/27/95	NLPH	16.30	0.31	---	---	---	---	---	---	---	---
	08/03/95	NLPH	6.45	10.16	---	42,000	17,000	3,100	1,100	2,000	8,200	---
	10/17/95	NLPH	15.89	0.72	---	92	2,500	6.3	<0.5	<0.5	<0.5	---
	01/24/96	NLPH	6.03	10.58	---	220	9,200	79	2.5	2.9	10	---
	04/24/96	NLPH	4.97	11.64	---	4,600	860	49	36	69	1,100	---
	07/26/96	NLPH	6.54	10.07	---	2,900	15,000	610	6.2	200	300	---
	10/30/96	NLPH	6.53	10.08	---	550	3,400	68	11	<2.5	71	---
	01/31/97	NLPH	3.98	12.63	---	---	---	---	---	---	---	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.22	13.39	---	---	---	---	---	---	---	---
	04/14/98	NLPH	3.20	13.41	---	---	---	---	---	---	---	---
	07/30/98	NLPH	4.89	11.72	---	---	---	---	---	---	---	---
	10/19/98	NLPH	5.16	11.45	---	---	---	---	---	---	---	---
	01/13/99	NLPH	5.57	11.04	---	---	---	---	---	---	---	---
	04/28/99	NLPH	4.27	12.34	---	---	---	---	---	---	---	---
	Not monitored or sampled 07/09/99 through present.					---	---	---	---	---	---	---
EW-5	09/12/94	NLPH	6.30	10.21	---	180a	---	26	1.7	11	12	---
(16.51)	10/01/94	NLPH	11.83	4.68	---	130a	---	16	0.92	5.7	8.5	---
	01/13/95	NLPH	12.54	3.97	---	130a	---	0.6	0.8	0.6	2.9	---
	04/27/95	NLPH	13.11	3.40	---	---	---	---	---	---	---	---
	08/03/95	NLPH	11.99	4.52	---	70	210	<0.5	<0.5	<0.5	<0.5	---
	10/17/95	NLPH	13.43	3.08	---	78	50	1.5	<0.5	<0.5	3.0	---
	01/24/96	NLPH	9.72	6.79	---	2,500	350	280	66	22	370	---
	04/24/96	NLPH	8.13	8.38	---	6,400	400	690	240	380	1,300	---
	07/26/96	NLPH	10.00	6.51	---	850	84	82	2.5	2.4	100	---
	10/30/96	NLPH	9.82	6.69	---	1,200	68	110	5.1	2.2	120	---
	01/31/97	NLPH	9.00	7.51	---	---	---	---	---	---	---	---
	04/10/97	---	---	---	---	---	---	---	---	---	---	---

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
(TOC)	Date	<.....feet.....>			<.....ug/L.....>							
EW-5(cont.)	07/10/97	---	---	---	---	---	---	---	---	---	---	---
(16.51)	10/08/97	---	---	---	---	---	---	---	---	---	---	---
	01/28/98	NLPH	3.54	12.97	---	---	---	---	---	---	---	---
	04/14/98	NLPH	3.65	12.86	---	---	---	---	---	---	---	---
	07/30/98	NLPH	7.63	8.88	---	---	---	---	---	---	---	---
	10/19/98	NLPH	5.75	10.76	---	---	---	---	---	---	---	---
	01/13/99	NLPH	7.03	9.48	---	---	---	---	---	---	---	---
	04/28/99	NLPH	8.80	7.71	---	---	---	---	---	---	---	---
	Not monitored or sampled 07/09/99 through present.					---	---	---	---	---	---	---

Notes:

SUBJ	=	Results of subjective evaluation, liquid-phase hydrocarbon thickness in feet.
TOC	=	Elevation of top of well casing; in feet above mean sea level.
DTW	=	Depth to water.
Elev.	=	Elevation of groundwater in feet above mean sea level.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 5030/8015 (modified).
TPHd	=	Total petroleum hydrocarbons as diesel 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.
Oxygenated Compounds	=	Oxygenates compounds analyzed using EPA Method 8260.
NLPH	=	No liquid-phase hydrocarbons.
---	=	Not Sampled.
ug/L	=	Micrograms per liter.
<	=	Less than the stated laboratory method detection limit.
a	=	Total volatile hydrocarbons by DHS /LUFT Manual Method.
b	=	Results obtained from a 1:10 dilution analyzed on January 17, 1995.
c	=	Methyl tertiary butyl ether by EPA Method 8260 (GC/MS).
d	=	Diesel-range hydrocarbons reportedly detected in bailer blank; result is suspect

Data prior to second Quarter 2000 provided by Delta Environmental Consultants, Inc.

TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

		FIELD MEASUREMENTS							Analytical Laboratory Results		TPHg Removal		Benzene Removal		Benzene
Date	Sample ID	Hour Meter	Hours of Operation	Temp F	Vacuum in H_2O	Flow lfm	Flow cfm	PID ppmv	TPHg mg/m^3	Benzene mg/m^3	Per Period Pounds	Cumulative Pounds	Per Period Pounds	Cumulative Pounds	Emission Rate lbs/day
02/16/98	System startup	---	0	---	---		---	---							
03/24/00	System shutdown pending evaluation														
		12,001									< 60.8	< 60.8		---	---
04/01/00	Environmental Resolutions Inc., assumed operation of the system.														
06/28/00	System upgrades completed, system restarted.														
	A-INF	12,008	7	---	26	---	---	770.0							
	A-INT							18.1							
	A-EFF							13.3							
	System shutdown for carbon changeout, 2 x 500-pounds.														
07/11/00	System down upon arrival, restart.														
	A-INF	12,011	3	86	8	4,000	85	207.0	51	< 1.0	< 0.16	< 61.0	< 0.00	< 0.0	
	A-INT							9.1	< 10	< 1.0					
	A-EFF							0.0	< 10	< 1.0					< 0.01
07/20/00	System running upon arrival (VES only). System running on departure.														
	A-INF	12,226	215	78	9	4,500	97	42.3							
	A-INT							2.4							
	A-EFF							0.0							
07/31/00	System down on departure for carbon changeout (2x500 lb).														
	A-INF	12,493	267	87	9	4,500	95	266.0							
	A-INT							73.0							
	A-EFF							41.2							
08/10/00	System down upon arrival for carbon changeout. System running on departure.														
	A-INF	12,733	0	80	30	800	17	53.5	43	< 1	< 6.22	< 67.2	< 0.13	< 0.14	
	A-INT							0.0	< 10	< 1					
	A-EFF							0.0	< 10	< 1					< 0.002
08/16/00	A-INF	12,874	141	84	31.5	250	5	164.1							
	A-INT							0.0							
	A-EFF							0.0							
08/24/00	System down on departure for carbon changeout.														
	A-INF	13,065	191	76	20	2,400	52	294.0							
	A-INT							23.7							
	A-EFF							2.4							
09/12/00	System down upon arrival for carbon changeout. System running on departure.														
	A-INF	13,070	5	74	20	2,600	56	247.5	190	2.5	< 4.79	< 72.0	< 0.07	< 0.21	
	A-INT							0.0	< 10	< 1.0					
	A-EFF							0.0	< 10	< 1.0					< 0.01
09/26/00	A-INF	13,406	336	80	22	2,450	52	448.7							
	A-INT							10.7							
	A-EFF							0.0							

TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

	FIELD MEASUREMENTS								Analytical Laboratory Results		TPHg Removal		Benzene Removal		Benzene
Date	Sample	Hour Meter	Hours of	Temp	Vacuum	Flow		PID	TPHg	Benzene	Per Period	Cumulative	Per Period	Cumulative	Emission Rate
	ID		Operation	F	in H_2O	lfm	cfm	ppmv	mg/m^3	mg/m^3	Pounds	Pounds	Pounds	Pounds	lbs/day
10/12/00	System running on arrival and down upon departure for carbon c/o. Samples taken														
	A-INF	13,786	380	67	24	2,400	53	96.4	55	< 1.0	< 17.64	< 89.6	< 0.25	< 0.46	
	A-INT							72.3	21	< 1.0					
	A-EFF							9.0	< 10	< 1.0					< 0.005
10/30/00	System down upon arrival for carbon changeout. System running on departure.														
	A-INF	13,788	2	56	24	2,450	55	10,024	1,700	15	< 0.35	< 90.0	< 0.003	< 0.46	
	A-INT							59.1	< 10	< 1.0					
	A-EFF							0.0	< 10	< 1.0					< 0.005
11/08/00	A-INF	14,008	220	60	25	2,300	51	102.6	29	< 1.0	< 37.69	< 127.6	< 0.35	< 0.81	
	A-INT							41.8	< 10	< 1.0					
	A-EFF							Stet	< 10	< 1.0					< 0.005
11/21/00	System running upon arrival. System down upon departure for carbon changeout.														
	A-INF	14,314	306	68	25	2,300	50	322.0							
	A-INT							32.3							
	A-EFF							42.9							
12/06/00	System down upon arrival for carbon changeout. System down upon departure for carbon changeout														
12/11/00	System down on arrival due to carbon changeout. Running on departure.														
	A-INF	14,316	2	52	24	2,400	54	957	240	2.1	< 8.04	< 135.7	< 0.09	< 0.90	
	A-INT							1.2	< 10	< 1.0					
	A-EFF							3.1	< 10	< 1.0					< 0.005
12/27/00	A-INF	14,697	381	56	26	2,600	58	192.1							
	A-INT							4.8							
	A-EFF							0.0							
01/09/01	A-INF	15,012	315	56	25	2,400	54	82.4	32	< 1.0	< 19.60	< 155.3	< 0.22	< 1.12	
	A-INT							23.2	< 10	< 1.0					
	A-EFF							0.0	< 10	< 1.0					< 0.005
01/23/01	System down on departure for carbon changeout.														
	A-INF	15,353	341	60	26	2,300	51	485.0							
	A-INT							35.2							
	A-EFF							20.7							
01/31/01	A-INF	15,355	2	45	33	1,500	34	10000							
	A-INT							0							
	A-EFF							0							
02/13/01	A-INF	15,669	314	56	12	4,000	90	37.8	31	< 1.0	< 4.43	< 159.7	< 4.20	< 5.32	
	A-INT							29.5	< 10	< 1.0					
	A-EFF							0	< 10	< 1.0					< 0.008
02/27/01	System down upon departure for C/O.														
	A-INF	15,999	330	70	8	4,000	87	316							
	A-INT							37.5							
	A-EFF							73.6							
03/13/01	System down upon arrival for C/O and running upon departure. Monthly samples taken.														
	A-INF	16,002	3	65	9	4,000	88	5833	1300	6.1	< 73.16	< 232.9	< 0.39	< 5.71	
	A-INT							190.4	16	< 1.0					
	A-EFF							0	11	< 1.0					< 0.008
03/27/01	System running on arrival and departure.														
	A-INF	16,336	334	62	10	4,000	89	182.6							
	A-INT							16.8							
	A-EFF							0							

TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

		FIELD MEASUREMENTS							Analytical Laboratory Results		TPHg Removal		Benzene Removal		Benzene
Date	Sample ID	Hour Meter	Hours of Operation	Temp F	Vacuum in H_2O	Flow lfm	Flow cfm	PID ppmv	TPHg mg/m^3	Benzene mg/m^3	Per Period Pounds	Cumulative Pounds	Per Period Pounds	Cumulative Pounds	Emission Rate lbs/day
04/12/01	System running on arrival and departure.														
	A-INF	16,725	389	72	8	4,000	87	4.8							
	A-INT							2.6							
	A-EFF							0							
04/25/01	System running on arrival and departure.														
	A-INF	17,034	309	80	9	4,000	86	18.6	< 10	< 1.0	< 220.60	< 453.5	< 1.19	< 6.90	
	A-INT							9.5	< 10	< 1.0					
	A-EFF							0	26	< 1.0					< 0.008
05/09/01	System running on arrival and departure.														
	A-INF	17,371	337	86	10	4,000	85	11.3	< 10	< 1.0	< 1.07	< 454.5	< 1.57	< 8.47	
	A-INT							3.6	< 10	< 1.0					
	A-EFF							5.9	< 10	< 1.0					< 0.008
05/24/01	System running on arrival and departure.														
	A-INF	17,734	363	86	20	3,050	65	6.2							
	A-INT							1.6							
	A-EFF							3.1							
06/04/01	System running on arrival and departure.														
	A-INF	17,992	258	80	40	500	11	496	280	< 1.0	< 17.95	< 472.5	< 0.11	< 8.58	
	A-INT							19.7	< 10	< 1.0					
	A-EFF							3.2	< 10	< 1.0					< 0.001

Notes: Data prior to April 1, 2000 provided by Delta Environmental Consultants, Inc.

A-INF	=	Influent vapor sample collected prior to biofilters.
A-INT1	=	Vapor sample collected after biofilters.
A-INT2	=	Vapor sample collected after 1st carbon vessel.
A-INT3	=	Vapor sample collected after 2nd carbon vessel.
A-EFF	=	Vapor sample collected from effluent sample port.
cfm	=	Cubic feet per minute.
ppmv	=	Parts per million by volume
mg/M^3	=	Milligrams per cubic meter.
---	=	Not sampled/not measured.

Removal rates are calculated using ERI SOP-25 "Hydrocarbons Removed from A Vadose Well".

TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Date	Total Flow gal	Average Flowrate gpm	Sample ID	Laboratory Analytical Results TPHg ug/L	B ug/L	T ug/L	E ug/L	X ug/L	TPHg Removal Per Period lbs	TPHg Removal Cumulative lbs	Benzene Removal Per Period lbs	Benzene Removal Cumulative lbs
10/10/94	1,331,420		W-INF	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
12/02/94	1,392,010	0.8	W-INF	65	1.9	0.9	<0.5	2.4	0.03	0.0	0.0006	0.00
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
01/13/95	1,415,980	0.4	W-INF	1,000	< 0.5	<0.5	<0.5	<0.5	0.11	0.1	0.0002	0.00
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
02/23/95	1,494,030	1.3	W-INF	57	< 0.5	<0.5	<0.5	2.7	0.34	0.5	0.0003	0.00
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
03/14/95	---		W-INF	< 50	< 0.5	<0.5	<0.5	<0.5	---	---	---	---
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
04/14/95	1,513,240	0.3	W-INF	< 50	< 0.5	<0.5	<0.5	<0.5	0.01	0.5	0.0001	0.00
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
05/18/95	1,714,850	4.1	W-INF	NS	---	---	---	---	---	---	---	---
06/30/95	1,847,330	2.1	W-INF	1,700	480	23	66	180	2.44	2.9	0.6685	0.67
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
07/12/95	1,908,730	3.6	W-INF	290	68	<2.0	2.4	5.6	0.51	3.4	0.1128	0.78
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				

TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Date	Total Flow gal	Average Flowrate gpm	Sample ID	Laboratory Analytical Results TPHg	B	T	E	X (ug/L)	TPHg Removal Per Period (lbs)	TPHg Removal Cumulative (lbs)	Benzene Removal Per Period (lbs)	Benzene Removal Cumulative (lbs)
08/09/95	2,027,830	3.0	W-INF	6,600	1,700	260	370	550	3.42	6.9	0.8768	1.66
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
09/06/95	2,158,260	3.2	W-INF	120	17	0.84	1.0	3.0	3.65	10.5	0.9325	2.59
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
10/11/95	2,215,310	1.1	W-INF	160	22	0.97	1.2	4.0	0.07	10.6	0.0093	2.60
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
11/16/95	2,384,880	3.3	W-INF	120	4.9	<0.5	<0.5	5.9	0.20	10.8	0.0190	2.62
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
12/14/95	2,453,200	1.7	W-INF	450	46	16	4.6	65	0.16	10.9	0.0145	2.63
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
01/05/96	2,516,900	2.0	W-INF	240	26	2.4	1.2	20	0.18	11.1	0.0191	2.65
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
02/14/96	2,680,160	2.8	W-INF	470	43	5.5	<0.5	55	0.48	11.6	0.0469	2.70
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
03/12/96	2,767,820	2.3	W-INF	620	60	9.8	3.9	70	0.40	12.0	0.0376	2.74
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
04/16/96	2,927,390	3.2	W-INF	790	120	27	8.8	120	0.94	12.9	0.1196	2.86
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				

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1725 Park Street
Alameda, California

Date	Total Flow gal	Average Flowrate gpm	Laboratory Analytical Results							TPHg Removal		Benzene Removal	
			Sample ID		TPHg		B	T	E	X	Per Period	Cumulative	Per Period	Cumulative
				<	ug/L	<	ug/L	ug/L	ug/L	ug/L	< lbs	lbs >	< lbs	lbs >
05/07/96	2,971,100	1.4	W-INF		430		66	2.7	5	32	0.22	13.2	0.0339	2.89
			W-INT	<	50	<	0.5	<0.5	<0.5	<0.5				
			W-EFF	<	50	<	0.5	<0.5	<0.5	<0.5				
06/11/96	3,109,730	2.8	W-INF		2,900		470	120	19	410	1.92	15.1	0.3094	3.20
			W-INT	<	50	<	0.5	<0.5	<0.5	<0.5				
			W-EFF	<	50	<	0.5	<0.5	<0.5	<0.5				
07/09/96	3,232,330	3.0	W-INF		490		55	6.2	<0.5	110	1.73	16.8	0.2680	3.47
			W-INT	<	50	<	0.5	<0.5	<0.5	<0.5				
			W-EFF	<	50	<	0.5	<0.5	<0.5	<0.5				
08/08/96	3,365,060	3.1	W-INF		580		49	4.6	<1.0	75	0.59	17.4	0.0575	3.53
			W-INT	<	50	<	0.5	<0.5	<0.5	<0.5				
			W-EFF	<	50	<	0.5	<0.5	<0.5	<0.5				
09/05/96	---	---	W-INF		740		67	19	10	72	---	---	---	---
			W-INT	<	50	<	0.5	<0.5	<0.5	<0.5				
			W-EFF	<	50	<	0.5	<0.5	<0.5	<0.5				
10/02/96	3,530,230	2.1	W-INF		980		130	39	7.8	130	1.07	18.5	0.1231	3.65
			W-INT	<	50	<	0.5	<0.5	<0.5	<0.5				
			W-EFF	<	50	<	0.5	<0.5	<0.5	<0.5				
11/08/96	3,657,370	2.4	W-INF		480		42	7.1	0.69	79	0.77	19.2	0.0911	3.74
			W-INT	<	50	<	0.5	<0.5	<0.5	<0.5				
			W-EFF	<	50	<	0.5	<0.5	<0.5	<0.5				
12/09/96	3,735,650	1.8	W-INF	<	50	<	0.5	<0.5	<0.5	<0.5	0.17	19.4	0.0139	3.75
			W-INT	<	50	<	0.5	<0.5	<0.5	<0.5				
			W-EFF	<	50	<	0.5	<0.5	<0.5	<0.5				

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OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Date	Total Flow gal	Average Flowrate gpm	Sample ID	Laboratory Analytical Results TPHg ug/L	B ug/L	T ug/L	E ug/L	X ug/L	TPHg Removal Per Period lbs	TPHg Removal Cumulative lbs	Benzene Removal Per Period lbs	Benzene Removal Cumulative lbs
01/21/97	3,735,730	0.0	W-INF	690	69	20	20	91	0.00	19.4	0.0000	3.75
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
02/10/97	3,735,360	0.0	W-INF	860	100	24	1.4	160	---	---	---	---
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
03/20/97	3,843,430	2.0	W-INF	86	< 0.5	<0.5	<0.5	5.1	0.43	19.8	0.0452	3.80
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
04/03/97	3,918,650	3.7	W-INF	690	31	6.1	<5.0	89	0.24	20.1	0.0099	3.81
			W-INT	< 1,000	< 10	<10	<10	<10				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
05/07/97	4,092,720	3.6	W-INF	1,000	57	29	11	110	1.22	21.3	0.0638	3.87
			W-INT	< 50	1.1	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
06/11/97	4,144,600	1.0	W-INF	570	66	14	4.7	75	0.34	21.7	0.0266	3.90
			W-INT	< 50	0.57	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
06/25/97	4,273,310	---	W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5	---	---	---	---
07/24/97	4,363,090	3.5	W-INF	470	25	8.8	3.7	49	0.95	22.6	0.0828	3.98
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
08/04/97	4,408,100	2.8	W-INF	610	48	18	6.2	69	0.20	22.8	0.0137	4.00
			W-INT	< 50	0.76	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				

TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
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1725 Park Street
Alameda, California

Date	Total Flow gal	Average Flowrate gpm	Sample ID	Laboratory Analytical Results TPHg ug/L	B ug/L	T ug/L	E ug/L	X ug/L	TPHg Removal Per Period lbs	TPHg Removal Cumulative lbs	Benzene Removal Per Period lbs	Benzene Removal Cumulative lbs
10/21/97	4,496,810	0.8	W-INF	250	16	5.4	2.3	29	0.32	23.1	0.0236	4.02
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
11/04/97	4,553,090	2.8	W-INF	510	22	9.8	13	60	0.18	23.3	0.0089	4.03
			W-INT	< 50	0.82	<0.5	<0.5	0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
12/05/97	4,588,340	0.8	W-INF	79	1.5	<0.5	<0.5	53	0.09	23.4	0.0034	4.03
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
01/08/98	4,625,400	0.8	W-INF	83	2.6	0.74	<0.5	5.4	0.03	23.4	0.0006	4.03
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	0.58	<0.5	0.81	1.5				
03/03/98	4,662,470	0.5	W-INF	< 50	0.54	<0.5	<0.5	0.88	0.02	23.4	0.0005	4.03
			W-INT	< 50	< 0.5	<0.5	<0.5	0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
04/02/98	4,702,760	0.9	W-INF	1,100	170	32	12	160	0.19	23.6	0.0286	4.06
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
05/04/98	4,786,330	1.8	W-INF	1,000	140	23	8.5	150	0.73	24.4	0.1079	4.17
			W-INT	< 50	< 0.5	<0.5	<0.5	0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
06/10/98	4,852,030	1.2	W-INF	670	110	16	7.6	74	0.46	24.8	0.0684	4.24
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
07/07/98	4,951,910	2.6	W-INF	690	91	13	6.3	55	0.57	25.4	0.0836	4.32
			W-INT	< 200	< 2.0	<2.0	<2.0	<2.0				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				

TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Date	Total Flow gal	Average Flowrate gpm	Sample ID	Laboratory Analytical Results TPHg	B	T	E	X	TPHg Removal Per Period	TPHg Removal Cumulative	Benzene Removal Per Period	Benzene Removal Cumulative
				<......ug/L				......>	<.......lbs	....	<.......lbs	.......>
08/04/98	5,039,980	2.2	W-INF	230	36	6.4	2.5	17	0.34	25.7	0.0466	4.37
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
09/03/98	5,080,850	0.9	W-INF	280	13	2.0	6.4	21	0.09	25.8	0.0083	4.38
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
10/20/98	NM		W-INF	740	43	54	25	110	---	---	---	---
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
11/09/98	5,232,360	1.6	W-INF	300	37	10	8.4	43	0.37	26.2	0.0315	4.41
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
12/08/98	5,284,180	1.2	W-INF	700	82	25	13	100	0.22	26.4	0.0257	4.43
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
01/13/99	5,377,930	1.8	W-INF	1,030	155	46.5	52.7	73.3	0.68	27.1	0.0925	4.53
			W-INT	< 500	< 5.0	<5.0	<5.0	<5.0				
			W-EFF	< 500	< 5.0	<5.0	<5.0	<5.0				
02/08/99	5,441,820	1.7	W-INF	260	31	9.0	2.4	33	0.34	27.4	0.0495	4.58
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
03/08/99	5,509,090	1.7	W-INF	800	87	16	8.5	140	0.30	27.7	0.0331	4.61
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			W-EFF	< 50	< 0.5	<0.5	<0.5	<0.5				
04/05/99	5,571,890	1.6	W-INF	< 500	36.6	12.2	5.84	20.9	0.34	28.0	0.0323	4.64
			W-INT	< 500	< 5.0	<5.0	<5.0	<5.0				
			W-EFF	< 500	< 5.0	<5.0	<5.0	<5.0				

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1725 Park Street
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Date	Total Flow	Average Flowrate	Sample	Laboratory Analytical Results TPHg	B	T	E	X	TPHg Removal Per Period	TPHg Removal Cumulative	Benzene Removal Per Period	Benzene Removal Cumulative
	gal	gpm	ID	<.......ug/L.......>					<.......lbs.......>		<.......lbs.......>	
05/06/99	5,621,560	1.1	W-INF	310	45	6.0	0.86	41	0.17	28.2	0.0169	4.66
			W-INT	<50	<0.5	<0.5	<0.5	<0.5				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5				
06/07/99	5,706,250	1.8	W-INF	<250	24.8	<2.5	<2.5	8.74	0.20	28.4	0.0246	4.68
			W-INT	<100	<1.0	<1.0	<1.0	<1.0				
			W-EFF	<250	<2.5	<2.5	<2.5	<2.5				
07/28/99	5,805,010	1.3	W-INF	<100	7.00	<1.0	2.40	6.40	0.14	28.5	0.0131	4.70
			W-INT	<50	<0.5	<0.5	<0.5	<0.5				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5				
08/09/99	5,849,280	2.6	W-INF	<500	17.1	5.88	<5.0	26.8	0.11	28.7	0.0044	4.70
			W-INT	<250	<2.5	<2.5	<2.5	<2.5				
			W-EFF	<250	<2.5	<2.5	<2.5	<2.5				
09/07/99	5,880,860	0.8	W-INF	<500	20.4	<5.0	<5.0	31.1	0.13	28.8	0.0049	4.71
			W-INT	<50	<0.5	<0.5	<0.5	<0.5				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5				
10/12/99	5,966,690	1.7	W-INF	100	2	<1.0	<1.0	<1.0	0.21	29.0	0.0080	4.71
			W-INT	<50	<1.0	<1.0	<1.0	<1.0				
			W-EFF	<50	<1.0	<1.0	<1.0	<1.0				
11/18/99	5,971,540	0.1	W-INF	660	66	7.8	5.6	57	0.02	29.0	0.0014	4.72
			W-INT	<50	<1.0	<1.0	<1.0	<1.0				
			W-EFF	<50	<1.0	<1.0	<1.0	<1.0				
12/09/99	5,992,780	0.7	W-INF	200	28	3.2	2.2	22.4	0.08	29.1	0.0083	4.72
			W-INT1	<50	<1.0	<1.0	<1.0	<1.0				
			W-INT2	<50	<1.0	<1.0	<1.0	<1.0				
			W-EFF	<50	<1.0	<1.0	<1.0	<1.0				

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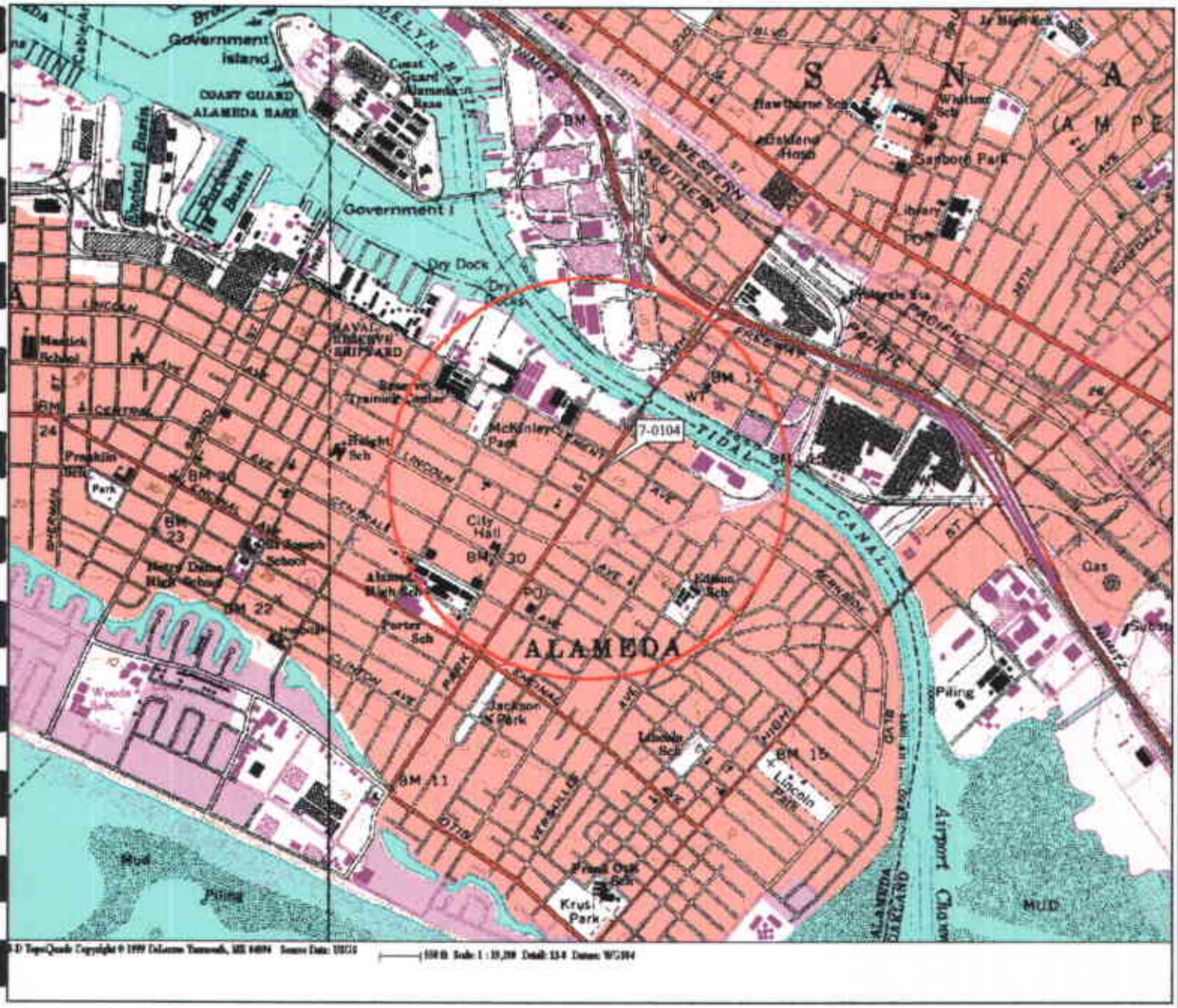
1725 Park Street
Alameda, California

Date	Total Flow gal	Average Flowrate gpm	Sample ID	Laboratory Analytical Results TPHg ug/L	B ug/L	T ug/L	E ug/L	X ug/L	TPHg Removal Per Period lbs	TPHg Removal Cumulative lbs	Benzene Removal Per Period lbs	Benzene Removal Cumulative lbs
01/10/00	6,035,690	0.9	W-INF	120	11	1.5	1.8	14.5	0.06	29.2	0.0070	4.73
			W-INT	< 50	< 1.0	<1.0	<1.0	<1.0				
			W-EFF	< 50	< 1.0	<1.0	<1.0	<1.0				
02/08/00	6,055,000	0.5	W-INF	130	14	<1.0	<1.0	11.9	0.02	29.2	0.3530	5.08
			MID	< 50	< 1.0	<1.0	<1.0	<1.0				
			W-EFF	< 50	< 1.0	<1.0	<1.0	<1.0				
03/24/00	6,080,125	0.4	System shutdown pending evaluation.									
03/28/00	6,080,360	0.0	W-INF	< 50	< 1.0	<1.0	<1.0	<1.0	0.02	29.2	0.0016	5.08
			MID	< 50	< 1.0	<1.0	<1.0	<1.0				
			W-EFF	< 67	< 1.0	<1.0	<1.0	<1.0				
03/28/00	System shutdown upon departure.											
04/01/00	Environmental Resolutions, Inc. assumed operation of the remediation system.											

Notes: Data prior to April 1, 2000 provided by Delta Environmental Consultants, Inc.

W- INF	=	Water sample collected at the influent sample location.
W-INT	=	Water sample collected at the intermediate sample location.
W-EFF	=	Water sample collected at the effluent sample location (EBMUD sample location SS#1).
gal	=	Gallons.
gpm	=	Gallons per minute.
ug/L	=	Micrograms per liter.
lbs	=	Pounds.
TPHg	=	Total petroleum hydrocarbons as gasoline.
B	=	Benzene.
T	=	Toluene.
E	=	Ethylbenzene.
X	=	Total Xylenes.
<	=	Less than the laboratory method detection limit as indicated.
---	=	Not measured/sampled/analyzed.



EXPLANATION

1/2–mile radius circle

N

APPROXIMATE SCALE

0 0.5 1 mile

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

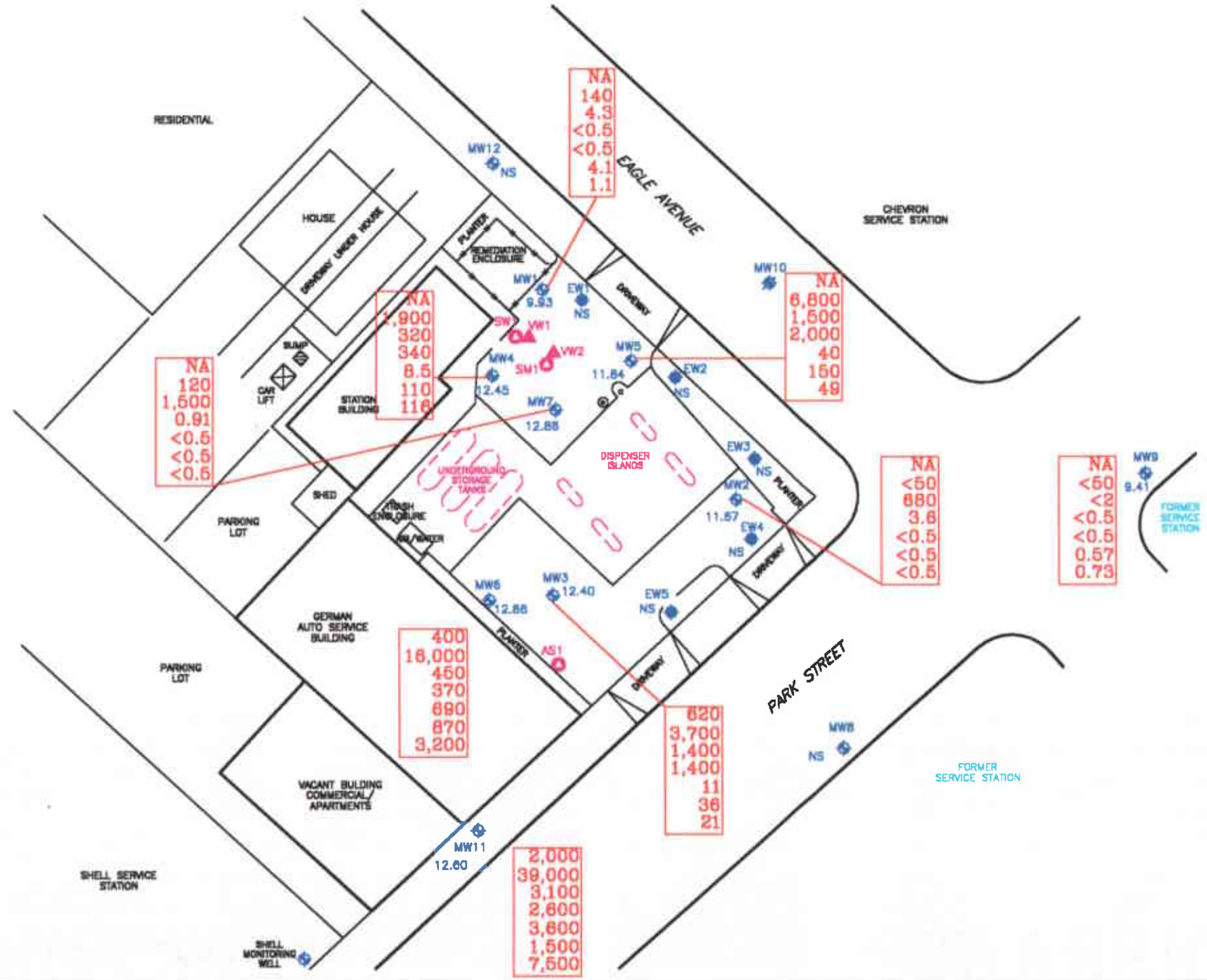
ENVIRONMENTAL RESOLUTIONS, INC.

SITE VICINITY MAP

FORMER EXXON SERVICE STATION 7–0104
1725 Park Street
Alameda, California

PROJECT NO. 2506

PLATE 1



Groundwater Concentrations in ug/L
Sampled April 2, 2001

2,000	Total Petroleum Hydrocarbons as diesel
39,000	Total Petroleum Hydrocarbons as gasoline
3,100	Methyl Tertiary Butyl Ether
2,600	Benzene
3,600	Toluene
1,500	Ethylbenzene
7,500	Total Xylenes
<	Less Than the Stated Laboratory Detection Limit
ug/L	Micrograms per Liter
NS	Not Sampled
NA	Not Analyzed

APPROXIMATE SCALE
0 40 80 Feet

FN 25060002

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER
EXXON SERVICE STATION 7-0104
1725 Park Street
Alameda, California

EXPLANATION

- MW9 — Groundwater Monitoring Well
- 9.10 — Groundwater elevation in feet above mean sea level
- MW10 — Destroyed Groundwater Monitoring Well
- VW2 — Vapor Extraction Well
- EW5 — Recovery Well
- AS1 — Air Sparge/Soil Vapor Well

PROJECT NO. 2506

PLATE 2

May 7, 2001

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 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 REPORTS AND CHAIN-OF-CUSTODY RECORDS

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01040099

Report To:		Project Name:	2506-13X	
Environmental Resolution, Inc.		Site:	7-0104	
Jim Chappell		Site Address:	1725 Park Street	
73 Digital Drive Suite 100			Almeda	CA
Novato		PO Number:	EWR#21040341	
California		State:	California	
94949-		State Cert. No.:	1903	
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	4/16/01	

This Report Contains A Total Of 25 Pages

Excluding This Page

And

Chain Of Custody

4/16/01

Date

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01040099

Report To:		Project Name:	2506-13X	
Environmental Resolution, Inc.		Site:	7-0104	
Jim Chappell		Site Address:	1725 Park Street	
73 Digital Drive Suite 100			Almeda	CA
Novato		PO Number:	EWR#21040341	
California		State:	California	
94949-		State Cert. No.:	1903	
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	4/16/01	

The DRO containers for your sample ID "W-4-MW6" were not received, however, containers labeled "W-9-MW6" (SPL ID: 01040099-12) were received. Per your request, via phone conversation, on April 9, 2001, SPL analyzed your sample ID "W-9-MW6" for Diesel Range Organic by SW846 method 8015.

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.

4/16/01

Sonia West
Senior Project Manager

Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01040099

Report To: Environmental Resolution, Inc.
Jim Chappell
73 Digital Drive Suite 100

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

Fax To: Environmental Resolution, Inc.
Jim Chappell fax : (415) 382-1856

Project Name: 2506-13X
Site: 7-0104
Site Address: 1725 Park Street
Almeda CA
PO Number: EWR#21040341
State: California
State Cert. No.: 1903
Date Reported: 4/16/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
	01040099-01	Water	4/2/01	4/4/01 10:00:00 AM		☐
BB-MW9	01040099-02	Water	4/2/01 3:20:00 PM	4/4/01 10:00:00 AM		☐
W-6-MW9	01040099-03	Water	4/2/01 3:24:00 PM	4/4/01 10:00:00 AM		☐
W-5-MW1	01040099-04	Water	4/2/01 3:33:00 PM	4/4/01 10:00:00 AM		☐
4-MW4	01040099-05	Water	4/2/01 3:39:00 PM	4/4/01 10:00:00 AM		☐
W-5-MW5	01040099-06	Water	4/2/01 3:45:00 PM	4/4/01 10:00:00 AM		☐
W-4-MW7	01040099-07	Water	4/2/01 3:51:00 PM	4/4/01 10:00:00 AM		☐
9-MW2	01040099-08	Water	4/2/01 3:57:00 PM	4/4/01 10:00:00 AM		☐
4-MW6	01040099-09	Water	4/2/01 4:07:00 PM	4/4/01 10:00:00 AM		☐
W-4-MW3	01040099-10	Water	4/2/01 4:10:00 PM	4/4/01 10:00:00 AM		☐
5-MW11	01040099-11	Water	4/2/01 4:21:00 PM	4/4/01 10:00:00 AM		☐
9-MW6	01040099-12	Water	4/2/01 3:51:00 PM	4/4/01 10:00:00 AM		☐

Sonia West

4/16/01

nia West
nior Project Manager

Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

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

Client Sample ID TB **Collected:** 4/2/01 **SPL Sample ID:** 01040099-01

Site: 7-0104

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		04/06/01 21:44	D_R	630281
Surr: 1,4-Difluorobenzene	95.7	%	62-144		1		04/06/01 21:44	D_R	630281
Surr: 4-Bromofluorobenzene	100	%	44-153		1		04/06/01 21:44	D_R	630281
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5		1		04/06/01 21:44	D_R	630250
Ethylbenzene	ND		0.5		1		04/06/01 21:44	D_R	630250
Methyl tert-butyl ether	ND		2		1		04/06/01 21:44	D_R	630250
Toluene	ND		0.5		1		04/06/01 21:44	D_R	630250
m,p-Xylene	ND		0.5		1		04/06/01 21:44	D_R	630250
o-Xylene	ND		0.5		1		04/06/01 21:44	D_R	630250
Xylenes,Total	ND		0.5		1		04/06/01 21:44	D_R	630250
Surr: 1,4-Difluorobenzene	98.4	%	72-137		1		04/06/01 21:44	D_R	630250
Surr: 4-Bromofluorobenzene	102	%	48-156		1		04/06/01 21:44	D_R	630250

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID W-BB-MW9 **Collected:** 4/2/01 3:20:00 P **SPL Sample ID:** 01040099-02

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**CA_DRO**		**Units: ug/L**		
Diesel Range Organics	ND		50	1		04/09/01 18:45	AM	632930
Surr: n-Pentacosane	126	%	20-150	1		04/09/01 18:45	AM	632930

Prep Method	Prep Date	Prep Initials
SW3510B	04/06/2001 19:16	G_T

GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	ND		50	1		04/06/01 22:12	D_R	630282
Surr: 1,4-Difluorobenzene	99.0	%	62-144	1		04/06/01 22:12	D_R	630282
Surr: 4-Bromofluorobenzene	98.3	%	44-153	1		04/06/01 22:12	D_R	630282
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5	1		04/06/01 22:12	D_R	630251
Ethylbenzene	ND		0.5	1		04/06/01 22:12	D_R	630251
Methyl tert-butyl ether	ND		2	1		04/06/01 22:12	D_R	630251
Toluene	ND		0.5	1		04/06/01 22:12	D_R	630251
m,p-Xylene	ND		0.5	1		04/06/01 22:12	D_R	630251
o-Xylene	ND		0.5	1		04/06/01 22:12	D_R	630251
Xylenes,Total	ND		0.5	1		04/06/01 22:12	D_R	630251
Surr: 1,4-Difluorobenzene	98.7	%	72-137	1		04/06/01 22:12	D_R	630251
Surr: 4-Bromofluorobenzene	102	%	48-156	1		04/06/01 22:12	D_R	630251

Sonia West

Sonia West
Project Manager

Qualifiers:
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MI - Matrix Interference

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

Client Sample ID W-6-MW9 **Collected:** 4/2/01 3:24:00 P **SPL Sample ID:** 01040099-03

Site: 7-0104

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		04/07/01 0:30	D_R	630290
Surr: 1,4-Difluorobenzene	97.7	%	62-144	1		04/07/01 0:30	D_R	630290
Surr: 4-Bromofluorobenzene	101	%	44-153	1		04/07/01 0:30	D_R	630290
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5	1		04/07/01 0:30	D_R	630254
Ethylbenzene	0.57		0.5	1		04/07/01 0:30	D_R	630254
Methyl tert-butyl ether	ND		2	1		04/07/01 0:30	D_R	630254
Toluene	ND		0.5	1		04/07/01 0:30	D_R	630254
m,p-Xylene	0.73		0.5	1		04/07/01 0:30	D_R	630254
o-Xylene	ND		0.5	1		04/07/01 0:30	D_R	630254
Xylenes,Total	0.73		0.5	1		04/07/01 0:30	D_R	630254
Surr: 1,4-Difluorobenzene	98.9	%	72-137	1		04/07/01 0:30	D_R	630254
Surr: 4-Bromofluorobenzene	106	%	48-156	1		04/07/01 0:30	D_R	630254

Sonia West

Sonia West
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-MW1 **Collected:** 4/2/01 3:33:00 P **SPL Sample ID:** 01040099-04

Site: 7-0104

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	140		50		1		04/07/01 0:57	D_R	630284
Surr: 1,4-Difluorobenzene	116	%	62-144		1		04/07/01 0:57	D_R	630284
Surr: 4-Bromofluorobenzene	160MI	%	44-153		1	*	04/07/01 0:57	D_R	630284
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND		0.5		1		04/07/01 0:57	D_R	630255
Ethylbenzene	4.1		0.5		1		04/07/01 0:57	D_R	630255
Methyl tert-butyl ether	4.3		2		1		04/07/01 0:57	D_R	630255
Toluene	ND		0.5		1		04/07/01 0:57	D_R	630255
m,p-Xylene	1.1		0.5		1		04/07/01 0:57	D_R	630255
o-Xylene	ND		0.5		1		04/07/01 0:57	D_R	630255
Xylenes,Total	1.1		0.5		1		04/07/01 0:57	D_R	630255
Surr: 1,4-Difluorobenzene	99.0	%	72-137		1		04/07/01 0:57	D_R	630255
Surr: 4-Bromofluorobenzene	129	%	48-156		1		04/07/01 0:57	D_R	630255

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID W-4-MW4 **Collected:** 4/2/01 3:39:00 P **SPL Sample ID:** 01040099-05

Site: 7-0104

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	1900		250		5		04/07/01 14:16	D_R	630800
Surr: 1,4-Difluorobenzene	140	%	62-144		5		04/07/01 14:16	D_R	630800
Surr: 4-Bromofluorobenzene	152	%	44-153		5		04/07/01 14:16	D_R	630800
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	340		0.5		1		04/07/01 1:25	D_R	630256
Ethylbenzene	110		0.5		1		04/07/01 1:25	D_R	630256
Methyl tert-butyl ether	320		2		1		04/07/01 1:25	D_R	630256
Toluene	8.5		0.5		1		04/07/01 1:25	D_R	630256
m,p-Xylene	99		0.5		1		04/07/01 1:25	D_R	630256
o-Xylene	17		0.5		1		04/07/01 1:25	D_R	630256
Xylenes,Total	116		0.5		1		04/07/01 1:25	D_R	630256
Surr: 1,4-Difluorobenzene	125	%	72-137		1		04/07/01 1:25	D_R	630256
Surr: 4-Bromofluorobenzene	220MI	%	48-156		1	*	04/07/01 1:25	D_R	630256

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID W-5-MW5 **Collected:** 4/2/01 3:45:00 P **SPL Sample ID:** 01040099-06

Site: 7-0104

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	6800		1200		25		04/07/01 1:52	D_R	630286
Surr: 1,4-Difluorobenzene	111	%	62-144		25		04/07/01 1:52	D_R	630286
Surr: 4-Bromofluorobenzene	122	%	44-153		25		04/07/01 1:52	D_R	630286
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	2000		12		25		04/07/01 1:52	D_R	630257
Ethylbenzene	150		12		25		04/07/01 1:52	D_R	630257
Methyl tert-butyl ether	1500		50		25		04/07/01 1:52	D_R	630257
Toluene	40		12		25		04/07/01 1:52	D_R	630257
m,p-Xylene	49		12		25		04/07/01 1:52	D_R	630257
o-Xylene	ND		12		25		04/07/01 1:52	D_R	630257
Xylenes,Total	49		12		25		04/07/01 1:52	D_R	630257
Surr: 1,4-Difluorobenzene	100	%	72-137		25		04/07/01 1:52	D_R	630257
Surr: 4-Bromofluorobenzene	107	%	48-156		25		04/07/01 1:52	D_R	630257

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID W-4-MW7 **Collected:** 4/2/01 3:51:00 P **SPL Sample ID:** 01040099-07

Site: 7-0104

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS				**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	120		50		1		04/07/01 2:20	D_R	630287
Surr: 1,4-Difluorobenzene	105	%	62-144		1		04/07/01 2:20	D_R	630287
Surr: 4-Bromofluorobenzene	108	%	44-153		1		04/07/01 2:20	D_R	630287
PURGEABLE AROMATICS				**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	0.91		0.5		1		04/07/01 2:20	D_R	630258
Ethylbenzene	ND		0.5		1		04/07/01 2:20	D_R	630258
Methyl tert-butyl ether	1500		20		10		04/07/01 14:44	D_R	630776
Toluene	ND		0.5		1		04/07/01 2:20	D_R	630258
m,p-Xylene	ND		0.5		1		04/07/01 2:20	D_R	630258
o-Xylene	ND		0.5		1		04/07/01 2:20	D_R	630258
Xylenes,Total	ND		0.5		1		04/07/01 2:20	D_R	630258
Surr: 1,4-Difluorobenzene	101	%	72-137		10		04/07/01 14:44	D_R	630776
Surr: 1,4-Difluorobenzene	96.7	%	72-137		1		04/07/01 2:20	D_R	630258
Surr: 4-Bromofluorobenzene	97.6	%	48-156		10		04/07/01 14:44	D_R	630776
Surr: 4-Bromofluorobenzene	95.1	%	48-156		1		04/07/01 2:20	D_R	630258

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID W-9-MW2 **Collected:** 4/2/01 3:57:00 P **SPL Sample ID:** 01040099-08

Site: 7-0104

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		04/07/01 2:47	D_R	630288
Surr: 1,4-Difluorobenzene	100	%	62-144	1		04/07/01 2:47	D_R	630288
Surr: 4-Bromofluorobenzene	107	%	44-153	1		04/07/01 2:47	D_R	630288
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	3.6		0.5	1		04/07/01 2:47	D_R	630259
Ethylbenzene	ND		0.5	1		04/07/01 2:47	D_R	630259
Methyl tert-butyl ether	680		20	10		04/07/01 15:11	D_R	630777
Toluene	ND		0.5	1		04/07/01 2:47	D_R	630259
m,p-Xylene	ND		0.5	1		04/07/01 2:47	D_R	630259
o-Xylene	ND		0.5	1		04/07/01 2:47	D_R	630259
Xylenes,Total	ND		0.5	1		04/07/01 2:47	D_R	630259
Surr: 1,4-Difluorobenzene	99.4	%	72-137	1		04/07/01 2:47	D_R	630259
Surr: 1,4-Difluorobenzene	101	%	72-137	10		04/07/01 15:11	D_R	630777
Surr: 4-Bromofluorobenzene	97.7	%	48-156	10		04/07/01 15:11	D_R	630777
Surr: 4-Bromofluorobenzene	120	%	48-156	1		04/07/01 2:47	D_R	630259

Sonia West

Sonia West
Project Manager

Qualifiers:
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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-4-MW6 **Collected:** 4/2/01 4:07:00 P **SPL Sample ID:** 01040099-09

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	16000		1200	25		04/07/01 3:15	D_R	630289
Surr: 1,4-Difluorobenzene	116	%	62-144	25		04/07/01 3:15	D_R	630289
Surr: 4-Bromofluorobenzene	125	%	44-153	25		04/07/01 3:15	D_R	630289
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	370		12	25		04/07/01 15:39	D_R	630778
Ethylbenzene	870		12	25		04/07/01 15:39	D_R	630778
Methyl tert-butyl ether	450		50	25		04/07/01 15:39	D_R	630778
Toluene	690		12	25		04/07/01 15:39	D_R	630778
m,p-Xylene	2700		12	25		04/07/01 15:39	D_R	630778
o-Xylene	500		12	25		04/07/01 15:39	D_R	630778
Xylenes,Total	3200		12	25		04/07/01 15:39	D_R	630778
Surr: 1,4-Difluorobenzene	106	%	72-137	25		04/07/01 15:39	D_R	630778
Surr: 4-Bromofluorobenzene	107	%	48-156	25		04/07/01 15:39	D_R	630778

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID W-4-MW3 **Collected:** 4/2/01 4:10:00 P **SPL Sample ID:** 01040099-10

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**CA_DRO**		**Units: ug/L**		
Diesel Range Organics	620		50	1		04/09/01 19:24	AM	632931
Surr: n-Pentacosane	110	%	20-150	1		04/09/01 19:24	AM	632931

Prep Method	Prep Date	Prep Initials
SW3510B	04/06/2001 19:16	G_T

GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	3700		250	5		04/07/01 17:02	D_R	630801
Surr: 1,4-Difluorobenzene	141	%	62-144	5		04/07/01 17:02	D_R	630801
Surr: 4-Bromofluorobenzene	144	%	44-153	5		04/07/01 17:02	D_R	630801
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	1400		2.5	5		04/07/01 17:02	D_R	630781
Ethylbenzene	36		2.5	5		04/07/01 17:02	D_R	630781
Methyl tert-butyl ether	1400		10	5		04/07/01 17:02	D_R	630781
Toluene	11		2.5	5		04/07/01 17:02	D_R	630781
m,p-Xylene	21		2.5	5		04/07/01 17:02	D_R	630781
o-Xylene	ND		2.5	5		04/07/01 17:02	D_R	630781
Xylenes,Total	21		2.5	5		04/07/01 17:02	D_R	630781
Surr: 1,4-Difluorobenzene	111	%	72-137	5		04/07/01 17:02	D_R	630781
Surr: 4-Bromofluorobenzene	115	%	48-156	5		04/07/01 17:02	D_R	630781

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)
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MI - Matrix Interference

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Client Sample ID W-5-MW11 **Collected:** 4/2/01 4:21:00 P **SPL Sample ID:** 01040099-11

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**CA_DRO**		**Units: ug/L**		
Diesel Range Organics	2000		50	1		04/09/01 20:02	AM	632932
Surr: n-Pentacosane	120	%	20-150	1		04/09/01 20:02	AM	632932

Prep Method	Prep Date	Prep Initials
SW3510B	04/06/2001 19:16	G_T

GASOLINE RANGE ORGANICS			**MCL**	**CA_GRO**		**Units: ug/L**		
Gasoline Range Organics	39000		5000	100		04/07/01 17:29	D_R	630802
Surr: 1,4-Difluorobenzene	108	%	62-144	100		04/07/01 17:29	D_R	630802
Surr: 4-Bromofluorobenzene	102	%	44-153	100		04/07/01 17:29	D_R	630802
PURGEABLE AROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	2600		50	100		04/07/01 17:29	D_R	630782
Ethylbenzene	1500		50	100		04/07/01 17:29	D_R	630782
Methyl tert-butyl ether	3100		200	100		04/07/01 17:29	D_R	630782
Toluene	3600		50	100		04/07/01 17:29	D_R	630782
m,p-Xylene	5300		50	100		04/07/01 17:29	D_R	630782
o-Xylene	2200		50	100		04/07/01 17:29	D_R	630782
Xylenes,Total	7500		50	100		04/07/01 17:29	D_R	630782
Surr: 1,4-Difluorobenzene	102	%	72-137	100		04/07/01 17:29	D_R	630782
Surr: 4-Bromofluorobenzene	103	%	48-156	100		04/07/01 17:29	D_R	630782

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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

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Client Sample ID W-9-MW6 **Collected:** 4/2/01 3:51:00 P **SPL Sample ID:** 01040099-12

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
DIESEL RANGE ORGANICS			**MCL**	**CA_DRO**		**Units: ug/L**		
Diesel Range Organics	400		50	1		04/13/01 5:51	AM	638352
Surr: n-Pentacosane	47.6	%	20-150	1		04/13/01 5:51	AM	638352

Prep Method	Prep Date	Prep Initials
SW3510B	04/09/2001 11:31	KL

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Project Manager

Qualifiers:
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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.

2506-13X

Analysis: Diesel Range Organics
Method: CA_DRO

WorkOrder: 01040099
Lab Batch ID: 11421

Method Blank

RunID: HP_V_010409A-632928 Units: mg/L
Analysis Date: 04/09/2001 17:28 Analyst: AM
Preparation Date: 04/06/2001 19:16 Prep By: G_T Method SW3510B

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: n-Pentacosane	129.8	20-150

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01040099-02B	W-BB-MW9
01040099-10B	W-4-MW3
01040099-11B	W-5-MW11

Laboratory Control Sample (LCS)

RunID: HP_V_010409A-632929 Units: mg/L
Analysis Date: 04/09/2001 18:06 Analyst: AM
Preparation Date: 04/06/2001 19:16 Prep By: G_T Method SW3510B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	2.5	2.8	113	21	175

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

Sample Spiked: 01040127-03
RunID: HP_V_010409A-632935 Units: mg/L
Analysis Date: 04/09/2001 21:58 Analyst: AM
Preparation Date: 04/06/2001 19:16 Prep By: G_T Method SW3510B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	0.39	2.5	1.8	56.2	2.5	2.6	87.4	43.5 *	20	21	175

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

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

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

Quality Control Report

EXXON Company U.S.A.

2506-13X

Analysis: Diesel Range Organics
Method: CA_DRO

WorkOrder: 01040099
Lab Batch ID: 11456

Method Blank

RunID: HP_V_010413A-638350 Units: mg/L
Analysis Date: 04/13/2001 4:34 Analyst: AM
Preparation Date: 04/09/2001 11:31 Prep By: KL Method SW3510B

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01040099-12A	W-9-MW6

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: n-Pentacosane	69.8	20-150

Laboratory Control Sample (LCS)

RunID: HP_V_010413A-638351 Units: mg/L
Analysis Date: 04/13/2001 5:12 Analyst: AM
Preparation Date: 04/09/2001 11:31 Prep By: KL Method SW3510B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	2.5	2.1	85	21	175

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

Sample Spiked: 01040099-12
RunID: HP_V_010413A-638353 Units: mg/L
Analysis Date: 04/13/2001 6:30 Analyst: AM
Preparation Date: 04/09/2001 11:31 Prep By: KL Method SW3510B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	0.40	1.25	2.1	134	1.25	1.8	113	16.7	20	21	175

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

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HOUSTON LABORATORY
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(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-13X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01040099
Lab Batch ID: R33004

Method Blank

RunID: HP_R_010406A-630238 Units: ug/L
Analysis Date: 04/06/2001 15:12 Analyst: D_R

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	98.9	72-137
Surr: 4-Bromofluorobenzene	102.2	48-156

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01040099-01A	TB
01040099-02A	W-BB-MW9
01040099-03A	W-6-MW9
01040099-04A	W-5-MW1
01040099-05A	W-4-MW4
01040099-06A	W-5-MW5
01040099-07A	W-4-MW7
01040099-08A	W-9-MW2

Laboratory Control Sample (LCS)

RunID: HP_R_010406A-630237 Units: ug/L
Analysis Date: 04/06/2001 14:17 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	49	99	70	130
Ethylbenzene	50	50	101	70	130
Methyl tert-butyl ether	50	47	95	70	130
Toluene	50	50	99	70	130
m,p-Xylene	100	100	101	70	130
o-Xylene	50	50	100	70	130
Xylenes,Total	150	150	100	70	130

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

Sample Spiked: 01040099-03
RunID: HP_R_010406A-630252 Units: ug/L
Analysis Date: 04/06/2001 22:39 Analyst: D_R

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	25	121	20	24	116	4.08	21	32	164
Ethylbenzene	0.57	20	24	118	20	24	116	1.40	19	52	142
Methyl tert-butyl ether	ND	20	23	116	20	23	117	1.54	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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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HOUSTON, TEXAS 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-13X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01040099
Lab Batch ID: R33004

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

Sample Spiked: 01040099-03
RunID: HP_R_010406A-630252 Units: ug/L
Analysis Date: 04/06/2001 22:39 Analyst: D_R

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	24	121	20	24	119	1.40	20	38	159
m,p-Xylene	0.73	40	47	116	40	46	114	2.17	17	53	144
o-Xylene	ND	20	24	120	20	24	118	1.81	18	53	143
Xylenes,Total	0.73	60	71	117	60	70	115	1.43	18	53	144

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

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

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

Quality Control Report

EXXON Company U.S.A.

2506-13X

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01040099
Lab Batch ID: R33006

Method Blank

RunID: HP_R_010406C-630279 Units: mg/L
Analysis Date: 04/06/2001 15:12 Analyst: D_R

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	100.3	62-144
Surr: 4-Bromofluorobenzene	101.7	44-153

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01040099-01A	TB
01040099-02A	W-BB-MW9
01040099-03A	W-6-MW9
01040099-04A	W-5-MW1
01040099-06A	W-5-MW5
01040099-07A	W-4-MW7
01040099-08A	W-9-MW2
01040099-09A	W-4-MW6

Laboratory Control Sample (LCS)

RunID: HP_R_010406C-630278 Units: mg/L
Analysis Date: 04/06/2001 14:44 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.81	81	70	130

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

Sample Spiked: 01040099-02
RunID: HP_R_010406C-630716 Units: mg/L
Analysis Date: 04/07/2001 12:36 Analyst: D_R

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	1	113	0.9	1	113	0.463	36	36	160

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

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

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(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-13X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01040099
Lab Batch ID: R33024

Method Blank

RunID: HP_R_010407A-630774 Units: ug/L
Analysis Date: 04/07/2001 12:03 Analyst: D_R

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	98.5	72-137
Surr: 4-Bromofluorobenzene	103.0	48-156

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01040099-07A	W-4-MW7
01040099-08A	W-9-MW2
01040099-09A	W-4-MW6
01040099-10A	W-4-MW3
01040099-11A	W-5-MW11

Laboratory Control Sample (LCS)

RunID: HP_R_010407A-630773 Units: ug/L
Analysis Date: 04/07/2001 11:08 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	48	96	70	130
Ethylbenzene	50	50	99	70	130
Methyl tert-butyl ether	50	48	96	70	130
Toluene	50	49	97	70	130
m,p-Xylene	100	99	99	70	130
o-Xylene	50	49	98	70	130
Xylenes,Total	150	148	99	70	130

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

Sample Spiked: 01040175-01
RunID: HP_R_010407A-630785 Units: ug/L
Analysis Date: 04/07/2001 19:47 Analyst: D_R

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	1.6	20	25	115	20	24	114	0.623	21	32	164
Ethylbenzene	5.4	20	29	116	20	28	113	2.56	19	52	142
Methyl tert-butyl ether	8900	20	8900	15.0 *	20	8900	-75.0 *	300 *	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
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

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

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

Quality Control Report

EXXON Company U.S.A.

2506-13X

Analysis: Purgeable Aromatics
Method: SW8021B

WorkOrder: 01040099
Lab Batch ID: R33024

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

Sample Spiked: 01040175-01
RunID: HP_R_010407A-630785 Units: ug/L
Analysis Date: 04/07/2001 19:47 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
luene	ND	20	23	116	20	23	114	1.60	20	38	159
m,p-Xylene	8.1	40	53	114	40	52	110	3.01	17	53	144
o-Xylene	1.8	20	25	116	20	24	113	2.47	18	53	143
enes,Total	9.9	60	78	114	60	76	110	2.98	18	53	144

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte detected in the associated Method Blank
J - Estimated value between MDL and PQL
MI - Matrix Interference
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* - 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.

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

Quality Control Report

EXXON Company U.S.A.

2506-13X

Analysis: Gasoline Range Organics
Method: CA_GRO

WorkOrder: 01040099
Lab Batch ID: R33025

Method Blank

RunID: HP_R_010407B-630817 Units: mg/L
Analysis Date: 04/07/2001 12:03 Analyst: D_R

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01040099-05A	W-4-MW4
01040099-10A	W-4-MW3
01040099-11A	W-5-MW11

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	99.3	62-144
Surr: 4-Bromofluorobenzene	104.0	44-153

Laboratory Control Sample (LCS)

RunID: HP_R_010407B-630798 Units: mg/L
Analysis Date: 04/07/2001 11:36 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.81	81	70	130

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

Sample Spiked: 01040175-03
RunID: HP_R_010407B-630805 Units: mg/L
Analysis Date: 04/07/2001 20:42 Analyst: D_R

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	0.91	101	0.9	0.88	97.8	3.48	36	36	160

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

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

Sample Receipt Checklist

And

Chain of Custody

HOUSTON LABORATORY
6880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	01040099	Received By:	NB
Date and Time Received:	4/4/01 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 shippping 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: West, Sonia
Contact Date & Time: 4/9/01 4:21:00 PM
Client Name Contacted: Jim Chappell

Non Conformance Issues: RECEIVED 2-CONTAINERS FOR DRO NOT WRITTEN ON COC ID#W-9-MW6 4/2/01 15:51.DID NOT RECEIVE 2-CONTAINERS FOR ID#W-4-MW6 BUT IS WRITTEN ON COC.

Client Instructions: Report as W-9-MW6

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. _____ Page 1 of 2

Exxon Engineer: Gene Ortega Phone: (925) 246-8747

Consultant Co. Name ERI Contact: Jim Chappell

Address: 75 Digital Dr. Suite 100 Fax: (415) 382-1856
Novato CA 94949

RAS #: 7-0104 Facility/State ID # (TN Only): _____

AFE # (Terminal Only): _____ Consultant Project #: 2506-13X

Location: 1725 Park St. (City) Alameda (State) CA
☐ EE ☐ C&M ☐ SDT

Consultant Work Release #: 7101110

Sampled By: Dan Glaze

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX) | **OTHER**

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX H_2O	MATRIX SOIL	MATRIX AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GRO ☐	TPH/GC 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 ☐
TB	3/1	—			X				HCl	3/0	40ml/VOA	X	X	X	X														
W-BB-MW9	4/2	1520								2/1	1L/AMB																		
W-6-MW9		1524								3/0	40ml/VOA																		
W-5-MW1		1533																											
W-4-MW4		1539																											
W-5-MW5		1545																											
W-4-MW7		1551																											
W-9-MW2		1557								←																			
W-4-MW6		1607								3/2	1L/AMB	X	X																
W-4-MW3	↓	1610			↓				↓	3/2	↓	X	X	↓	↓														

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

EXXON UST CONTRACT NO. C41483

QA/QC Level
Standard X CLP ☐ Other ☐ _____

SPECIAL DETECTION LIMITS (Specify)

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

REMARKS:
* Diesel 8015 DRO
No Diesel on samples W-6-MW9 to W-9-MW2

LAB USE ONLY Lot # Storage Location

WORK ORDER #: LAB WORK RELEASE #:

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler: Dan Glaze	4/3/01	0930	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: Nancy Barbera 4/4/01

Way Bill # _____ Cooler Temp 2.0°C 4c

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

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01020412

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:	2506-11X
Site:	7-0104,21011100
Site Address:	
PO Number:	LWR#2101512
State:	California
State Cert. No.:	1903
Date Reported:	2/19/01

This Report Contains A Total Of 10 Pages

Excluding This Page

And

Chain Of Custody

2/19/01

Date

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01020412

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ph: (415) 382-9105 fax: (415) 382-1856

Project Name:	2506-11X
Site:	7-0104,21011100
Site Address:	
PO Number:	LWR#2101512
State:	California
State Cert. No.:	1903
Date Reported:	2/19/01

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

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

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

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

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

Sonia West

West, Sonia
Senior Project Manager

2/19/01

Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01020412

Report To: Environmental Resolution, Inc.
Jim Chappell
73 Digital Drive Suite 100

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

Fax To: Environmental Resolution, Inc.
Jim Chappell fax : (415) 382-1856

Project Name: 2506-11X
Site: 7-0104,21011100
Site Address:

PO Number: LWR#2101512
State: California
State Cert. No.: 1903
Date Reported: 2/19/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
A-INF	01020412-01	Air	2/13/01 4:30:00 PM	2/15/01 10:00:00 AM		☐
A-INT	01020412-02	Air	2/13/01 4:30:00 PM	2/15/01 10:00:00 AM		☐
A-EFF	01020412-03	Air	2/13/01 4:30:00 PM	2/15/01 10:00:00 AM		☐

Sonia West

West, Sonia
Senior Project Manager

2/19/01
Date

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01020412

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: 2506-11X
Site: 7-0104,21011100
Site Address:

PO Number: LWR#2101512
State: California
State Cert. No.: 1903
Date Reported: 2/19/01

Client Sample ID: A-INF **SPL Sample ID:** 01020412-01A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	1.1	1.0	0.29	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	31	10	8.7	2.8

Client Sample ID: A-INT **SPL Sample ID:** 01020412-02A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01020412

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: 2506-11X
Site: 7-0104,21011100
Site Address:

PO Number: LWR#2101512
State: California
State Cert. No.: 1903
Date Reported: 2/19/01

Client Sample ID: A-EFF SPL Sample ID: 01020412-03A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

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

Client Sample ID A-INF **Collected:** 2/13/01 4:30:00 **SPL Sample ID:** 01020412-01

Site: 7-0104,21011100

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR				**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0		1		02/15/01 16:45	FB	569481
Toluene	1.1		1.0		1		02/15/01 16:45	FB	569481
Ethylbenzene	ND		1.0		1		02/15/01 16:45	FB	569481
m,p-Xylene	ND		1.0		1		02/15/01 16:45	FB	569481
o-Xylene	ND		1.0		1		02/15/01 16:45	FB	569481
Xylenes,Total	ND		1.0		1		02/15/01 16:45	FB	569481
Surr: 1,4-Difluorobenzene	95.2	%	20-150		1		02/15/01 16:45	FB	569481
Surr: 4-Bromofluorobenzene	104	%	58-139		1		02/15/01 16:45	FB	569481
TOTAL PETROLEUM PRODUCT IN AIR				**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	31		10		1		02/15/01 16:45	FB	569488
Surr: 1,4-Difluorobenzene	109	%	62-144		1		02/15/01 16:45	FB	569488
Surr: 4-Bromofluorobenzene	115	%	44-153		1		02/15/01 16:45	FB	569488

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 A-INT **Collected:** 2/13/01 4:30:00 **SPL Sample ID:** 01020412-02

Site: 7-0104,21011100

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR				**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0		1		02/15/01 17:15	FB	569482
Toluene	ND		1.0		1		02/15/01 17:15	FB	569482
Ethylbenzene	ND		1.0		1		02/15/01 17:15	FB	569482
m,p-Xylene	ND		1.0		1		02/15/01 17:15	FB	569482
o-Xylene	ND		1.0		1		02/15/01 17:15	FB	569482
Xylenes,Total	ND		1.0		1		02/15/01 17:15	FB	569482
Surr: 1,4-Difluorobenzene	96.8	%	20-150		1		02/15/01 17:15	FB	569482
Surr: 4-Bromofluorobenzene	94.9	%	58-139		1		02/15/01 17:15	FB	569482
TOTAL PETROLEUM PRODUCT IN AIR				**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10		1		02/15/01 17:15	FB	569489
Surr: 1,4-Difluorobenzene	113	%	62-144		1		02/15/01 17:15	FB	569489
Surr: 4-Bromofluorobenzene	114	%	44-153		1		02/15/01 17:15	FB	569489

Sonia West

West, Sonia
Project Manager

Qualifiers:
ND/U - Not Detected at the Reporting Limit
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>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 A-EFF **Collected:** 2/13/01 4:30:00 **SPL Sample ID:** 01020412-03

Site: 7-0104,21011100

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR				**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0		1		02/15/01 17:44	FB	569483
Toluene	ND		1.0		1		02/15/01 17:44	FB	569483
Ethylbenzene	ND		1.0		1		02/15/01 17:44	FB	569483
m,p-Xylene	ND		1.0		1		02/15/01 17:44	FB	569483
o-Xylene	ND		1.0		1		02/15/01 17:44	FB	569483
Xylenes,Total	ND		1.0		1		02/15/01 17:44	FB	569483
Surr: 1,4-Difluorobenzene	93.8	%	20-150		1		02/15/01 17:44	FB	569483
Surr: 4-Bromofluorobenzene	100	%	58-139		1		02/15/01 17:44	FB	569483
TOTAL PETROLEUM PRODUCT IN AIR				**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10		1		02/15/01 17:44	FB	569490
Surr: 1,4-Difluorobenzene	110	%	62-144		1		02/15/01 17:44	FB	569490
Surr: 4-Bromofluorobenzene	115	%	44-153		1		02/15/01 17:44	FB	569490

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.

2506-11X

Analysis: Purgeable Aromatics in Air
Method: SW8020A
WorkOrder: 01020412
Lab Batch ID: R29723

Method Blank

RunID: HP_P_010215A-569480 Units: mg/m³
Analysis Date: 02/15/2001 16:16 Analyst: FB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01020412-01A	A-INF
01020412-02A	A-INT
01020412-03A	A-EFF

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	94.2	20-150
Surr: 4-Bromofluorobenzene	98.7	58-139

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010215A-569479 Units: mg/m³
Analysis Date: 02/15/2001 15:17 Analyst: FB

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	64	53	83	64	54	84	0.8	34	37	117
Ethylbenzene	88	64	73	88	56	64	13.7	35	56	115
Toluene	80	60	75	80	56	70	8.1	30	25	113
m,p-Xylene	88	63	71	88	57	65	9.3	35	12	114
o-Xylene	88	63	72	88	55	63	12.7	35	15	109
Xylenes,Total	176	126	72	176	112	64	11.8	35	12	114

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

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

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

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Total Petroleum Product in Air
Method: SW8015B

WorkOrder: 01020412
Lab Batch ID: R29724

Method Blank

RunID: HP_P_010215B-569487 Units: mg/m³
Analysis Date: 02/15/2001 16:16 Analyst: FB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01020412-01A	A-INF
01020412-02A	A-INT
01020412-03A	A-EFF

Analyte	Result	Rep Limit
TPH Air	ND	10
Surr: 1,4-Difluorobenzene	108.3	62-144
Surr: 4-Bromofluorobenzene	111.2	44-153

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010215B-569486 Units: mg/m³
Analysis Date: 02/15/2001 15:17 Analyst: FB

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
TPH Air	770	610	79	770	540	70	12.4	30	40	140

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

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

Sample Receipt Checklist

And

Chain of Custody

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

Sample Receipt Checklist

Workorder:	01020412	Received by:	Estrada, Ruben
Date and Time Received:	2/15/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	AMBIENT		

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 ☑		

010204?2

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. _____ Page 1 of 1

Exxon Engineer: DARIN ROUSE Phone: (925) 246-8768
Consultant Co. Name ERI Contact: Jim CHAPPEL
Address: 73 DIGITAL DR, SUITE 100 Fax: (415) 382-1856
NOVATO, CA 94949
RAS #: 7-0104 Facility/State ID # (TN Only): _____
AFE # (Terminal Only): _____ Consultant Project #: 2506-11X
Location: 1725 PARK STREET (City) ALAMEDA (State) CA
☐ EE ☐ C&M ☐ SDT
Consultant Work Release #: 21011100
Sampled By: COREY WEIAND

SAMPLE I.D.	DATE	TIME	COMP	GRAB	MATRIX H_2O	MATRIX SOIL	MATRIX AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 DRO ☐ / 8015 GRO	BTEX 8020 / 602 ☐	MTBE 8020 ☐ 8260 ☐	OXYGENATES (7) 8260 ☐	O&G 1R 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 ☐	OTHER: PURGEABLE HYDROCARBON 8010 ☐ 601 ☐	TPH/IR 418.1 ☐	TOX/TOH ☐
A-INF	2/13/01	1630		X			X		—	1	1L	X	X															
A-INT	"	1630		X			X		—	1	1L	X	X															
A-EFF	"	1630		X			X		—	1	1L	X	X															

RUSH

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

EXXON UST CONTRACT NO. C41483

SPECIAL DETECTION LIMITS (Specify)

REMARKS:

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ ☐ EDD

FAX ☐ ☐ FAX C-O-C W/REPORT

QA/QC Level
Standard ☐ CLP ☐ Other ☐ _____

LAB USE ONLY Lot # 150 (NW) Storage Location

WORK ORDER #: 010204?2 LAB WORK RELEASE #:

CUSTODY RECORD

	Relinquished By Sampler:	Date	Time	Received By:
1	ERI	12/14/01	0800	
2	Relinquished:	Date	Time	Received By:
3	Relinquished:	Date	Time	Received By:
		2-15-01	1000	Way Bill #: Cooler Temp: AMBIENT

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

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01030453

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:	2506-11X
Site:	7-0104,21011100
Site Address:	
PO Number:	LWR#21012120
State:	California
State Cert. No.:	1903
Date Reported:	3/22/01

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

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

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

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

3/22/01
Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01030453

Report To: Environmental Resolution, Inc.
Jim Chappell
73 Digital Drive Suite 100

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

Fax To: Environmental Resolution, Inc.
Jim Chappell fax : (415) 382-1856

Project Name: 2506-11X
Site: 7-0104,21011100
Site Address:

PO Number: LWR#21012120
State: California
State Cert. No.: 1903
Date Reported: 3/22/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
A-INF	01030453-01	Air	3/13/01 11:30:00 AM	3/15/01 10:00:00 AM		☐
INT	01030453-02	Air	3/13/01 11:30:00 AM	3/15/01 10:00:00 AM		☐
EFF	01030453-03	Air	3/13/01 11:30:00 AM	3/15/01 10:00:00 AM		☐

Sonia West

3/22/01
Date

Sonia West
Senior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01030453

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: 2506-11X
Site: 7-0104,21011100
Site Address:

PO Number: LWR#21012120
State: California
State Cert. No.: 1903
Date Reported: 3/22/01

Client Sample ID: A-INF SPL Sample ID: 01030453-01A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	6.1	5.0	1.9	1.5
Toluene	15	5.0	3.9	1.3
Ethylbenzene	ND	5.0	ND	1.1
m,p-Xylene	ND	5.0	ND	1.1
o-Xylene	ND	5.0	ND	1.1
Xylenes,Total	ND	5.0	ND	1.1
TPH Air	1300	50	360	14

Client Sample ID: A-INT SPL Sample ID: 01030453-02A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	16	10	4.5	2.8

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01030453

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: 2506-11X
Site: 7-0104,21011100
Site Address:

PO Number: LWR#21012120
State: California
State Cert. No.: 1903
Date Reported: 3/22/01

Client Sample ID: A-EFF SPL Sample ID: 01030453-03A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	11	10	3.1	2.8

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

Client Sample ID A-INF **Collected:** 3/13/01 11:30:00 **SPL Sample ID:** 01030453-01

Site: 7-0104,21011100

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR				**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	6.1		5.0		5		03/15/01 18:01	FB	602726
Toluene	15		5.0		5		03/15/01 18:01	FB	602726
Ethylbenzene	ND		5.0		5		03/15/01 18:01	FB	602726
m,p-Xylene	ND		5.0		5		03/15/01 18:01	FB	602726
o-Xylene	ND		5.0		5		03/15/01 18:01	FB	602726
Xylenes,Total	ND		5.0		5		03/15/01 18:01	FB	602726
Surr: 1,4-Difluorobenzene	93.3	%	20-150		5		03/15/01 18:01	FB	602726
Surr: 4-Bromofluorobenzene	93.4	%	58-139		5		03/15/01 18:01	FB	602726
TOTAL PETROLEUM PRODUCT IN AIR				**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	1300		50		5		03/15/01 18:01	FB	602802
Surr: 1,4-Difluorobenzene	106	%	62-144		5		03/15/01 18:01	FB	602802
Surr: 4-Bromofluorobenzene	106	%	44-153		5		03/15/01 18:01	FB	602802

Sonia West

Sonia West
Project Manager

Qualifiers:

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

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

Client Sample ID A-INT **Collected:** 3/13/01 11:30:00 **SPL Sample ID:** 01030453-02

Site: 7-0104,21011100

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR				**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0		1		03/15/01 18:31	FB	602728
Toluene	ND		1.0		1		03/15/01 18:31	FB	602728
Ethylbenzene	ND		1.0		1		03/15/01 18:31	FB	602728
m,p-Xylene	ND		1.0		1		03/15/01 18:31	FB	602728
o-Xylene	ND		1.0		1		03/15/01 18:31	FB	602728
Xylenes,Total	ND		1.0		1		03/15/01 18:31	FB	602728
Surr: 1,4-Difluorobenzene	94.1	%	20-150		1		03/15/01 18:31	FB	602728
Surr: 4-Bromofluorobenzene	95.4	%	58-139		1		03/15/01 18:31	FB	602728
TOTAL PETROLEUM PRODUCT IN AIR				**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	16		10		1		03/15/01 18:31	FB	602803
Surr: 1,4-Difluorobenzene	112	%	62-144		1		03/15/01 18:31	FB	602803
Surr: 4-Bromofluorobenzene	118	%	44-153		1		03/15/01 18:31	FB	602803

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID A-EFF **Collected:** 3/13/01 11:30:00 **SPL Sample ID:** 01030453-03

Site: 7-0104,21011100

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR				**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0		1		03/15/01 19:00	FB	602729
Toluene	ND		1.0		1		03/15/01 19:00	FB	602729
Ethylbenzene	ND		1.0		1		03/15/01 19:00	FB	602729
m,p-Xylene	ND		1.0		1		03/15/01 19:00	FB	602729
o-Xylene	ND		1.0		1		03/15/01 19:00	FB	602729
Xylenes,Total	ND		1.0		1		03/15/01 19:00	FB	602729
Surr: 1,4-Difluorobenzene	93.5	%	20-150		1		03/15/01 19:00	FB	602729
Surr: 4-Bromofluorobenzene	98.1	%	58-139		1		03/15/01 19:00	FB	602729
TOTAL PETROLEUM PRODUCT IN AIR				**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	11		10		1		03/15/01 19:00	FB	602804
Surr: 1,4-Difluorobenzene	119	%	62-144		1		03/15/01 19:00	FB	602804
Surr: 4-Bromofluorobenzene	121	%	44-153		1		03/15/01 19:00	FB	602804

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

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

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Purgeable Aromatics in Air
Method: SW8020A
WorkOrder: 01030453
Lab Batch ID: R31425

Method Blank

RunID: HP_P_010314A-601303 Units: mg/m³
Analysis Date: 03/14/2001 14:47 Analyst: FB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01030453-01A	A-INF
01030453-02A	A-INT
01030453-03A	A-EFF

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	93.5	20-150
Surr: 4-Bromofluorobenzene	101.1	58-139

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010314A-601300 Units: mg/m³
Analysis Date: 03/14/2001 13:47 Analyst: FB

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
enzene	64	65	101	64	61	95	6.2	34	37	117
thylbenzene	88	83	94	88	76	86	8.9	35	56	115
Methyl tert-butyl ether	364	460	126	364	500	138	8.9	30	30	175
oluene	80	75	94	80	71	89	5.3	30	25	113
,p-Xylene	88	82	93	88	76	86	8.1	35	12	114
o-Xylene	88	80	91	88	76	86	5.4	35	15	109
Xylenes,Total	176	162	92	176	152	86	6.4	35	12	114

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

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

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

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Total Petroleum Product in Air
Method: SW8015B
WorkOrder: 01030453
Lab Batch ID: R31428

Method Blank

RunID: HP_P_010314B-601361 Units: mg/m³
Analysis Date: 03/14/2001 14:47 Analyst: FB

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01030453-01A	A-INF
01030453-02A	A-INT
01030453-03A	A-EFF

Analyte	Result	Rep Limit
TPH Air	ND	10
Surr: 1,4-Difluorobenzene	110.1	62-144
Surr: 4-Bromofluorobenzene	114.5	44-153

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010314B-601359 Units: mg/m³
Analysis Date: 03/14/2001 13:47 Analyst: FB

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
TPH Air	770	670	88	770	690	89	1.8	30	40	140

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

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

Sample Receipt Checklist

And

Chain of Custody

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. _____ Page _____ of _____

Exxon Engineer: DAVID ROUSE Phone: (925) 246-8768

Consultant Co. Name: ERI Contact: JIM CHAPPEL

Address: 73 DIGITAL DR SUITE 100 Fax: (415) 382-1856

NOVATO, CA 94949

RAS #: 7-0184 Facility/State ID # (TN Only): _____

AFE # (Terminal Only): _____ Consultant Project #: 2506-11X

Location: 1725 PARK ST. (City) ALAMEDA (State) CA

☐ EE ☐ C&M ☐ SDT

Consultant Work Release #: 210111 00

Sampled By: COREY WEIAND

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX H_2O	MATRIX SOIL	MATRIX AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 DRO ☐	TPH/GC 8015 GRO X	BTEX 8020 ☐	BTEX 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 ☐
A-INF	3/13/01	1130		X			X		—	1	1L	X		X																
A-INT	1/1	1/1		X			X		—	1	1L	X		X																
A-EFF	1/1	1/1		X			X		—	1	1L	X		X																

RUSH

TAT

24 HR. ____* 72 HR. ____*

48 HR. ____* 96 HR. ____*

8 Business X *Contact US Prior to Sending Sample

Other ____

EXXON UST CONTRACT NO. C41483

SPECIAL DETECTION LIMITS (Specify)

REMARKS: Archive

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ ☐ EDD

FAX ☐ ☐ FAX C-O-C W/REPORT

QA/QC Level

Standard ☐ CLP ☐ Other ☐ _____

LAB USE ONLY Lot # 150 NO Storage Location

WORK ORDER # 010 30453 LAB WORK RELEASE #:

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler: ERI	3/14/01	07:30	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: Waybill #

3/15/01 1000

Cooler Temp: AM

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:	01030453	Received By:	RE
Date and Time Received:	3/15/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	AMBIENT	Chilled by:	Not Chilled

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

SPL Representative: **Contact Date & Time:**

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01040787

Report To:		Project Name:	2506-11X
Environmental Resolution, Inc.		Site:	7-0104
Jim Chappell		Site Address:	1725 Park Street
73 Digital Drive Suite 100			Almeda CA
Novato		PO Number:	EWR#21040341
California		State:	California
94949-		State Cert. No.:	1903
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	4/30/01

This Report Contains A Total Of 10 Pages

Excluding This Page

And

Chain Of Custody

4/30/01

Date

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01040787

Report To:		Project Name:	2506-11X	
Environmental Resolution, Inc.		Site:	7-0104	
Jim Chappell		Site Address:	1725 Park Street	
73 Digital Drive Suite 100			Almeda	CA
Novato		PO Number:	EWR#21040341	
California		State:	California	
94949-		State Cert. No.:		
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	4/30/01	

Please note that your sample "A-EFF" was detected for Total Petroleum Hydrocarbons (TPH) by 8015B. However, your sample "A-INF" was not detected for TPH. The laboratory checked all sample containers and found that they were correctly labeled within the laboratory.

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

West, Sonia
Senior Project Manager

5/1/01
Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01040787

Report To: Environmental Resolution, Inc.
Jim Chappell
73 Digital Drive Suite 100

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

Fax To: Environmental Resolution, Inc.
Jim Chappell fax : (415) 382-1856

Project Name: 2506-11X
Site: 7-0104
Site Address: 1725 Park Street
Almeda CA
PO Number: EWR#21040341
State: California
State Cert. No.: 1903
Date Reported: 4/30/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
A-INF	01040787-01	Air	4/25/01 1:30:00 PM	4/26/01 9:30:00 AM		☐
A-INT	01040787-02	Air	4/25/01 1:30:00 PM	4/26/01 9:30:00 AM		☐
A-EFF	01040787-03	Air	4/25/01 1:30:00 PM	4/26/01 9:30:00 AM		☐

Sonia West 4/30/01

Sonia West Date
Senior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01040787

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:	2506-11X	
	Site:	7-0104	
	Site Address:	1725 Park Street Almeda	CA
	PO Number:	EWR#21040341	
	State:	California	
	State Cert. No.:	1903	
	Date Reported:	4/30/01	

Client Sample ID: A-INF SPL Sample ID: 01040787-01A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

Client Sample ID: A-INT SPL Sample ID: 01040787-02A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01040787

Report To:		Project Name:	2506-11X	
Environmental Resolution, Inc.		Site:	7-0104	
Jim Chappell		Site Address:	1725 Park Street	
73 Digital Drive Suite 100			Almeda	CA
Novato		PO Number:	EWR#21040341	
California		State:	California	
94949-		State Cert. No.:	1903	
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	4/30/01	

Client Sample ID: A-EFF **SPL Sample ID:** 01040787-03A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	26	10	7.3	2.8

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

Client Sample ID A-INF **Collected:** 4/25/01 1:30:00 **SPL Sample ID:** 01040787-01

Site: 7-0104

Analyses/Method	Result		Rep.Limit		Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR				**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0		1		04/26/01 16:05	TM	652714
Toluene	ND		1.0		1		04/26/01 16:05	TM	652714
Ethylbenzene	ND		1.0		1		04/26/01 16:05	TM	652714
m,p-Xylene	ND		1.0		1		04/26/01 16:05	TM	652714
o-Xylene	ND		1.0		1		04/26/01 16:05	TM	652714
Xylenes,Total	ND		1.0		1		04/26/01 16:05	TM	652714
Surr: 1,4-Difluorobenzene	96.9	%	20-150		1		04/26/01 16:05	TM	652714
Surr: 4-Bromofluorobenzene	96.9	%	58-139		1		04/26/01 16:05	TM	652714
TOTAL PETROLEUM PRODUCT IN AIR				**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10		1		04/26/01 16:05	TM	652875
Surr: 1,4-Difluorobenzene	110	%	62-144		1		04/26/01 16:05	TM	652875
Surr: 4-Bromofluorobenzene	111	%	44-153		1		04/26/01 16:05	TM	652875

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID A-INT **Collected:** 4/25/01 1:30:00 **SPL Sample ID:** 01040787-02

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR			**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0	1		04/26/01 16:35	TM	652715
Toluene	ND		1.0	1		04/26/01 16:35	TM	652715
Ethylbenzene	ND		1.0	1		04/26/01 16:35	TM	652715
m,p-Xylene	ND		1.0	1		04/26/01 16:35	TM	652715
o-Xylene	ND		1.0	1		04/26/01 16:35	TM	652715
Xylenes,Total	ND		1.0	1		04/26/01 16:35	TM	652715
Surr: 1,4-Difluorobenzene	96.6	%	20-150	1		04/26/01 16:35	TM	652715
Surr: 4-Bromofluorobenzene	105	%	58-139	1		04/26/01 16:35	TM	652715
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		04/26/01 16:35	TM	652876
Surr: 1,4-Difluorobenzene	111	%	62-144	1		04/26/01 16:35	TM	652876
Surr: 4-Bromofluorobenzene	113	%	44-153	1		04/26/01 16:35	TM	652876

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID A-EFF **Collected:** 4/25/01 1:30:00 **SPL Sample ID:** 01040787-03

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR			**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0	1		04/26/01 17:04	TM	652716
Toluene	ND		1.0	1		04/26/01 17:04	TM	652716
Ethylbenzene	ND		1.0	1		04/26/01 17:04	TM	652716
m,p-Xylene	ND		1.0	1		04/26/01 17:04	TM	652716
o-Xylene	ND		1.0	1		04/26/01 17:04	TM	652716
Xylenes,Total	ND		1.0	1		04/26/01 17:04	TM	652716
Surr: 1,4-Difluorobenzene	94.3	%	20-150	1		04/26/01 17:04	TM	652716
Surr: 4-Bromofluorobenzene	99.6	%	58-139	1		04/26/01 17:04	TM	652716
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	26		10	1		04/26/01 17:04	TM	652878
Surr: 1,4-Difluorobenzene	110	%	62-144	1		04/26/01 17:04	TM	652878
Surr: 4-Bromofluorobenzene	113	%	44-153	1		04/26/01 17:04	TM	652878

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

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

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Purgeable Aromatics in Air
Method: SW8020A
WorkOrder: 01040787
Lab Batch ID: R34176

Method Blank

RunID: HP_P_010426A-652708 Units: mg/m³
Analysis Date: 04/26/2001 12:39 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01040787-01A	A-INF
01040787-02A	A-INT
01040787-03A	A-EFF

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	95.6	20-150
Surr: 4-Bromofluorobenzene	97.5	58-139

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010426A-652706 Units: mg/m³
Analysis Date: 04/26/2001 11:41 Analyst: TM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	64	67	104	64	64	100	4.4	34	37	117
Ethylbenzene	88	81	92	88	78	88	4.0	35	56	115
Toluene	80	77	96	80	69	87	10.0	30	25	113
m,p-Xylene	88	82	93	88	77	87	5.8	35	12	114
o-Xylene	88	79	90	88	76	86	4.3	35	15	109
Xylenes,Total	176	161	91	176	153	87	5.1	35	12	114

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

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

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

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Total Petroleum Product in Air
Method: SW8015B
WorkOrder: 01040787
Lab Batch ID: R34181

Method Blank

RunID: HP_P_010426B-652836 Units: mg/m³
Analysis Date: 04/26/2001 12:39 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01040787-01A	A-INF
01040787-02A	A-INT
01040787-03A	A-EFF

Analyte	Result	Rep Limit
TPH Air	ND	10
Surr: 1,4-Difluorobenzene	106.7	62-144
Surr: 4-Bromofluorobenzene	107.8	44-153

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010426B-652832 Units: mg/m³
Analysis Date: 04/26/2001 11:41 Analyst: TM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
TPH Air	770	710	92	770	700	90	2.1	30	40	140

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

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

Sample Receipt Checklist

And

Chain of Custody

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

Sample Receipt Checklist

Workorder:	01040787	Received By:	RT
Date and Time Received:	4/26/01 9:30:00 AM	Carrier name:	FedEx
Temperature:	Ambient	Chilled by:	Not Chilled

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

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. 01040787 Page 1 of 1

Exxon Engineer: DARIN ROUSE Phone: (925) 246-8768
Consultant Co. Name ERI Contact: JIM CHAPPEL
Address: 73 DIGITAL DR. SUITE 100 Fax: (415) 382-1856
NOVATO, CA 94949
RAS #: 7-0104 Facility/State ID # (TN Only):
AFE # (Terminal Only): ~~1725 PARK ST.~~ Consultant Project #: 2506-11X
Location: 1725 PARK ST. (City) ALAMEDA (State) CA
☐ EE ☐ C&M ☐ SDT
Consultant Work Release #: 21011100
Sampled By: COREY WEIAND

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX H_2O	MATRIX SOIL	MATRIX AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GRO ☐ X	BTEX 8020 ☐ X	MTBE 8020 ☐ 8260 ☐	OXYGENATES (7) 8260 ☐	O&G IR 413.1 ☐ GRAV. 413.2 ☐	VOL. 8260 ☐ 624 ☐	SEMI-VOL 8270 ☐ 625 ☐	PNA/PAH 8100 ☐ 8270 ☐	PCB/PEST 8081/8082 ☐ PCB ONLY ☐	TCLP FULL ☐ VOA ☐ SEMIVOA ☐ 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 ☐
A-INF	9/25/01	1330		X			X		—	1	1L	X	X															
A-INT	1/	1		X			X		—	1	1L	X	X															
A-EFF	1/	1		X			X		—	1	1L	X	X															

RUSH

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

EXXON UST CONTRACT NO. C41483

SPECIAL DETECTION LIMITS (Specify)

REMARKS:

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

LAB USE ONLY Lot # Storage Location
WORK ORDER # 01040787 LAB WORK RELEASE #:

QA/QC Level
Standard X CLP ☐ Other ☐ ____

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler: ERI			Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	9-26-01	0930	Received By: Way Bill #: Cooler Temp: Ambient

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

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01050344

Report To:		Project Name:	2506-11X
Environmental Resolution, Inc.		Site:	7-0104
Jim Chappell		Site Address:	1725 Park Street
73 Digital Drive Suite 100			Almeda CA
Novato		PO Number:	EWR#21040341
California		State:	California
94949-		State Cert. No.:	1903
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	5/15/01

This Report Contains A Total Of 10 Pages

Excluding This Page

And

Chain Of Custody

5/15/01

Date

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01050344

Report To:		Project Name:	2506-11X	
Environmental Resolution, Inc.		Site:	7-0104	
Jim Chappell		Site Address:	1725 Park Street	
73 Digital Drive Suite 100			Almeda	CA
Novato		PO Number:	EWR#21040341	
California		State:	California	
94949-		State Cert. No.:	1903	
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	5/15/01	

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

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

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

 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.

5/15/01

Sonia West
Senior Project Manager

Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01050344

Report To: Environmental Resolution, Inc.
Jim Chappell
73 Digital Drive Suite 100

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

Fax To: Environmental Resolution, Inc.
Jim Chappell fax : (415) 382-1856

Project Name: 2506-11X
Site: 7-0104
Site Address: 1725 Park Street
Almeda CA
PO Number: EWR#21040341
State: California
State Cert. No.: 1903
Date Reported: 5/15/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
A-INF	01050344-01	Air	5/9/01 2:00:00 PM	5/11/01 10:00:00 AM		☐
A-INT	01050344-02	Air	5/9/01 2:00:00 PM	5/11/01 10:00:00 AM		☐
A-EFF	01050344-03	Air	5/9/01 2:00:00 PM	5/11/01 10:00:00 AM		☐

Sonia West

5/15/01
Date

Sonia West
Senior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01050344

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: 2506-11X
Site: 7-0104
Site Address: 1725 Park Street
Almeda CA
PO Number: EWR#21040341
State: California
State Cert. No.: 1903
Date Reported: 5/15/01

Client Sample ID: A-INF **SPL Sample ID:** 01050344-01A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

Client Sample ID: A-INT **SPL Sample ID:** 01050344-02A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01050344

Report To:		Project Name:	2506-11X
Environmental Resolution, Inc.		Site:	7-0104
Jim Chappell		Site Address:	1725 Park Street
73 Digital Drive Suite 100			Almeda CA
Novato		PO Number:	EWR#21040341
California		State:	California
94949-		State Cert. No.:	1903
ph: (415) 382-9105 fax: (415) 382-1856		Date Reported:	5/15/01

Client Sample ID: A-EFF

SPL Sample ID: 01050344-03A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

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

Client Sample ID A-INF **Collected:** 5/9/01 2:00:00 P **SPL Sample ID:** 01050344-01

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR			**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0	1		05/11/01 14:28	TM	669648
Toluene	ND		1.0	1		05/11/01 14:28	TM	669648
Ethylbenzene	ND		1.0	1		05/11/01 14:28	TM	669648
m,p-Xylene	ND		1.0	1		05/11/01 14:28	TM	669648
o-Xylene	ND		1.0	1		05/11/01 14:28	TM	669648
Xylenes,Total	ND		1.0	1		05/11/01 14:28	TM	669648
Surr: 1,4-Difluorobenzene	94.6	%	20-150	1		05/11/01 14:28	TM	669648
Surr: 4-Bromofluorobenzene	102	%	58-139	1		05/11/01 14:28	TM	669648
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		05/11/01 14:28	TM	669769
Surr: 1,4-Difluorobenzene	110	%	62-144	1		05/11/01 14:28	TM	669769
Surr: 4-Bromofluorobenzene	113	%	44-153	1		05/11/01 14:28	TM	669769

Sonia West

Sonia West
Project Manager

Qualifiers:

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

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

Client Sample ID A-INT **Collected:** 5/9/01 2:00:00 P **SPL Sample ID:** 01050344-02

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR			**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0	1		05/11/01 14:57	TM	669649
Toluene	ND		1.0	1		05/11/01 14:57	TM	669649
Ethylbenzene	ND		1.0	1		05/11/01 14:57	TM	669649
m,p-Xylene	ND		1.0	1		05/11/01 14:57	TM	669649
o-Xylene	ND		1.0	1		05/11/01 14:57	TM	669649
Xylenes,Total	ND		1.0	1		05/11/01 14:57	TM	669649
Surr: 1,4-Difluorobenzene	94.3	%	20-150	1		05/11/01 14:57	TM	669649
Surr: 4-Bromofluorobenzene	100	%	58-139	1		05/11/01 14:57	TM	669649
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		05/11/01 14:57	TM	669770
Surr: 1,4-Difluorobenzene	110	%	62-144	1		05/11/01 14:57	TM	669770
Surr: 4-Bromofluorobenzene	113	%	44-153	1		05/11/01 14:57	TM	669770

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID A-EFF **Collected:** 5/9/01 2:00:00 P **SPL Sample ID:** 01050344-03

Site: 7-0104

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR			**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0	1		05/11/01 15:27	TM	669650
Toluene	ND		1.0	1		05/11/01 15:27	TM	669650
Ethylbenzene	ND		1.0	1		05/11/01 15:27	TM	669650
m,p-Xylene	ND		1.0	1		05/11/01 15:27	TM	669650
o-Xylene	ND		1.0	1		05/11/01 15:27	TM	669650
Xylenes,Total	ND		1.0	1		05/11/01 15:27	TM	669650
Surr: 1,4-Difluorobenzene	94.8	%	20-150	1		05/11/01 15:27	TM	669650
Surr: 4-Bromofluorobenzene	102	%	58-139	1		05/11/01 15:27	TM	669650
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		05/11/01 15:27	TM	669771
Surr: 1,4-Difluorobenzene	110	%	62-144	1		05/11/01 15:27	TM	669771
Surr: 4-Bromofluorobenzene	113	%	44-153	1		05/11/01 15:27	TM	669771

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

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

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Purgeable Aromatics in Air
Method: SW8020A

WorkOrder: 01050344
Lab Batch ID: R35104

Method Blank

RunID: HP_P_010511A-669643 Units: mg/m³
Analysis Date: 05/11/2001 11:30 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01050344-01A	A-INF
01050344-02A	A-INT
01050344-03A	A-EFF

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	94.8	20-150
Surr: 4-Bromofluorobenzene	97.0	58-139

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010511A-669641 Units: mg/m³
Analysis Date: 05/11/2001 10:30 Analyst: TM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	64	60	94	64	57	90	4.3	34	37	117
Ethylbenzene	88	73	83	88	67	76	8.2	35	56	115
Toluene	80	68	85	80	64	80	6.2	30	25	113
m,p-Xylene	88	74	84	88	67	76	10.5	35	12	114
o-Xylene	88	72	81	88	67	76	6.9	35	15	109
Xylenes,Total	176	146	83	176	134	76	8.6	35	12	114

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

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

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

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Total Petroleum Product in Air
Method: SW8015B

WorkOrder: 01050344
Lab Batch ID: R35113

Method Blank

RunID: HP_P_010511B-669764 Units: mg/m³
Analysis Date: 05/11/2001 11:30 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01050344-01A	A-INF
01050344-02A	A-INT
01050344-03A	A-EFF

Analyte	Result	Rep Limit
TPH Air	ND	10
Surr: 1,4-Difluorobenzene	106.8	62-144
Surr: 4-Bromofluorobenzene	108.4	44-153

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010511B-669762 Units: mg/m³
Analysis Date: 05/11/2001 10:30 Analyst: TM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
TPH Air	770	650	84	770	600	78	7.8	30	40	140

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

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

Sample Receipt Checklist

And

Chain of Custody

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

Sample Receipt Checklist

Workorder:	01050344	Received By:	RE
Date and Time Received:	5/11/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	AMBIENT	Chilled by:	Not Chilled

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

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

01050344

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. _____ Page 1 of 1

Exxon Engineer: DARIN ROUSE Phone: (925) 246-8768

Consultant Co. Name _____ Contact: JIM CHAPPEL

Address: 73 DIGITAL DR SUITE 100 Fax: (415) 382-1856

NOVATO, CA 94949

RAS #: 7-0104 Facility/State ID # (TN Only): _____

AFE # (Terminal Only): _____ Consultant Project #: 2506-11X

Location: 1725 PARK ST (City) ALAMEDA (State) CA

☐ EE ☐ C&M ☐ SDT

Consultant Work Release #: 210111 00

Sampled By: COREY WEIAND

SAMPLE I.D.	DATE	TIME	COMP	GRAB	MATRIX H_2O	MATRIX SOIL	MATRIX AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	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 ☐
A-INF	5/9/01	1400		X			X		—	1	1L	X		X																
A-INT	〃	〃		X			X		—	1	1L	X		X																
A-EFF	〃	〃		X			X		—	1	1L	X		X																

RUSH

TAT

24 HR. ___* 72 HR. ___*

48 HR. ___* 96 HR. ___*

8 Business X *Contact US Prior to Sending Sample

Other ___

EXXON UST CONTRACT NO. C41483

SPECIAL DETECTION LIMITS (Specify)

REMARKS: 50 51b

8230611560294 REC

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ ☐ EDD

FAX ☐ ☐ FAX C-O-C W/REPORT

QA/QC Level

Standard X CLP ☐ Other ☐ _____

LAB USE ONLY Lot # Storage Location

Ambient

WORK ORDER # 01050344 LAB WORK RELEASE #:

CUSTODY RECORD

	Relinquished By Sampler:	Date	Time	Received By:
	ERI	5/9/01	16:00	
	Relinquished:	Date	Time	Received By:
	Relinquished:	Date	Time	Received By:

Way Bill #: 5/11/01 1000 Cooler Temp:

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

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01060173

Report To:		Project Name:	2506-11X
Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100		Site:	7-0104,
		Site Address:	
Novato California 94949-		PO Number:	EWR#21040341
		State:	California
		State Cert. No.:	1903
ph: (415) 382-9105	fax: (415) 382-1856	Date Reported:	6/8/01

This Report Contains A Total Of 10 Pages

Excluding This Page

And

Chain Of Custody

6/8/01

Date

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01060173

Report To:		**Project Name:**	2506-11X
Environmental Resolution, Inc.		**Site:**	7-0104,
Jim Chappell		**Site Address:**	
73 Digital Drive Suite 100			
Novato		**PO Number:**	EWR#21040341
California		**State:**	California
94949-		**State Cert. No.:**	1903
ph: (415) 382-9105	fax: (415) 382-1856	**Date Reported:**	6/8/01

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

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

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

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

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

6/8/01

Sonia West
Senior Project Manager

Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01060173

Report To: Environmental Resolution, Inc.
Jim Chappell
73 Digital Drive Suite 100

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

Fax To: Environmental Resolution, Inc.
Jim Chappell fax : (415) 382-1856

Project Name: 2506-11X
Site: 7-0104,
Site Address:

PO Number: EWR#21040341
State: California
State Cert. No.: 1903
Date Reported: 6/8/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
INF	01060173-01	Air	6/4/01 11:00:00 AM	6/6/01 10:00:00 AM		☐
INT	01060173-02	Air	6/4/01 11:00:00 AM	6/6/01 10:00:00 AM		☐
A-EFF	01060173-03	Air	6/4/01 11:00:00 AM	6/6/01 10:00:00 AM		☐

Sonia West

6/8/01
Date

onia West
enior Project Manager

Joel Grice
Laboratory Director

Ted Yen
Quality Assurance Officer

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01060173

Report To:		Project Name:	2506-11X
Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100 Novato California 94949- ph: (415) 382-9105 fax: (415) 382-1856		Site:	7-0104,
		Site Address:	
		PO Number:	EWR#21040341
		State:	California
		State Cert. No.:	1903
		Date Reported:	6/8/01

Client Sample ID: A-INF SPL Sample ID: 01060173-01A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	280	10	78	2.8

Client Sample ID: A-INT SPL Sample ID: 01060173-02A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01060173

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: 2506-11X
Site: 7-0104,
Site Address:

PO Number: EWR#21040341
State: California
State Cert. No.: 1903
Date Reported: 6/8/01

Client Sample ID: A-EFF **SPL Sample ID:** 01060173-03A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	ND	1.0	ND	0.26
Ethylbenzene	ND	1.0	ND	0.23
m,p-Xylene	ND	1.0	ND	0.23
o-Xylene	ND	1.0	ND	0.23
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

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

Client Sample ID A-INF **Collected:** 6/4/01 11:00:00 **SPL Sample ID:** 01060173-01

Site: 7-0104,

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR			**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0	1		06/06/01 20:36	TM	696540
Toluene	ND		1.0	1		06/06/01 20:36	TM	696540
Ethylbenzene	ND		1.0	1		06/06/01 20:36	TM	696540
m,p-Xylene	ND		1.0	1		06/06/01 20:36	TM	696540
o-Xylene	ND		1.0	1		06/06/01 20:36	TM	696540
Xylenes,Total	ND		1.0	1		06/06/01 20:36	TM	696540
Surr: 1,4-Difluorobenzene	92.8	%	20-150	1		06/06/01 20:36	TM	696540
Surr: 4-Bromofluorobenzene	97.9	%	58-139	1		06/06/01 20:36	TM	696540
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	280		10	1		06/06/01 20:36	TM	696600
Surr: 1,4-Difluorobenzene	94.5	%	62-144	1		06/06/01 20:36	TM	696600
Surr: 4-Bromofluorobenzene	93.4	%	44-153	1		06/06/01 20:36	TM	696600

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID A-INT **Collected:** 6/4/01 11:00:00 **SPL Sample ID:** 01060173-02

Site: 7-0104,

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR			**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0	1		06/06/01 21:06	TM	696544
Toluene	ND		1.0	1		06/06/01 21:06	TM	696544
Ethylbenzene	ND		1.0	1		06/06/01 21:06	TM	696544
m,p-Xylene	ND		1.0	1		06/06/01 21:06	TM	696544
o-Xylene	ND		1.0	1		06/06/01 21:06	TM	696544
Xylenes,Total	ND		1.0	1		06/06/01 21:06	TM	696544
Surr: 1,4-Difluorobenzene	91.9	%	20-150	1		06/06/01 21:06	TM	696544
Surr: 4-Bromofluorobenzene	97.0	%	58-139	1		06/06/01 21:06	TM	696544
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		06/06/01 21:06	TM	696601
Surr: 1,4-Difluorobenzene	104	%	62-144	1		06/06/01 21:06	TM	696601
Surr: 4-Bromofluorobenzene	114	%	44-153	1		06/06/01 21:06	TM	696601

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID A-EFF **Collected:** 6/4/01 11:00:00 **SPL Sample ID:** 01060173-03

Site: 7-0104,

Analyses/Method	Result		Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
PURGEABLE AROMATICS IN AIR			**MCL**	**SW8020A**		**Units: mg/m³**		
Benzene	ND		1.0	1		06/06/01 23:49	TM	696551
Toluene	ND		1.0	1		06/06/01 23:49	TM	696551
Ethylbenzene	ND		1.0	1		06/06/01 23:49	TM	696551
m,p-Xylene	ND		1.0	1		06/06/01 23:49	TM	696551
o-Xylene	ND		1.0	1		06/06/01 23:49	TM	696551
Xylenes,Total	ND		1.0	1		06/06/01 23:49	TM	696551
Surr: 1,4-Difluorobenzene	96.3	%	20-150	1		06/06/01 23:49	TM	696551
Surr: 4-Bromofluorobenzene	108	%	58-139	1		06/06/01 23:49	TM	696551
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		06/06/01 23:49	TM	696603
Surr: 1,4-Difluorobenzene	109	%	62-144	1		06/06/01 23:49	TM	696603
Surr: 4-Bromofluorobenzene	122	%	44-153	1		06/06/01 23:49	TM	696603

Sonia West

Sonia West
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)
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.

2506-11X

Analysis: Purgeable Aromatics in Air
Method: SW8020A

WorkOrder: 01060173
Lab Batch ID: R36624

Method Blank

RunID: HP_P_010606A-696513 Units: mg/m³
Analysis Date: 06/06/2001 15:40 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01060173-01A	A-INF
01060173-02A	A-INT
01060173-03A	A-EFF

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Methyl tert-butyl ether	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes,Total	ND	1.0
Surr: 1,4-Difluorobenzene	91.1	20-150
Surr: 4-Bromofluorobenzene	98.3	58-139

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010606A-696511 Units: mg/m³
Analysis Date: 06/06/2001 14:41 Analyst: TM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	64	70	109	64	66	103	5.6	34	37	117
Ethylbenzene	88	88	100	88	83	94	6.0	35	56	115
Methyl tert-butyl ether	364	550	152	364	570	155	1.9	30	30	175
Toluene	80	82	102	80	77	96	6.4	30	25	113
m,p-Xylene	88	87	99	88	81	92	6.7	35	12	114
o-Xylene	88	86	97	88	81	92	5.7	35	15	109
Xylenes,Total	176	173	98	176	162	92	6.6	35	12	114

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

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

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

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Total Petroleum Product in Air
Method: SW8015B

WorkOrder: 01060173
Lab Batch ID: R36626

Method Blank

RunID: HP_P_010606B-696591 Units: mg/m³
Analysis Date: 06/06/2001 15:40 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01060173-01A	A-INF
01060173-02A	A-INT
01060173-03A	A-EFF

Analyte	Result	Rep Limit
TPH Air	ND	10
Surr: 1,4-Difluorobenzene	105.4	62-144
Surr: 4-Bromofluorobenzene	109.3	44-153

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HP_P_010606B-696589 Units: mg/m³
Analysis Date: 06/06/2001 14:41 Analyst: TM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
TPH Air	770	780	101	770	720	93	7.6	30	40	140

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

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

Sample Receipt Checklist

And

Chain of Custody

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

Sample Receipt Checklist

Workorder:	01060173	Received By:	RE
Date and Time Received:	6/6/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	AMBIENT	Chilled by:	Not Chilled

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

SPL Representative: _____ **Contact Date & Time:** _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

01060173

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. _____ Page 1 of 1

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

Consultant Co. Name ERI Contact: Jim Chappel

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

Suite 100 Novato CA 94949

RAS #: 7-0104 Facility/State ID # (TN Only): _____

AFE # (Terminal Only): _____ Consultant Project #: 2506-11X

Location: 1725 Park St (City) Alameda (State) CA

☐ EE ☐ C&M ☐ SDT

Consultant Work Release #: 010111100

Sampled By: Sam

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX H_2O	MATRIX SOIL	MATRIX AIR	OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	TPH/GC 8015 GRO ☐	BTEX 8020 ☐	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 ☐
A-INF	6/4/01	11:00		X			X		—	1	1L Amb	X	X															
A-INT	"	"		X			X		—	1	1L Amb	X	X															
A EFF	"	"		X			X		—	1	1L Amb	X	X															

RUSH

TAT	SPECIAL DETECTION LIMITS (Specify)	REMARKS:
24 HR. ___* 72 HR. ___*		Ambient
48 HR. ___* 96 HR. ___*		
8 Business X *Contact US Prior to Sending Sample	EXXON UST CONTRACT NO. C41483	
Other ___	SPECIAL REPORTING REQUIREMENTS (Specify)	LAB USE ONLY Lot # Storage Location
QA/QC Level: Standard X CLP ☐ Other ☐ ___	PDF ☐ EDD ☐	NO
	FAX ☐ FAX C-O-C W/REPORT ☐	WORK ORDER #: 01060173 LAB WORK RELEASE #: 2104034

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler: Sam Clifford	6/5/01	19:00	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: Waybill #: Cooler Temp: 6/6/01 1000

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

ATTACHMENT C

AS/SVE SYSTEM OPERATION DATA PROVIDED BY PREVIOUS CONSULTANTS

OPERATIONAL DATA FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

		FIELD MEASUREMENTS			Laboratory Analytical Results		TPHg Removal	
Date	Sample ID	Hour Meter	Hours of Operation	Flow cfm	TPHg ppmv	Benzene ppmv	Per Period Pounds	Cumulative Pounds
2/16/98	System startup	1,583	0	---				
2/19/98	A-INF	1,652	69	48	< 2.4	< 0.031	<	< 0.1
	A-INT				< 2.4	< 0.031		
	A-EFF				< 2.4	< 0.031		
3/3/98	A-INF	1,828	176	50	< 2.4	< 0.031	<	< 0.2
	A-INT				< 2.4	< 0.031		
	A-EFF				< 2.4	< 0.031		
4/2/98	A-INF	2,184	356	52	< 2.4	< 0.031	<	< 0.5
	A-INT				< 2.4	< 0.031		
	A-EFF				< 2.4	< 0.031		
5/4/98	A-INF	2,538	354	131	17	0.44		< 5.8
	A-INT				< 2.4	< 0.031		
	A-EFF				< 2.4	< 0.031		
6/10/98	A-INF	2,940	402	131	12	0.047		< 10.0
	A-INT				4.2	< 0.031		
	A-EFF				< 2.4	< 0.031		
7/7/99	A-INF	2,940	0	131	76	2.6		< 10.0
	A-INT				---	---		
	A-EFF				< 2.4	< 0.031		
8/4/98	A-INF	3,248	308	131	34	0.94		< 19.1
	A-INT				8.8	0.27		
	A-EFF				10	< 0.031		
10/20/98	A-INF	3,249	1	131	210	6.0		< 19.3
	A-INT				< 2.4	< 0.031		
	A-EFF				< 2.4	< 0.031		
11/9/98	A-INF	3,464	215	131	13	0.056		< 21.7
	A-INT				< 2.4	< 0.031		
	A-EFF				< 2.4	< 0.031		
12/8/98	A-INF	3,798	334	131	3.1	0.034		< 22.7
	A-INT				< 2.4	< 0.031		
	A-EFF				< 2.4	< 0.031		
1/13/99	A-INF	4,264	466	131	12	< 0.031		< 27.5
	A-INT				5.6	< 0.031		
	A-EFF				< 2.4	< 0.031		
2/8/99	A-INF	4,600	336	131	< 12.1	< 0.16	<	< 31.1
	A-INT				< 12.1	< 0.16		
	A-EFF				< 12.1	< 0.16		
3/8/99	A-INF	4,919	319	131	2.7	< 0.031		< 31.8
	A-INT				< 2.4	< 0.031		

OPERATIONAL DATA FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-0104
:725 Park Street
Alameda, California

Date	Sample ID	FIELD MEASUREMENTS Hour Meter	Hours of Operation	Flow cfm	Laboratory Analytical Results TPHg ppmv	Benzene ppmv	TPHg Removal Per Period Pounds	Cumulative Pounds
	A-EFF				< 2.4	< 0.031		
4/5/99	A-INF	4,957	38	131	42.6	0.474		< 33.3
	A-INT				4.6	< 0.0314		
	A-EFF				< 2.84	< 0.0314		
5/6/99	A-INF	5,470	513	131	11.84	0.0872		< 38.6
	A-INT				4.20	< 0.0314		
	A-EFF				4.71	< 0.0314		
5/26/99	A-INF	5,799	329	131	---	---		< 42.0
	A-INT				18.03	< 0.031		
	A-EFF				11.98	< 0.031		
8/9/99	A-INF	5,799	0	118	240	1.60		< 42.0
	A-INT				< 2.84	< 0.0314		
	A-EFF				< 2.84	< 0.0314		
9/7/99	A-INF	6,275	476	109	10.6	0.0403		< 45.7
	A-INT				6.23	< 0.0314		
	A-EFF				3.74	< 0.0314		
10/12/99	A-INF	6,638	363	122	15	< 0.31		< 50.1
	A-INT				< 2.8	< 0.31		
	A-EFF				< 2.8	< 0.31		
12/9/99	A-INF	6,686	48	109	82	1.0		< 53.0
	A-INT				< 2.8	< 0.31		
	A-EFF				< 2.8	< 0.31		
2/8/00	A-INF	7,030	344	109	31	0.59		< 60.8
	A-INT				< 2.8	< 0.31		
	A-EFF				< 2.8	< 0.31		
3/24/00	System shutdown pending evaluation							
4/1/00	Environmental Resolutions Inc., assumed operation of the system.							

Notes: Data prior to April 1, 2000 provided by Delta Environmental Consultants, Inc.

A-INF	=	Influent vapor sample collected prior to biofilters.
A-INT1	=	Vapor sample collected after biofilters.
A-INT2	=	Vapor sample collected after 1st carbon vessel.
A-EFF	=	Vapor sample collected from effluent sample port.
cfm	=	Cubic feet per minute.
ppmv	=	Parts per million by volume
---	=	Not sampled/not measured.

ATTACHMENT D

ERI SOP-25 "HYDROCARBONS REMOVED FROM A VADOSE WELL"

HYDROCARBONS REMOVED FROM A VADOSE WELL
SOP-25
Rev. 0'C

Rev. 4/29/97

POUNDS OF HYDROCARBON IN AN VAPOR STREAM

INPUT DATA:
1) Vapor flow rate acfm (usually by Pitot tube)
2) Vapor pressure at the flow measuring device (in inches of H_2O) (use {-} for vacuum)
3) Vapor temperature at the flow measuring device.
4) Hydrocarbon content of vapor (usually in mg/M^3) for ppmv you need molecular weight.
5) Length of time (usually hours) over which flow rate occurred)

From periodic measurements, a calculation of total pounds of hydrocarbons removed from a well or from a system are calculated. The input data listed above are measured at a point in time. To calculate quantities removed, some assumptions must be made about what was happening between measurements. The following assumptions will be used for the sake of consistency:

ASSUMPTIONS:
1) Vapor flow for the period equals the average of the initial and final reading for the period.
2) Pressure and temperature for the entire period will be the final reading.
3) Hydrocarbon concentration for the period equals the average of the initial and final reading.
4) The hours of operation can be taken from an hour meter, an electric meter or will be assumed to be equal to the time between measurements.
5) If the unit is found down - try to determine how many hours it did operate and use the data taken for the previous period to make the calculations. Restart the unit and then take data to start the next period.

SAMPLE DATA AND CALCULATIONS

Date	Time	Temp deg F	Press in H_2O	HC conc mg/M3	Vapor flow acfm	Calc. lb. rem.
1/6/95	11:00	70	-46	2000	120	
1/7/95	13:00	55	-50	1350	90	
1/8/95	10:00	80	-13	750	100	7.4

Calculate the pounds of hydrocarbon removed from the system during the basis period from 13:00 (1:00 pm) on the 7th to 10 am on the 8th. Pressure and temperature of the measurements (at the flow meter) must be corrected to the P and T used to report the HC concentration (which are P = 1 atm and T = 70 deg F). 1 atm = 14.7psia, 760 mm Hg, or 407 in H_2O. $T_{abs} = 460 + T$ deg F

Hours of operation = 21, T = 80, P = -13, HC = (1350+750)/2 = 1050 mg/M^3, Flow = 95

$$21 \times 60 \times 95 \times \frac{(460+70)}{(460+80)} \times \frac{(407-13)}{407} \times \frac{28.3}{1000} \times \frac{1050}{1000} \times \frac{1}{454} = 7.4 \text{ lb}$$

$$\frac{\text{hr}}{\text{basis}} \times \frac{\text{min}}{\text{hr}} \times \frac{\text{cu ft}}{\text{min}} \times T_{Corr} \times P_{Corr} \times \frac{M^3}{\text{cu ft}} \times \frac{\text{g}}{M^3} \times \frac{\text{lb}}{\text{g}} = \frac{\text{lb}}{\text{basis}}$$

$$21 \times 60 \times 95 \times 0.98 \times 0.97 \times 0.0283 \times 1.050 \times 1/454 = 7.4 \text{ lb.}$$

cumulative lbs. (the running total) = the sum of all the previous periods.

Note: If results are given in ppm, an assumption about the molecular weight of the hydrocarbon must be made to get mg/M^3. ppmv x molecular wt. /24.1 = mg/M^3. (Use 102 for gasoline)