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Gene N. Ortega
Territory Manager
Global Remediation-US Retail

RO-448

ExxonMobil
Refining & Supply

March 15, 2002

MAR 27 2002

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 and Remediation Status Report, Fourth Quarter 2001***, dated March 15, 2002, for the above-referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of 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 and Remediation Status Report, Fourth Quarter 2001, dated March 15, 2002.

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

w/o attachment
Mr. Scott R. Graham, Environmental Resolutions, Inc.

ENVIRONMENTAL RESOLUTIONS, INC.

March 15, 2002
ERI 250611.R06

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

MAR 27 2002

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

Mr. Ortega:

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

GROUNDWATER MONITORING AND SAMPLING

On October 15, 2001, 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. The Groundwater Elevation Map is included as Plate 3.

Laboratory Analyses and Results

ERI submitted groundwater samples to Southern Petroleum Laboratories, Inc. (SPL), a California state-certified laboratory, under Chain-of-Custody protocol. The samples were analyzed for 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 also 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, ERI restarted the system 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 Siemans 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 used 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 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

On August 7, 2001, ERI shut down the AS/SVE system due to blower failure. On October 18, 2001, ERI installed a new Siemans regenerative blower capable of delivering 100 cubic-feet-per-minute. The new blower is a Siemans 3.4-hp, model 2BH1600 1AY19.

The following table 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
09/10/01 - 12/12/01	<17.55	<2.88
To Date:	<515.4	<84.6

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

DOCUMENT DISTRIBUTION

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
Valero Refining Company
Environmental and Safety Affairs Department
One Valero Place, MS-06E
San Antonio, Texas 78212

LIMITATIONS

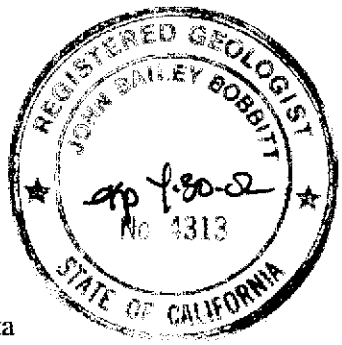
This report was prepared in accordance with generally accepted standards of environmental practice in California at the time this investigation was performed. This report has been prepared for ExxonMobil, and any reliance on this report by third parties shall be at such party's sole risk.

Please call Mr. Scott R. Graham, ERI's assistant project manager for this site, 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
	Plate 3:	Groundwater Elevation Map
	Attachment A:	Groundwater Sampling Protocol
	Attachment B:	Laboratory Analysis Reports and Chain-of-Custody Records
	Attachment C:	AS/SVE System Operation Data Provided by 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	---
	07/02/01	NLPH	6.27	11.08	---	74	14	<0.5	<0.5	<0.5	<0.5	---
	10/15/01	**NLPH**	**6.64**	**10.71**	**---**	**110**	**83**	**2.6**	**<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			>
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	---
	07/02/01	NLPH	5.62	11.05	---	1,400	890	13	1.1	<0.5	1.1	---
	10/15/01	**NLPH**	**7.55**	**9.12**	**---**	**620**	**1,900**	**190**	**3.5**	**4.5**	**7**	**---**

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

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TPHd	TPHg	MTBE	B	T	E	X	Oxygenated Compounds
		<..................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	---
	07/02/01	NLPH	5.82	11.29	880	5,300	1,200	1,300	32	30	730	---
	10/15/01	**NLPH**	**6.12**	**10.99**	**210e**	**2,300**	**1,800**	**630**	**2.5**	**8.2**	**3.34**	**---**

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	---
	07/02/01	NLPH	5.83	11.51	---	100	<2	3.9	<0.5	0.65	<0.5	---
	10/15/01	**NLPH**	**6.36**	**10.98**	**—**	**930**	**360**	**140**	**7**	**24**	**10**	**---**

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	---
	07/02/01	NLPH	5.77	10.94	---	4,100	960	1,600	20	35	21	---
	10/15/01	**NLPH**	**6.15**	**10.56**	**---**	**3,900**	**1,000**	**1,400**	**8.7**	**17**	**15.7**	**---**

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	---
	07/02/01	NLPH	8.73	8.83	520	3,700	2,000	330	<5	160	32	---
	10/15/01	**NLPH**	**6.24**	**11.32**	**1,100c**	**27,000**	**790**	**<12**	**<12**	**<12**	**<12**	**---**

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	---
	07/02/01	NLPH	5.42	11.70	---	110	740	4.1	<0.5	0.75	0.84	---
	10/15/01	**NLPH**	**7.50**	**9.62**	**---**	**170**	**740**	**<0.5**	**<0.5**	**<0.5**	**0.69**	**---**

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	---	---	---	---	---	---	---	---	---	---	---
	07/02/01	NLPH	5.76	10.57	<50	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	10/15/01	**NLPH**	**6.19**	**10.14**	**<50**	**<50**	**<2**	**<0.5**	**<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			>
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	---
	07/02/01	NLPH	6.40	9.22	---	<50	<2	<0.5	<0.5	<0.5	<0.5	---
	10/15/01	**NLPH**	**6.65**	**8.97**	**---**	**<50**	**<2**	**<0.5**	**<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 ..... >							
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	---

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 >							
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	---
	07/02/01	NLPH	9.10	8.94	2,300	45,000	3,000	2,000	2,000	1,400	7,200	---
	10/15/01	**NLPH**	**8.10**	**9.94**	**1,400e**	**55,000**	**2,600**	**5,100**	**5,700**	**1,900**	**9,100**	**---**
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.....>							
EW1	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.					---	---	---	---	---	---	---
EW2	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	---

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 >							
EW2 (cont)	07/26/96	NLPH	16.50	-0.45	---	1,400	14,000	250	56	10	220	---
(16.05)	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	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	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.					---	---	---	---	---	---	---
EW3	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	---	---	---	---	---	---	---	---

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			>
EW3(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.					---	---	---	---	---	---	---
EW4	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.					---	---	---	---	---	---	---
EW5	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	---

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 >							
EW5(cont.)	01/24/96	NLPH	9.72	6.79	---	2,500	350	280	66	22	370	---
(16.51)	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	---	---	---	---	---	---	---	---	---	---	---
	07/10/97	---	---	---	---	---	---	---	---	---	---	---
	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.
e	=	TPHd was detected in the sample; however, the detections do not resemble the typical diesel pattern.

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							25.7							
	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							
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					

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
	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							
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	

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
	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	< 16.05	< 470.6	< 0.11	< 8.58	
	A-INT							19.7	< 10	< 1.0					
	A-EFF							3.2	< 10	< 1.0					< 0.001
06/19/01	System running on arrival and departure.														
	A-INF	18,353	361	80	38	500	11	140							
	A-INT							6.4							
	A-EFF							3.0							
07/02/01	System running on arrival and departure.														
	A-INF	18,660	307	80	38	500	11	7.2							
	A-INT							0.0							
	A-EFF							0.0							
07/17/01	System running on arrival and departure.														
	A-INF	19,028	368	75	10	4,000	86	0.0	< 10	< 1.0	< 27.27	< 497.9	< 0.19	< 8.77	
	A-INT							0.0	< 10	< 1.0					
	A-EFF							0.0	< 10	< 1.0					< 0.008
08/07/01	System running on arrival and shut down on departure for blower failure														
	A-INF	---	---	---	---	---	---								
	A-INT		---	---	---	---	---								
	A-EFF		---	---	---	---	---								
08/13/01	System down on arrival, blower removed awaiting replacement.														
08/27/01	System down, awaiting blower replacement.														
09/10/01	System down, awaiting blower replacement.														
10/18/01	System down on arrival, installed blower, and running on departure.														
	A-INF	19,534	506	120	31	4,000	80	568.0							
	A-INT							3.0							
	A-EFF							2.0							
10/24/01	System running on arrival and running upon departure.														
	A-INF	19,673	139	80	41	3,300	71	93.1	72	< 1.0	< 7.76	< 505.6	< 0.19	< 8.96	
	A-INT							7.3	< 10	< 1.0					
	A-EFF							5	< 10	< 1.0					< 0.006
11/07/01	System running on arrival and down upon departure for carbon c/o. Samples taken														
	A-INF	20,012	339	74	45	3,000	65	230.0	55	< 1.0	5.46	< 511.1	< 0.09	< 9.05	
	A-INT							27.0	< 10	< 1.0					
	A-EFF							5.1	< 10	< 1.0					< 0.006
11/21/01	System running on arrival and down upon departure for carbon c/o. Samples taken														
	A-INF	20,012	0	150	45	3,000	57	373.0							
	A-INT							0.0							
	A-EFF							0							
12/12/01	System down upon arrival, K.O. tank H/H, and running upon departure.														
12/12/01	A-INF	20,361	349	142	46	3,000	58	98.1	45	1.3	4.00	< 515.1	< 0.09	< 9.14	
	A-INT							1.0	< 10	< 1.0					
	A-EFF							2.7	< 10	< 1.0					< 0.005

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

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	Average Flowrate	Sample	Laboratory Analytical Results								TPHg Removal		Benzene Removal	
				TPHg		B	T	E	X			Per Period	Cumulative	Per Period	Cumulative
	gal	gpm	ID	< ug/L >								< lbs >		< 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	Average Flowrate	Sample	Laboratory Analytical Results						TPHg Removal		Benzene Removal	
				TPHg	B	T	E	X		Per Period	Cumulative	Per Period	Cumulative
	gal	gpm	ID	<.....ug/L.....>						<.....lbs.....>		<.....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					

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

Date	Total Flow	Average Flowrate	Laboratory Analytical Results							TPHg Removal		Benzene Removal	
			Sample		TPHg		B	T	E	X	Per Period	Cumulative	Per Period	Cumulative
	gal	gpm	ID	<	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				

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

Date	Total Flow	Average Flowrate	Laboratory Analytical Results								TPHg Removal		Benzene Removal	
			Sample		TPHg		B	T	E	X	Per Period	Cumulative	Per Period	Cumulative
	gal	gpm	ID	<	ug/L	<	ug/L	ug/L	ug/L	ug/L	< lbs >		< 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
Former Exxon Service Station 7-0104
1725 Park Street
Alameda, California

Date	Total Flow	Average Flowrate	Laboratory Analytical Results							TPHg Removal		Benzene Removal	
			Sample	TPHg	B	T	E	X		Per Period	Cumulative	Per Period	Cumulative
	gal	gpm	ID	ug/L						lbs		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	Laboratory Analytical Results								TPHg Removal		Benzene Removal	
			Sample ID		TPHg		B	T	E	X	Per Period	Cumulative	Per Period	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				

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

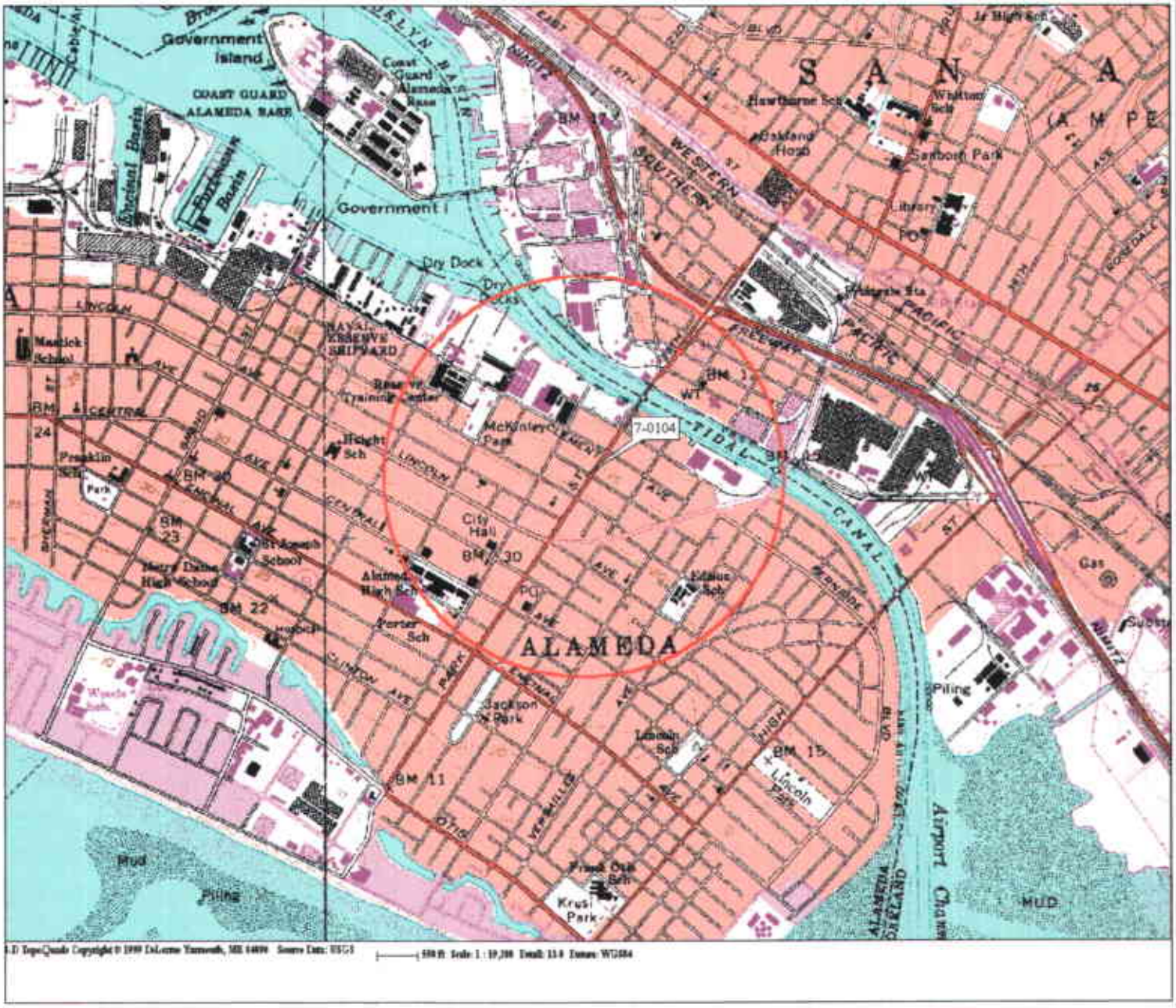
Date	Total Flow	Average Flowrate	Laboratory Analytical Results						TPHg Removal		Benzene Removal	
			Sample	TPHg	B	T	E	X	Per Period	Cumulative	Per Period	Cumulative
	gal	gpm	ID	ug/L					lbs		lbs	
05/06/99	5,621,560	1.1	W-INF	310	45	6.0	0.86	41	0.17	28.2	0.0169	4.66
			W-INT	< 50	< 0.5	<0.5	<0.5	<0.5				
			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				

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

Date	Total Flow	Average Flowrate	Laboratory Analytical Results							TPHg Removal		Benzene Removal	
			Sample ID		TPHg		B	T	E	X	Per Period	Cumulative	Per Period	Cumulative
	gal	gpm		<	ug/L					>	< lbs >		< 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/Not sampled/Not 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

Analyte Concentrations in ug/L
Sampled October 15, 2001

1,400e Total Petrpleum Hydrocarbons as diesel
55,000 Total Petroleum Hydrocarbons as gasoline
2,600 Methyl Tertiary Butyl Ether
5,100 Benzene
5,700 Toluene
1,900 Ethylbenzene
9,100 Total Xylenes

< Less Than the Stated Laboratory Detection Limit
ug/L Micrograms per Liter
NA Not Analyzed
NS Not Sampled
e TPHd was detected in the sample; however, the detections do not resemble the typical diesel pattern

APPROXIMATE SCALE
0 50 100 Feet

FN 25060002

ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

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

EXPLANATION

- MW9 Groundwater Monitoring Well
- EW4 Recovery Well
- MW10 Destroyed Groundwater Monitoring Well
- SB-7 Soil Boring Location
- MW1 Groundwater Monitoring Well By Others
- VW2 Vapor Extraction Well
- AS1 Air Sparge/Soil Vapor Well

PROJECT NO.
2560

PLATE
2

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GROUNDWATER ELEVATION MAP

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

EXPLANATION

- MW9 — Groundwater Monitoring Well
- 8.97 — Groundwater elevation in feet; datum is mean sea level
- EW4 — Recovery Well
- MW10 — Destroyed Groundwater Monitoring Well
- ---11.0--- Line of Equal Groundwater Elevation; datum is mean sea level
- SB-7 — Soil Boring Location
- MW1 — Groundwater Monitoring Well By Others
- VW2 — Vapor Extraction Well
- AS1 — Air Sparge/Soil Vapor Well

PROJECT NO. 2560

PLATE 3

ATTACHMENT A

GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

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

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

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

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

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

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

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

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

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

ATTACHMENT B

LABORATORY ANALYSIS 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:

01101058

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:	10/30/01	

This Report Contains A Total Of 10 Pages

Excluding This Page

And

Chain Of Custody

10/30/01

Date

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01101058

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:	10/30/01	

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.

10/30/01

Sonia West
Senior Project Manager

Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01101058

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: 10/30/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
A-INF	01101058-01	Air	10/24/01 12:15:00 PM	10/26/01 10:00:00 AM		☐
A-INT	01101058-02	Air	10/24/01 12:15:00 PM	10/26/01 10:00:00 AM		☐
A-EFF	01101058-03	Air	10/24/01 12:15:00 PM	10/26/01 10:00:00 AM		☐

Sonia West
Senior Project Manager

10/30/01
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:

01101058

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:	10/30/01

Client Sample ID: A-INF **SPL Sample ID:** 01101058-01A

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	1.1	1.0	0.25	0.23
Methyl tert-butyl ether	1	1.0	0.27	0.27
Xylenes,Total	1.1	1.0	0.25	0.23
TPH Air	72	10	20	2.8

Client Sample ID: A-INT **SPL Sample ID:** 01101058-02A

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
Methyl tert-butyl ether	ND	1.0	ND	0.27
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:

01101058

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:	10/30/01

Client Sample ID: A-EFF **SPL Sample ID:** 01101058-03A

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
Methyl tert-butyl ether	ND	1.0	ND	0.27
Xylenes,Total	ND	1.0	ND	0.23
TPH Air	ND	10	ND	2.8

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

Client Sample ID: A-INF **Collected:** 10/24/01 12:15:0 **SPL Sample ID:** 01101058-01

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		10/26/01 15:47	TM	880675
Toluene	ND		1.0	1		10/26/01 15:47	TM	880675
Ethylbenzene	ND		1.0	1		10/26/01 15:47	TM	880675
Methyl tert-butyl ether	1		1.0	1		10/26/01 15:47	TM	880675
m,p-Xylene	ND		1.0	1		10/26/01 15:47	TM	880675
o-Xylene	1.1		1.0	1		10/26/01 15:47	TM	880675
Xylenes,Total	1.1		1.0	1		10/26/01 15:47	TM	880675
Surr: 1,4-Difluorobenzene	95.7	%	20-150	1		10/26/01 15:47	TM	880675
Surr: 4-Bromofluorobenzene	97.3	%	58-139	1		10/26/01 15:47	TM	880675
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	72		10	1		10/26/01 15:47	TM	880682
Surr: 1,4-Difluorobenzene	104	%	62-144	1		10/26/01 15:47	TM	880682
Surr: 4-Bromofluorobenzene	100	%	44-153	1		10/26/01 15:47	TM	880682

Sonia West

Sonia West
Project Manager

Qualifiers:

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

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

Client Sample ID: A-INT **Collected:** 10/24/01 12:15:0 **SPL Sample ID:** 01101058-02

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		10/26/01 16:16	TM	880676
Toluene	ND		1.0		1		10/26/01 16:16	TM	880676
Ethylbenzene	ND		1.0		1		10/26/01 16:16	TM	880676
Methyl tert-butyl ether	ND		1.0		1		10/26/01 16:16	TM	880676
m,p-Xylene	ND		1.0		1		10/26/01 16:16	TM	880676
o-Xylene	ND		1.0		1		10/26/01 16:16	TM	880676
Xylenes,Total	ND		1.0		1		10/26/01 16:16	TM	880676
Surr: 1,4-Difluorobenzene	93.9	%	20-150		1		10/26/01 16:16	TM	880676
Surr: 4-Bromofluorobenzene	100	%	58-139		1		10/26/01 16:16	TM	880676
TOTAL PETROLEUM PRODUCT IN AIR				**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10		1		10/26/01 16:16	TM	880683
Surr: 1,4-Difluorobenzene	108	%	62-144		1		10/26/01 16:16	TM	880683
Surr: 4-Bromofluorobenzene	109	%	44-153		1		10/26/01 16:16	TM	880683

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID: A-EFF **Collected:** 10/24/01 12:15:0 **SPL Sample ID:** 01101058-03

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		10/26/01 16:45	TM	880677
Toluene	ND		1.0	1		10/26/01 16:45	TM	880677
Ethylbenzene	ND		1.0	1		10/26/01 16:45	TM	880677
Methyl tert-butyl ether	ND		1.0	1		10/26/01 16:45	TM	880677
m,p-Xylene	ND		1.0	1		10/26/01 16:45	TM	880677
o-Xylene	ND		1.0	1		10/26/01 16:45	TM	880677
Xylenes,Total	ND		1.0	1		10/26/01 16:45	TM	880677
Surr: 1,4-Difluorobenzene	92.4	%	20-150	1		10/26/01 16:45	TM	880677
Surr: 4-Bromofluorobenzene	115	%	58-139	1		10/26/01 16:45	TM	880677
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		10/26/01 16:45	TM	880684
Surr: 1,4-Difluorobenzene	109	%	62-144	1		10/26/01 16:45	TM	880684
Surr: 4-Bromofluorobenzene	108	%	44-153	1		10/26/01 16:45	TM	880684

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, TX 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Purgeable Aromatics in Air
Method: SW8020A
WorkOrder: 01101058
Lab Batch ID: R46334

Method Blank

RunID: HP_P_011026A-880674 Units: mg/m³
Analysis Date: 10/26/2001 15:18 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01101058-01A	A-INF
01101058-02A	A-INT
01101058-03A	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	91.8	20-150
Surr: 4-Bromofluorobenzene	95.8	58-139

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

RunID: HP_P_011026A-880672 Units: mg/m³
Analysis Date: 10/26/2001 14:20 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	69	108	64	70	109	0.8	34	37	117
Ethylbenzene	88	91	104	88	91	103	0.2	35	56	115
Methyl tert-butyl ether	364	370	102	364	520	144	34.2	30	30	175
Toluene	80	81	101	80	81	101	0.1	30	25	113
m,p-Xylene	88	90	103	88	90	102	0.5	35	12	114
o-Xylene	88	88	100	88	91	104	3.2	35	15	109
Xylenes,Total	176	178	101	176	181	103	1.7	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, TX 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Total Petroleum Product in Air
Method: SW8015B

WorkOrder: 01101058
Lab Batch ID: R46336

Method Blank

RunID: HP_P_011026B-880681 Units: mg/m³
Analysis Date: 10/26/2001 15:18 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01101058-01A	A-INF
01101058-02A	A-INT
01101058-03A	A-EFF

Analyte	Result	Rep Limit
TPH Air	ND	10
Surr: 1,4-Difluorobenzene	106.8	62-144
Surr: 4-Bromofluorobenzene	107.4	44-153

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

RunID: HP_P_011026B-880679 Units: mg/m³
Analysis Date: 10/26/2001 14:20 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	450	59	770	470	61	4.9	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, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	01101058	Received By:	RE
Date and Time Received:	10/26/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	AMBIENT	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: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

01101058

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 CHAPPELL

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 #: 21040341

Sampled By: ~~CINDY JOHNSON~~ JEFF CICHOCKI

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	10/24/01	12:15		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: 24hr

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ ☐ EDD

FAX ☐ ☐ FAX C-O-C W/REPORT

LAB USE ONLY Lot # Storage Location

WORK ORDER #: 01101058 LAB WORK RELEASE #: 21040341

QA/QC Level

Standard X CLP ☐ Other ☐ _____

CUSTODY RECORD

	Relinquished By Sampler	Date	Time	Received By:
	ERI	10/25/01	730	
	Relinquished:	Date	Time	Received By:
	Relinquished:	Date	Time	Received By:
				Lab Bill #:

10/26/01 1000

Cooler Temp: AMBIENT

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

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01110381

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:	11/12/01	

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.

11/12/01

Sonia West
Senior Project Manager

Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01110381

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: 11/12/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
A-INF	01110381-01	Air	11/7/01	11/9/01 10:00:00 AM		☐
A-INT	01110381-02	Air	11/7/01	11/9/01 10:00:00 AM		☐
A-EFF	01110381-03	Air	11/7/01	11/9/01 10:00:00 AM		☐

Sonia West 11/12/01

Sonia West
Senior Project Manager
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:

01110381

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: 11/12/01

Client Sample ID: A-INF **SPL Sample ID:** 01110381-01A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	ND	1.0	ND	0.31
Toluene	2.1	1.0	0.55	0.26
Ethylbenzene	1.1	1.0	0.25	0.23
m,p-Xylene	4.7	1.0	1.1	0.23
o-Xylene	2.8	1.0	0.64	0.23
Xylenes,Total	7.5	1.0	1.7	0.23
TPH Air	55	10	15	2.8

Client Sample ID: A-INT **SPL Sample ID:** 01110381-02A

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:

01110381

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:	11/12/01	

Client Sample ID: A-EFF **SPL Sample ID:** 01110381-03A

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, TX 77054
(713) 660-0901

Client Sample ID A-INF **Collected:** 11/7/01 **SPL Sample ID:** 01110381-01

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		11/09/01 23:08	TM	903606
Toluene	2.1		1.0	1		11/09/01 23:08	TM	903606
Ethylbenzene	1.1		1.0	1		11/09/01 23:08	TM	903606
m,p-Xylene	4.7		1.0	1		11/09/01 23:08	TM	903606
o-Xylene	2.8		1.0	1		11/09/01 23:08	TM	903606
Xylenes,Total	7.5		1.0	1		11/09/01 23:08	TM	903606
Surr: 1,4-Difluorobenzene	91.8	%	20-150	1		11/09/01 23:08	TM	903606
Surr: 4-Bromofluorobenzene	102	%	58-139	1		11/09/01 23:08	TM	903606
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	55		10	1		11/09/01 23:08	TM	903641
Surr: 1,4-Difluorobenzene	104	%	62-144	1		11/09/01 23:08	TM	903641
Surr: 4-Bromofluorobenzene	112	%	44-153	1		11/09/01 23:08	TM	903641

Sonia West

Sonia West
Project Manager

Qualifiers:

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

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

Client Sample ID A-INT **Collected:** 11/7/01 **SPL Sample ID:** 01110381-02

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		11/09/01 23:37	TM	903607
Toluene	ND		1.0	1		11/09/01 23:37	TM	903607
Ethylbenzene	ND		1.0	1		11/09/01 23:37	TM	903607
m,p-Xylene	ND		1.0	1		11/09/01 23:37	TM	903607
o-Xylene	ND		1.0	1		11/09/01 23:37	TM	903607
Xylenes,Total	ND		1.0	1		11/09/01 23:37	TM	903607
Surr: 1,4-Difluorobenzene	94.3	%	20-150	1		11/09/01 23:37	TM	903607
Surr: 4-Bromofluorobenzene	100	%	58-139	1		11/09/01 23:37	TM	903607
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		11/09/01 23:37	TM	903642
Surr: 1,4-Difluorobenzene	108	%	62-144	1		11/09/01 23:37	TM	903642
Surr: 4-Bromofluorobenzene	111	%	44-153	1		11/09/01 23:37	TM	903642

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID A-EFF **Collected:** 11/7/01 **SPL Sample ID:** 01110381-03

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		11/10/01 0:06	TM	903608
Toluene	ND		1.0	1		11/10/01 0:06	TM	903608
Ethylbenzene	ND		1.0	1		11/10/01 0:06	TM	903608
m,p-Xylene	ND		1.0	1		11/10/01 0:06	TM	903608
o-Xylene	ND		1.0	1		11/10/01 0:06	TM	903608
Xylenes,Total	ND		1.0	1		11/10/01 0:06	TM	903608
Surr: 1,4-Difluorobenzene	92.4	%	20-150	1		11/10/01 0:06	TM	903608
Surr: 4-Bromofluorobenzene	99.8	%	58-139	1		11/10/01 0:06	TM	903608
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		11/10/01 0:06	TM	903643
Surr: 1,4-Difluorobenzene	107	%	62-144	1		11/10/01 0:06	TM	903643
Surr: 4-Bromofluorobenzene	108	%	44-153	1		11/10/01 0:06	TM	903643

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, TX 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Purgeable Aromatics in Air
Method: SW8020A
WorkOrder: 01110381
Lab Batch ID: R47428

Method Blank

RunID: HP_P_011109A-903600 Units: mg/m³
Analysis Date: 11/09/2001 19:14 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01110381-01A	A-INF
01110381-02A	A-INT
01110381-03A	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	91.5	20-150
Surr: 4-Bromofluorobenzene	93.8	58-139

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

RunID: HP_P_011109A-903601 Units: mg/m³
Analysis Date: 11/09/2001 19:43 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	57	90	64	58	91	1.1	34	37	117
Ethylbenzene	88	61	69	88	66	75	7.9	35	56	115
Toluene	80	62	77	80	64	81	4.6	30	25	113
m,p-Xylene	88	60	68	88	68	77	12.0	35	12	114
o-Xylene	88	56	64	88	65	74	14.0	35	15	109
Xylenes,Total	176	116	66	176	133	76	13.7	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, TX 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Total Petroleum Product in Air
Method: SW8015B
WorkOrder: 01110381
Lab Batch ID: R47430

Method Blank

RunID: HP_P_011109B-903635 Units: mg/m³
Analysis Date: 11/09/2001 19:14 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01110381-01A	A-INF
01110381-02A	A-INT
01110381-03A	A-EFF

Analyte	Result	Rep Limit
TPH Air	ND	10
Surr: 1,4-Difluorobenzene	106.5	62-144
Surr: 4-Bromofluorobenzene	105.3	44-153

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

RunID: HP_P_011109B-903636 Units: mg/m³
Analysis Date: 11/09/2001 19:43 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	330	43	770	370	48	12.1	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, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	01110381	Received By:	RE
Date and Time Received:	11/9/01 10:00:00 AM	Carrier name:	FedEx
Temperature:	AMBIENT	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: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. _____ Page 1 of 1

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

Consultant Co. Name ERI Contact: JIM CHAPPEL

Address: 73 DIGITAL DR STE 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 #: 21040341

Sampled By: JEFF CICHOCKI

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 ☐	OTHER: PURGEABLE HYDROCARBON 8010 ☐ 601 ☐	TPH/IR 418.1 ☐	TOX/TOH ☐
A - INF	11/7/01			X			X			1	1L	X	X															
A - INT	11/7/01			X			X			1	1L	X	X															
A - EFF	11/7/01			X			X			1	1L	X	X															

RUSH

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

EXXON UST CONTRACT NO. C41483

SPECIAL DETECTION LIMITS (Specify)

REMARKS:

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

QA/QC Level
Standard ☐ CLP ☐ Other ☐

LAB USE ONLY Lot # Storage Location

WORK ORDER #: 01110381 LAB WORK RELEASE #: 21040341

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler: ERI	11/8/01	10:00	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	11/9/01	1000	Received By: Way Bill #: Cooler Temp: AMBIENT

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

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
(713)660-0901

RECEIVED
NOV 29 2001

EXXONCompanyU.S.A.

CertificateofAnalysisNumber:

01100704

ReportTo:	ProjectName: 250613X
EnvironmentalResolution,Inc.	Site: 70104
ScottGraham	SiteAddress:
73DigitalDriveSuite100	
Novato	PONumber: EWR#21040341
California	State: California
94949-	StateCert.No.: 1903
ph (415)382-9105 fax: (415)382-1856	DateReported: 11/7/01

ThisReportContainsATotalOf31Pages

ExcludingThisPage

11/29/01

Date

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
(713)660-0901

CaseNarrativefor:

EXXONCompanyU.S.A.

CertificateofAnalysisNumber:

01100704

ReportTo:		ProjectName:	250613X
EnvironmentalResolution,Inc.		Site:	70104
ScottGraham		SiteAddress:	
73DigitalDriveSuite100			
Novato		PONumber:	EWR#21040341
California		State:	California
94949-		StateCert.No.:	1903
ph: (415)382-9105	fax: (415)382-1856	DateReported:	11/7/01

TherewasadiscrepancyinthesampleID"MW1"(SPLID:01100704-12)writtenonthechainofcustodyandthesampleID"MW11"written onthesamplecontainer.PerScottGraham,viaphoneconversation,thecorrectsampleIDis"MW11"whichwascollectedat3:35pm.

Pleasenotethatyoursamples"MW3","MW6",andMW11"weredetectedforDieselRangeOrganicsbyCaliforniaMethod.However,these detectsdonotresembleadieselpattern.

Also,pleasenotethatyoursample"MW6"wasanalyzedforPurgeableAromaticsbySW846method8021Batadilutionduetomatrix interference(highMTBEconcentration).

Matrixspike(MS)andmatrixspikeduplicate(MSD)samplesarechosenandtestedatrandomfromananalyticalbatchof"like"matrixto checkforpossiblematrixeffect.TheMSandMSDwillprovidesitespecificmatrixdataonlyforthosesampleswhicharespikedbythe laboratory.SincetheMSandMSDarechosenatrandomfromananalyticalbatch,thesamplechosenforspikepurposesmayormaynot havebeenasamplesubmittedinthissampledeliverygroup.Thevalidityoftheanalyticalproceduresforwhichdataisreportedinthis analyticalreportisdeterminedbytheLaboratoryControlSample(LCS)andtheMethodBlank(MB).TheLaboratoryControlSample(LCS) andtheMethodBlank(MB)areprocessedwiththesamplesandtheMS/MSDtoensuremethodcriteriaareachievedthroughouttheentire analyticalprocess.

Anyotherexceptionsassociatedwiththisreportwillbefootnotedintheanalyticalresultpage(s)orthequalitycontrolsummarypage(s).

Pleasedonothesitatetocontactusifyouhaveanyquestionsorcommentspertainingtothisdatareport.Pleasereferencetheabove CertificateofAnalysisNumber.

Thisreportshallnotbereproducedexceptinfull,withoutthewrittenapprovalofthelaboratory.Thereportedresultsareonlyrepresentative ofthesamplessubmittedfortesting.

SPL,Inc.ispleasedtobeofservicetoyou.Weanticipateworkingwithyouinfulfillingallyourcurrentandfutureanalyticalneeds.

SoniaWest
SeniorProjectManager

Date

HOUSTONL ABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
(713)660-0901

EXXONCompanyU.S.A.

CertificateofAnalysisNumber:

01100704

ReportTo: EnvironmentalResolution,Inc.
ScottGraham
73DigitalDriveSuite100

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

FaxTo: EnvironmentalResolution,Inc.
ScottGraham fax: (415)382-1856

ProjectName: 250613X
Site: 70104
SiteAddress:

PONumber: EWR#21040341
State: California
StateCert.No.: 1903
DateReported: 11/7/01

ClientSampleID	LabSampleID	Matrix	DateCollected	DateReceived	COCID	HOLD
TB10/3/01	01100704-01	Water	10/15/01	10/17/019:45:00AM		☐
BB	01100704-02	Water	10/15/012:00:00PM	10/17/019:45:00AM		☐
MW8	01100704-03	Water	10/15/012:10:00PM	10/17/019:45:00AM		☐
MW9	01100704-04	Water	10/15/012:15:00PM	10/17/019:45:00AM		☐
MW1	01100704-05	Water	10/15/012:25:00PM	10/17/019:45:00AM		☐
MW4	01100704-06	Water	10/15/012:35:00PM	10/17/019:45:00AM		☐
MW7	01100704-07	Water	10/15/012:45:00PM	10/17/019:45:00AM		☐
MW2	01100704-08	Water	10/15/012:55:00PM	10/17/019:45:00AM		☐
MW5	01100704-09	Water	10/15/013:05:00PM	10/17/019:45:00AM		☐
MW3	01100704-10	Water	10/15/013:15:00PM	10/17/019:45:00AM		☐
MW6	01100704-11	Water	10/15/013:25:00PM	10/17/019:45:00AM		☐
MW11	01100704-12	Water	10/15/013:35:00PM	10/17/019:45:00AM		☐

11/29/01

SoniaWest
SeniorProjectManager

Date

JoelGrice
LaboratoryDirector

TedYen
QualityAssuranceOfficer

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
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ClientSampleID TB10/3/01 **Collected:** 10/15/01 **SPLSampleID:** 01100704-01

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	ND	50	1		10/21/0114:54	D_R	871756
Surr:1,4-Difluorobenzene	96.3	%62-144	1		10/21/0114:54	D_R	871756
Surr:4-Bromofluorobenzene	97.7	%44-153	1		10/21/0114:54	D_R	871756
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND	0.5	1		10/21/0114:54	D_R	871736
Ethylbenzene	ND	0.5	1		10/21/0114:54	D_R	871736
Methyltert-butylether	ND	2	1		10/21/0114:54	D_R	871736
Toluene	ND	0.5	1		10/21/0114:54	D_R	871736
m,p-Xylene	ND	0.5	1		10/21/0114:54	D_R	871736
o-Xylene	ND	0.5	1		10/21/0114:54	D_R	871736
Xylenes,Total	ND	0.5	1		10/21/0114:54	D_R	871736
Surr:1,4-Difluorobenzene	97.8	%72-137	1		10/21/0114:54	D_R	871736
Surr:4-Bromofluorobenzene	96.4	%48-156	1		10/21/0114:54	D_R	871736

SoniaWest
ProjectManager

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
(713)660-0901

ClientSampleID BB **Collected:** 10/15/012:00:00 **SPLSampleID:** 01100704-02

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	ND	50	1		10/21/0115:20	D_R	871757
Surr:1,4-Difluorobenzene	105	%62-144	1		10/21/0115:20	D_R	871757
Surr:4-Bromofluorobenzene	101	%44-153	1		10/21/0115:20	D_R	871757
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND	0.5	1		10/21/0115:20	D_R	871737
Ethylbenzene	ND	0.5	1		10/21/0115:20	D_R	871737
Methyltert-butylether	ND	2	1		10/21/0115:20	D_R	871737
Toluene	ND	0.5	1		10/21/0115:20	D_R	871737
m,p-Xylene	ND	0.5	1		10/21/0115:20	D_R	871737
o-Xylene	ND	0.5	1		10/21/0115:20	D_R	871737
Xylenes,Total	ND	0.5	1		10/21/0115:20	D_R	871737
Surr:1,4-Difluorobenzene	97.3	%72-137	1		10/21/0115:20	D_R	871737
Surr:4-Bromofluorobenzene	96.6	%48-156	1		10/21/0115:20	D_R	871737

SoniaWest
ProjectManager

Qualifiers:

ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

HOUSTONLABORATORY
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HOUSTON,TX77054
(713)660-0901

ClientSampleID MW8 **Collected:** 10/15/012:10:00 **SPLSampleID:** 01100704-03

Site: 70104

Analyses/Method	Result	Rep.Limit		Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
DIESELRANGEORGANICS			**MCL**	**CA_DRO**		**Units: ug/L**		
DieselRangeOrganics	ND	50		1		10/27/014:04	AM	882971
Surr:n-Pentacosane	30.2	%20-150		1		10/27/014:04	AM	882971
GASOLINERANGEORGANICS			**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	ND	50		1		10/21/0118:15	D_R	871760
Surr:1,4-Difluorobenzene	105	%62-144		1		10/21/0118:15	D_R	871760
Surr:4-Bromofluorobenzene	97.7	%44-153		1		10/21/0118:15	D_R	871760
PURGEABLEAROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND	0.5		1		10/21/0118:15	D_R	871740
Ethylbenzene	ND	0.5		1		10/21/0118:15	D_R	871740
Methyltert-butylether	ND	2		1		10/21/0118:15	D_R	871740
Toluene	ND	0.5		1		10/21/0118:15	D_R	871740
m,p-Xylene	ND	0.5		1		10/21/0118:15	D_R	871740
o-Xylene	ND	0.5		1		10/21/0118:15	D_R	871740
Xylenes,Total	ND	0.5		1		10/21/0118:15	D_R	871740
Surr:1,4-Difluorobenzene	98.8	%72-137		1		10/21/0118:15	D_R	871740
Surr:4-Bromofluorobenzene	98.4	%48-156		1		10/21/0118:15	D_R	871740
SILICAGELCLEANUP			**MCL**	**SW3630C**		**Units:**		
DatePerformed	10/19/01	0		1		10/19/010:00	KL	872140

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ProjectManager

Qualifiers:

ND/U-NotDetectedatTheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
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ClientSampleID MW9 **Collected:** 10/15/012:15:00 **SPLSampleID:** 01100704-04

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	ND	50	1		10/21/0118:41	D_R	871761
Surr:1,4-Difluorobenzene	102	%62-144	1		10/21/0118:41	D_R	871761
Surr:4-Bromofluorobenzene	98.3	%44-153	1		10/21/0118:41	D_R	871761
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND	0.5	1		10/21/0118:41	D_R	871741
Ethylbenzene	ND	0.5	1		10/21/0118:41	D_R	871741
Methyltert-butylether	ND	2	1		10/21/0118:41	D_R	871741
Toluene	ND	0.5	1		10/21/0118:41	D_R	871741
m,p-Xylene	ND	0.5	1		10/21/0118:41	D_R	871741
o-Xylene	ND	0.5	1		10/21/0118:41	D_R	871741
Xylenes,Total	ND	0.5	1		10/21/0118:41	D_R	871741
Surr:1,4-Difluorobenzene	98.1	%72-137	1		10/21/0118:41	D_R	871741
Surr:4-Bromofluorobenzene	98.4	%48-156	1		10/21/0118:41	D_R	871741

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ProjectManager

Qualifiers:

ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
(713)660-0901

ClientSampleID MW1 **Collected:** 10/15/012:25:00 **SPLSampleID:** 01100704-05

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	110	50	1		10/21/0120:52	D_R	871762
Surr:1,4-Difluorobenzene	108	%62-144	1		10/21/0120:52	D_R	871762
Surr:4-Bromofluorobenzene	126	%44-153	1		10/21/0120:52	D_R	871762
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	2.6	0.5	1		10/21/0120:52	D_R	871743
Ethylbenzene	ND	0.5	1		10/21/0120:52	D_R	871743
Methyltert-butylether	83	2	1		10/21/0120:52	D_R	871743
Toluene	ND	0.5	1		10/21/0120:52	D_R	871743
m,p-Xylene	ND	0.5	1		10/21/0120:52	D_R	871743
o-Xylene	ND	0.5	1		10/21/0120:52	D_R	871743
Xylenes,Total	ND	0.5	1		10/21/0120:52	D_R	871743
Surr:1,4-Difluorobenzene	93.4	%72-137	1		10/21/0120:52	D_R	871743
Surr:4-Bromofluorobenzene	108	%48-156	1		10/21/0120:52	D_R	871743

SoniaWest
ProjectManager

Qualifiers:

ND/U-NotDetectedattheReportingLimit
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MI-MatrixInterference

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
(713)660-0901

ClientSampleID MW4 **Collected:** 10/15/012:35:00 **SPLSampleID:** 01100704-06

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	930	250	5		10/23/016:46	D_R	874176
Surr:1,4-Difluorobenzene	120	%62-144	5		10/23/016:46	D_R	874176
Surr:4-Bromofluorobenzene	137	%44-153	5		10/23/016:46	D_R	874176
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	140	2.5	5		10/23/016:46	D_R	874135
Ethylbenzene	24	2.5	5		10/23/016:46	D_R	874135
Methyltert-butylether	360	10	5		10/23/016:46	D_R	874135
Toluene	7	2.5	5		10/23/016:46	D_R	874135
m,p-Xylene	10	2.5	5		10/23/016:46	D_R	874135
o-Xylene	ND	2.5	5		10/23/016:46	D_R	874135
Xylenes,Total	10	2.5	5		10/23/016:46	D_R	874135
Surr:1,4-Difluorobenzene	106	%72-137	5		10/23/016:46	D_R	874135
Surr:4-Bromofluorobenzene	117	%48-156	5		10/23/016:46	D_R	874135

SoniaWest
ProjectManager

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
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HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
(713)660-0901

ClientSampleID MW7 **Collected:** 10/15/012:45:00 **SPLSampleID:** 01100704-07

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	170	50	1		10/21/0123:03	D_R	871765
Surr:1,4-Difluorobenzene	105	%62-144	1		10/21/0123:03	D_R	871765
Surr:4-Bromofluorobenzene	103	%44-153	1		10/21/0123:03	D_R	871765
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND	0.5	1		10/21/0123:03	D_R	871745
Ethylbenzene	ND	0.5	1		10/21/0123:03	D_R	871745
Methyltert-butylether	740	10	5		10/23/017:12	D_R	874136
Toluene	ND	0.5	1		10/21/0123:03	D_R	871745
m,p-Xylene	0.69	0.5	1		10/21/0123:03	D_R	871745
o-Xylene	ND	0.5	1		10/21/0123:03	D_R	871745
Xylenes,Total	0.69	0.5	1		10/21/0123:03	D_R	871745
Surr:1,4-Difluorobenzene	102	%72-137	1		10/21/0123:03	D_R	871745
Surr:1,4-Difluorobenzene	100	%72-137	5		10/23/017:12	D_R	874136
Surr:4-Bromofluorobenzene	102	%48-156	1		10/21/0123:03	D_R	871745
Surr:4-Bromofluorobenzene	99.6	%48-156	5		10/23/017:12	D_R	874136

SoniaWest
ProjectManager

Qualifiers:

ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

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ClientSampleID MW2 **Collected:** 10/15/012:55:00 **SPLSampleID:** 01100704-08

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	620	50	1		10/21/0123:29	D_R	871766
Surr:1,4-Difluorobenzene	136	%62-144	1		10/21/0123:29	D_R	871766
Surr:4-Bromofluorobenzene	142	%44-153	1		10/21/0123:29	D_R	871766
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	190	0.5	1		10/21/0123:29	D_R	871746
Ethylbenzene	4.5	0.5	1		10/21/0123:29	D_R	871746
Methyltert-butylether	1900	20	10		10/23/017:38	D_R	874137
Toluene	3.5	0.5	1		10/21/0123:29	D_R	871746
m,p-Xylene	5.8	0.5	1		10/21/0123:29	D_R	871746
o-Xylene	1.2	0.5	1		10/21/0123:29	D_R	871746
Xylenes,Total	7	0.5	1		10/21/0123:29	D_R	871746
Surr:1,4-Difluorobenzene	127	%72-137	1		10/21/0123:29	D_R	871746
Surr:1,4-Difluorobenzene	100	%72-137	10		10/23/017:38	D_R	874137
Surr:4-Bromofluorobenzene	101	%48-156	10		10/23/017:38	D_R	874137
Surr:4-Bromofluorobenzene	117	%48-156	1		10/21/0123:29	D_R	871746

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ProjectManager

Qualifiers:

ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EslimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
Mi-MatrixInterference

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ClientSampleID MW5 **Collected:** 10/15/013:05:00 **SPLSampleID:** 01100704-09

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	3900	250	5		10/21/0123:55	D_R	871767
Surr:1,4-Difluorobenzene	141	%62-144	5		10/21/0123:55	D_R	871767
Surr:4-Bromofluorobenzene	132	%44-153	5		10/21/0123:55	D_R	871767
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	1400	2.5	5		10/24/013:07	D_R	875648
Ethylbenzene	17	2.5	5		10/24/013:07	D_R	875648
Methyltert-butylether	1000	10	5		10/24/013:07	D_R	875648
Toluene	8.7	2.5	5		10/24/013:07	D_R	875648
m,p-Xylene	13	2.5	5		10/24/013:07	D_R	875648
o-Xylene	2.7	2.5	5		10/24/013:07	D_R	875648
Xylenes,Total	15.7	2.5	5		10/24/013:07	D_R	875648
Surr:1,4-Difluorobenzene	135	%72-137	5		10/24/013:07	D_R	875648
Surr:4-Bromofluorobenzene	116	%48-156	5		10/24/013:07	D_R	875648

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Qualifiers:

ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

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ClientSampleID MW3 **Collected:** 10/15/013:15:00 **SPLSampleID:** 01100704-10

Site: 70104

Analyses/Method	Result	Rep.Limit		Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
DIESELRANGEORGANICS			**MCL**	**CA_DRO**		**Units: ug/L**		
DieselRangeOrganics	210	50		1		10/27/014:42	AM	882973
Surr:n-Pentacosane	58.6	%20-150		1		10/27/014:42	AM	882973
GASOLINERANGEORGANICS			**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	2300	500		10		10/25/0117:39	D_R	879163
Surr:1,4-Difluorobenzene	130	%62-144		10		10/25/0117:39	D_R	879163
Surr:4-Bromofluorobenzene	105	%44-153		10		10/25/0117:39	D_R	879163
PURGEABLEAROMATICS			**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	630	5		10		10/25/0117:39	D_R	878983
Ethylbenzene	8.2	0.5		1		10/22/010:22	D_R	871747
Methyltert-butylether	1800	20		10		10/25/0117:39	D_R	878983
Toluene	2.5	0.5		1		10/22/010:22	D_R	871747
m,p-Xylene	2.5	0.5		1		10/22/010:22	D_R	871747
o-Xylene	0.84	0.5		1		10/22/010:22	D_R	871747
Xylenes,Total	3.34	0.5		1		10/22/010:22	D_R	871747
Surr:1,4-Difluorobenzene	112	%72-137		10		10/25/0117:39	D_R	878983
Surr:1,4-Difluorobenzene	170MI	%72-137		1	*	10/22/010:22	D_R	871747
Surr:4-Bromofluorobenzene	98.3	%48-156		10		10/25/0117:39	D_R	878983
Surr:4-Bromofluorobenzene	141	%48-156		1		10/22/010:22	D_R	871747
SILICAGELCLEANUP			**MCL**	**SW3630C**		**Units:**		
DatePerformed	10/19/01	0		1		10/19/010:00	KL	872141

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Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

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ClientSampleID MW6 **Collected:** 10/15/013:25:00 **SPLSampleID:** 01100704-11

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
DIESELRANGEORGANICS		**MCL**	**CA_DRO**		**Units: ug/L**		
DieselRangeOrganics	1100	50	1		10/27/015:20	AM	882975
Surr:n-Pentacosane	41.8	%20-150	1		10/27/015:20	AM	882975
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	27000	1200	25		10/22/010:48	D_R	871768
Surr:1,4-Difluorobenzene	119	%62-144	25		10/22/010:48	D_R	871768
Surr:4-Bromofluorobenzene	128	%44-153	25		10/22/010:48	D_R	871768
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	ND	12	25		10/24/017:01	D_R	875657
Ethylbenzene	ND	12	25		10/24/017:01	D_R	875657
Methyltert-butylether	790	500	250		10/25/0118:05	D_R	878986
Toluene	ND	12	25		10/24/017:01	D_R	875657
m,p-Xylene	ND	12	25		10/24/017:01	D_R	875657
o-Xylene	ND	12	25		10/24/017:01	D_R	875657
Xylenes,Total	ND	12	25		10/24/017:01	D_R	875657
Surr:1,4-Difluorobenzene	120	%72-137	25		10/24/017:01	D_R	875657
Surr:1,4-Difluorobenzene	101	%72-137	250		10/25/0118:05	D_R	878986
Surr:4-Bromofluorobenzene	93.8	%48-156	25		10/24/017:01	D_R	875657
Surr:4-Bromofluorobenzene	94.8	%48-156	250		10/25/0118:05	D_R	878986
SILICAGELCLEANUP		**MCL**	**SW3630C**		**Units:**		
DatePerformed	10/19/01	0	1		10/19/010:00	KL	872143

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Qualifiers:

ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

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ClientSampleID MW11 **Collected:** 10/15/013:35:00 **SPLSampleID:** 01100704-12

Site: 70104

Analyses/Method	Result	Rep.Limit	Dil.Factor	QUAL	DateAnalyzed	Analyst	Seq.#
DIESELRANGEORGANICS		**MCL**	**CA_DRO**		**Units: ug/L**		
DieselRangeOrganics	1400	50	1		10/27/0114:13	AM	882998
Surr:n-Pentacosane	33.6	%20-150	1		10/27/0114:13	AM	882998
GASOLINERANGEORGANICS		**MCL**	**CA_GRO**		**Units: ug/L**		
GasolineRangeOrganics	55000	1200	25		10/22/011:14	D_R	871769
Surr:1,4-Difluorobenzene	120	%62-144	25		10/22/011:14	D_R	871769
Surr:4-Bromofluorobenzene	121	%44-153	25		10/22/011:14	D_R	871769
PURGEABLEAROMATICS		**MCL**	**SW8021B**		**Units: ug/L**		
Benzene	5100	12	25		10/22/011:14	D_R	871748
Ethylbenzene	1900	12	25		10/22/011:14	D_R	871748
Methyltert-butylether	2600	50	25		10/22/011:14	D_R	871748
Toluene	5700	12	25		10/22/011:14	D_R	871748
m,p-Xylene	6600	12	25		10/22/011:14	D_R	871748
o-Xylene	2500	12	25		10/22/011:14	D_R	871748
Xylenes,Total	9100	12	25		10/22/011:14	D_R	871748
Surr:1,4-Difluorobenzene	134	%72-137	25		10/22/011:14	D_R	871748
Surr:4-Bromofluorobenzene	110	%48-156	25		10/22/011:14	D_R	871748
SILICAGELCLEANUP		**MCL**	**SW3630C**		**Units:**		
DatePerformed	10/19/01	0	1		10/19/010:00	KL	872147

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Qualifiers:

ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
*-SurrogateRecoveryOutsideAdvisableQCLimits
J-EstimatedValuebetweenMDLandPQL
>MCL-ResultOverMaximumContaminationLimit(MCL)
D-SurrogateRecoveryUnreportableduetoDilution
MI-MatrixInterference

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QualityControlReport

EXXONCompanyU.S.A.

250613X

Analysis:	SilicaGelCleanup	**WorkOrder:**	**01100704**
Method:	SW3630C	**LabBatchID:**	**R45898**

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-03B	MW8
01100704-10B	MW3
01100704-11B	MW6
01100704-12B	MW11

Qualifiers:	ND/U-NotDetectedattheReportingLimit	MI-MatrixInterference
	B-AnalytedetectedintheassociatedMethodBlank	D-RecoveryUnreportableduetoDilution
	J-EstimatedvaluebetweenMDLandPQL	*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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QualityControlReport

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250613X

Analysis: DieselRangeOrganics **WorkOrder:** 01100704
Method: CA_DRO **LabBatchID:** 15488

MethodBlank

RunID: HP_V_011026A-882954 Units: mg/L
AnalysisDate: 10/26/200123:00 Analyst: AM
PreparationDate: 10/18/200110:53 PrepBy: KL Method SW3510B

Analyte	Result	RepLimit
Diesel Range Organics	ND	0.050
Surr: n-Pentacosane	77.4	20-150

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-03B	MW8
01100704-10B	MW3
01100704-11B	MW6
01100704-12B	MW11

LaboratoryControlSample(LCS)

RunID: HP_V_011026A-882956 Units: mg/L
AnalysisDate: 10/26/200123:38 Analyst: AM
PreparationDate: 10/18/200110:53 PrepBy: KL Method SW3510B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
DieselRangeOrganics	2.5	2.2	86	21	175

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100704-03
RunID: HP_V_011026A-882961 Units: mg/L
AnalysisDate: 10/27/20010:54 Analyst: AM
PreparationDate: 10/18/200110:53 PrepBy: KL Method SW3510B

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
DieselRangeOrganics	2.2	5	3.6	28.7	5	3.5	25.9	9.94	20	21	175

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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QualityControlReport

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250613X

Analysis: PurgeableAromatics
Method: SW8021B
WorkOrder: 01100704
LabBatchID: R45876

MethodBlank

RunID: HP_R_011021A-871735 Units: ug/L
AnalysisDate: 10/21/200113:47 Analyst: D_R

Analyte	Result	RepLimit
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	92.7	72-137
Surr: 4-Bromofluorobenzene	99.7	48-156

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-01A	TB10/3/01
01100704-02A	BB
01100704-03A	MW8
01100704-04A	MW9
01100704-05A	MW1
01100704-07A	MW7
01100704-08A	MW2
01100704-10A	MW3
01100704-12A	MW11

LaboratoryControlSample(LCS)

RunID: HP_R_011021A-871734 Units: ug/L
AnalysisDate: 10/21/200112:55 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	57	113	70	130
Ethylbenzene	50	54	109	70	130
Methyltert-butylether	50	47	94	70	130
Toluene	50	57	114	70	130
m,p-Xylene	100	110	108	70	130
o-Xylene	50	54	109	70	130
Xylenes,Total	150	164	109	70	130

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100704-03
RunID: HP_R_011021A-871738 Units: ug/L
AnalysisDate: 10/21/200115:47 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	28	140	20	28	138	1.49	21	32	164

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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QualityControlReport

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250613X

Analysis: PurgeableAromatics **WorkOrder:** 01100704
Method: SW8021B **LabBatchID:** R45876

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100704-03
RunID: HP_R_011021A-871738 Units: ug/L
AnalysisDate: 10/21/200115:47 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
Ethylbenzene	ND	20	25	124	20	25	123	1.43	19	52	142
Methyltert-butylether	ND	20	23	116	20	23	113	2.84	20	39	150
Toluene	ND	20	27	136	20	27	135	0.629	20	38	159
m,p-Xylene	ND	40	45	113	40	44	110	2.16	17	53	144
o-Xylene	ND	20	24	118	20	23	116	1.57	18	53	143
Xylenes,Total	ND	60	69	115	60	67	112	2.94	18	53	144

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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QualityControlReport

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250613X

Analysis: GasolineRangeOrganics **WorkOrder:** 01100704
Method: CA_GRO **LabBatchID:** R45877

MethodBlank

RunID: HP_R_011021B-871802 Units: mg/L
AnalysisDate: 10/21/200113:47 Analyst: D_R

Analyte	Result	RepLimit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	99.0	62-144
Surr: 4-Bromofluorobenzene	103.3	44-153

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-01A	TB10/3/01
01100704-02A	BB
01100704-03A	MW8
01100704-04A	MW9
01100704-05A	MW1
01100704-07A	MW7
01100704-08A	MW2
01100704-09A	MW5
01100704-11A	MW6
01100704-12A	MW11

LaboratoryControlSample(LCS)

RunID: HP_R_011021B-871754 Units: mg/L
AnalysisDate: 10/21/200113:21 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
GasolineRangeOrganics	1	0.77	77	70	130

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100704-04
RunID: HP_R_011021B-871758 Units: mg/L
AnalysisDate: 10/21/200116:56 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
GasolineRangeOrganics	ND	0.9	0.85	94.5	0.9	0.86	95.4	0.960	36	36	160

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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QualityControlReport

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250613X

Analysis: PurgeableAromatics **WorkOrder:** 01100704
Method: SW8021B **LabBatchID:** R46016

MethodBlank

RunID: HP_R_011022D-874128 Units: ug/L
AnalysisDate: 10/23/20010:40 Analyst: D_R

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-06A	MW4
01100704-07A	MW7
01100704-08A	MW2

Analyte	Result	RepLimit
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	100.2	72-137
Surr: 4-Bromofluorobenzene	100.1	48-156

LaboratoryControlSample(LCS)

RunID: HP_R_011022D-874127 Units: ug/L
AnalysisDate: 10/22/200123:48 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	57	113	70	130
Ethylbenzene	50	54	108	70	130
Methyltert-butylether	50	47	94	70	130
Toluene	50	57	114	70	130
m,p-Xylene	100	110	106	70	130
o-Xylene	50	54	107	70	130
Xylenes,Total	150	164	109	70	130

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100708-08
RunID: HP_R_011022D-874129 Units: ug/L
AnalysisDate: 10/23/20011:07 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20	99.5	20	22	108	8.22	21	32	164

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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250613X

Analysis: PurgeableAromatics **WorkOrder:** 01100704
Method: SW8021B **LabBatchID:** R46016

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100708-08
RunID: HP_R_011022D-874129 Units: ug/L
AnalysisDate: 10/23/20011:07 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
Ethylbenzene	ND	20	18	88.9	20	19	96.8	8.47	19	52	142
Methyltert-butylether	ND	20	20	102	20	22	108	5.67	20	39	150
Toluene	ND	20	20	99.4	20	21	107	7.15	20	38	159
m,p-Xylene	ND	40	35	86.7	40	37	93.7	7.74	17	53	144
o-Xylene	ND	20	19	93.9	20	20	102	8.52	18	53	143
Xylenes,Total	ND	60	54	90.0	60	57	95.0	5.41	18	53	144

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

Thepercentrecoveriesfor QCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
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(713)660-0901

QualityControlReport

EXXONCompanyU.S.A.

250613X

Analysis: GasolineRangeOrganics **WorkOrder:** 01100704
Method: CA_GRO **LabBatchID:** R46020

MethodBlank

RunID: HP_R_011022E-874178 Units: mg/L
AnalysisDate: 10/23/20010:40 Analyst: D_R

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-06A	MW4

Analyte	Result	RepLimit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	95.7	62-144
Surr: 4-Bromofluorobenzene	100.3	44-153

LaboratoryControlSample(LCS)

RunID: HP_R_011022E-874169 Units: mg/L
AnalysisDate: 10/23/20010:14 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
GasolineRangeOrganics	1	0.74	74	70	130

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100708-09
RunID: HP_R_011022E-874171 Units: mg/L
AnalysisDate: 10/23/20011:59 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
GasolineRangeOrganics	0.13	0.9	0.67	59.5	0.9	0.69	62.0	4.06	36	36	160

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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QualityControlReport

EXXONCompanyU.S.A.

250613X

Analysis: PurgeableAromatics **WorkOrder:** 01100704
Method: SW8021B **LabBatchID:** R46091

MethodBlank

RunID: HP_R_011023A-875637 Units: ug/L
AnalysisDate: 10/23/200120:36 Analyst: D_R

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-09A	MW5
01100704-11A	MW6

Analyte	Result	RepLimit
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	93.9	72-137
Surr: 4-Bromofluorobenzene	94.1	48-156

LaboratoryControlSample(LCS)

RunID: HP_R_011023A-875636 Units: ug/L
AnalysisDate: 10/23/200119:44 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	55	109	70	130
Ethylbenzene	50	51	102	70	130
Methyltert-butylether	50	45	89	70	130
Toluene	50	54	108	70	130
m,p-Xylene	100	100	102	70	130
o-Xylene	50	51	101	70	130
Xylenes,Total	150	151	101	70	130

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100642-01
RunID: HP_R_011023A-875638 Units: ug/L
AnalysisDate: 10/23/200121:03 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	1.2	20	27	131	20	27	131	0.138	21	32	164

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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(713)660-0901

QualityControlReport

EXXONCompanyU.S.A.

250613X

Analysis: PurgeableAromatics **WorkOrder:** 01100704
Method: SW8021B **LabBatchID:** R46091

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100642-01
RunID: HP_R_011023A-875638 Units: ug/L
AnalysisDate: 10/23/200121:03 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
Ethylbenzene	ND	20	25	119	20	24	117	1.42	19	52	142
Methyltert-butylether	ND	20	22	107	20	22	106	0.511	20	39	150
Toluene	5.1	20	30	126	20	30	126	0.371	20	38	159
m,p-Xylene	5.4	40	49	108	40	47	105	3.31	17	53	144
o-Xylene	6.6	20	29	112	20	29	110	1.41	18	53	143
Xylenes,Total	12	60	78	110	60	76	107	3.08	18	53	144

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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QualityControlReport

EXXONCompanyU.S.A.

250613X

Analysis: PurgeableAromatics **WorkOrder:** 01100704
Method: SW8021B **LabBatchID:** R46135

MethodBlank

RunID: HP_R_011024A-876324 Units: ug/L
AnalysisDate: 10/24/200113:43 Analyst: D_R

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-10A	MW3
01100704-11A	MW6

Analyte	Result	RepLimit
Benzene	ND	0.50
Methyl tert-butyl ether	ND	2.0
Surr: 1,4-Difluorobenzene	103.2	72-137
Surr: 4-Bromofluorobenzene	94.9	48-156

LaboratoryControlSample(LCS)

RunID: HP_R_011024A-876323 Units: ug/L
AnalysisDate: 10/24/200112:50 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	56	113	70	130
Methyltert-butylether	50	43	86	70	130

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 01100627-04
RunID: HP_R_011024A-878988 Units: ug/L
AnalysisDate: 10/25/200118:58 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	81	20	97	76.1	20	97	77.9	2.35	21	32	164
Methyltert-butylether	11	20	29	88.4	20	30	92.3	4.27	20	39	150

Qualifiers:
ND/U-NotDetectedattheReportingLimit
8-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
MI-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

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QualityControlReport

EXXONCompanyU.S.A.

250613X

Analysis: GasolineRangeOrganics **WorkOrder:** 01100704
Method: CA_GRO **LabBatchID:** R46189

MethodBlank

RunID: HP_R_011024B-877537 Units: mg/L
AnalysisDate: 10/24/200113:43 Analyst: D_R

SamplesinAnalyticalBatch:

LabSampleID	ClientSampleID
01100704-10A	MW3

Analyte	Result	RepLimit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	99.0	62-144
Surr: 4-Bromofluorobenzene	95.7	44-153

LaboratoryControlSample(LCS)

RunID: HP_R_011024B-877535 Units: mg/L
AnalysisDate: 10/24/200113:16 Analyst: D_R

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
GasolineRangeOrganics	1	0.78	78	70	130

MatrixSpike(MS)/MatrixSpikeDuplicate(MSD)

SampleSpiked: 0110627-06A
RunID: HP_R_011024B-877544 Units: mg/L
AnalysisDate: 10/25/20011:06 Analyst: D_R

Analyte	Sample Result	MS Spike Added	MSResult	MS% Recovery	MSD Spike Added	MSDResult	MSD% Recovery	RPD	RPD Limit	Low Limit	High Limit
GasolineRangeOrganics	ND	0.9	0.89	99.0	0.9	0.95	105	6.13	36	36	160

Qualifiers:
ND/U-NotDetectedattheReportingLimit
B-AnalytedetectedintheassociatedMethodBlank
J-EstimatedvaluebetweenMDLandPQL
M!-MatrixInterference
D-RecoveryUnreportableduetoDilution
*-RecoveryOutsideAdvisableQCLimits

ThepercentrecoveriesforQCsamplesarecorrectasreported.Duetosignificantfiguresand rounding,thereportedRPDmaydifferfromthedisplayedRPDvaluesbutiscorrectasreported.

SampleReceiptChecklist

And

ChainofCustody

HOUSTONLABORATORY
8880INTERCHANGEDRIVE
HOUSTON,TX77054
(713)660-0901

SampleReceiptChecklist

Workorder:	01100704	ReceivedBy:	DS
DateandTimeReceived:	10/17/019:45:00AM	Carriername:	FedEx
Temperature:	2	Chilledby:	Waterice

1.	Shippingcontainer/cooleringoodcondition?	Ye	☑	No ☐	NotPresent	☐
2.	Custodysealsintactonshipppingcontainer/cooler?	Ye	☐	No ☐	NotPresent	☑
3.	Custodysealsintactonsamplebottles?	Ye	☐	No ☐	NotPresent	☑
4.	Chainofcustodypresent?	Ye	☑	No ☐		
5.	Chainofcustodysignedwhenrelinquishedandreceiv	Ye	☑	No ☐		
6.	Chainofcustodyagreeswithsamplelabels? 1.SampleIDiswrittenonCOCasMW-1butcontainerhasMW-11	Ye	☐	No ☑		
7.	Samplesinpropercontainer/bottle?	Ye	☑	No ☐		
8.	Samplecontainersintact?	Ye	☑	No ☐		
9.	Sufficientsamplevolumeforindicatedtest?	Ye	☑	No ☐		
10.	Allsamplesreceivedwithinholdingtime?	Ye	☑	No ☐		
11.	Container/TempBlanktemperatureincompliance?	Ye	☑	No ☐		
12.	Water-VOAvialshavezeroheadspace	Ye	☑	No ☐	NotApplicable	☐
13.	Water-pHacceptableuponreceipt?	Ye	☑	No ☐	NotApplicable	☐

SPLRepresentative: Wyatt,Neaundra **ContactDate&Time:** 10/19/0112:00:00PM

ClientNameContacted: ScottGraham

NonConformance Issues: 1.LoggedinperCOC

ClientInstructions: PerScottGrahamthecorrectsampleIDforthesamplecollectedat1535isMW11.

011007Q4

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: Scott Graham
Address: 73 Digital Dr Fax: 415-382-1856
Suite 100 Novato CA 94949
RAS #: 20104 Facility/State ID # (TN Only): _____
AFE # (Terminal Only): _____ Consultant Project #: 250613X
Location: 1720 Park Street (City) Alameda (State) CA
☐ EE ☐ C&M ☐ SDT
Consultant Work Release #: 21040341
Sampled By: Jessica

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	OXYGENATES (7) 8260	O&G IR 413.1	GRAV. 413.2	VOL 8260	SEMI-VOL 8270	PNA/PAH 8100	PCB/PEST 8080/8082	PCB ONLY	TCLP FULL VOA, SEMIVOA, PEST, HERB	METALS TOTAL	METALS TCLP	LEAD TOTAL 239.1	LEAD TCLP 7421	LEAD TOTAL	LEAD DISSOLVED	REACTIVITY	CORROSIVITY	FLASH POINT	PURGEABLE HYDROCARBON 8010	TPH/IR 418.1	TOXICITY
TB									HCl	2	40ml																								
BB	10501	1400							HCl	2	40ml																								
MW8		1410							HCl/H2O	3/2	40/1L																								
MW9		1415							HCl	3	40ml																								
MW1		1425								3																								
MW4		1435								3																								
MW7		1445								3																								
MW2		1455								3																								
MW5		1505							✓	3	✓																								
MW3	✓	1515		✓					HCl/H2O	3/2	40/1L	✓	✓	✓																				

TAT
24 HR. ___ 72 HR. ___
48 HR. ___ 96 HR. ___
5 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 ☐ X EDD
FAX ☐ ☐ FAX C-O-C W/REPORT

REMARKS:
Silica gel cleanup on diesel (MW8, MW3, MW9 and MW1)

LAB USE ONLY Lot # Storage Location
NP 2°
WORK ORDER #: 011007Q4 LAB WORK RELEASE #: 21040341

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler:	10-16-01	1300	Received By:
Relinquished:			Received By:
Relinquished:			Received By:
			Way Bill #: Courier Cooler Temp: 10/17/01 945

Triplicate Original · White Lab's Copy · Green Client Copy · Yellow

01100704

EXXON COMPANY, USA. (West Coast)

CHAIN OF CUSTODY RECORD NO. _____ Page 2 of 2

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

Consultant Co. Name: ERI Contact: Scott Graham

Address: 23 Digital Dr Fax: 415-352-1856
Suite 100 Novato CA 94949

RAS #: 20104 Facility/State ID # (TN Only): _____

AFE # (Terminal Only): _____ Consultant Project #: 250613X

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

Consultant Work Release #: 21040341

Sampled By: _____

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/GRO: 8015 GRO X (8015 DRO X)	BTEX 8020 X	MTBE 8020 X	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+ 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 ☐
MW6	10-15-01	1525		↓	↓				HCl/H2O	3/2	40 ml	↓	↓	↓														
MW1	↓	1535		↓	↓				↓	↓	↓																	
												↓	↓	↓															

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: Silica gel clean up for diesel (mw8, mw3 mw6, and mw1)

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ EDD ☑

FAX ☐ ☐ FAX C-O-C W/REPORT

LAB USE ONLY Lot # Storage Location

WORK ORDER #: LAB WORK RELEASE #:

QA/QC Level
Standard X CLP ☐ Other ☐ _____

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler:	10-16-01	1300	Received By:
Relinquished:			Received By:
Relinquished:			Received By:

Way Bill #: _____ Cooler Temp: 10-17-01 945

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

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

Case Narrative for:

EXXON Company U.S.A.

Certificate of Analysis Number:

01120607

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:	12/20/01	

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.

12/20/01

Sonia West
Senior Project Manager

Date

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

EXXON Company U.S.A.

Certificate of Analysis Number:

01120607

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: 12/20/01

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
A-INF	01120607-01	Air	12/12/01 11:40:00 AM	12/14/01 10:00:00 AM		☐
A-INT	01120607-02	Air	12/12/01 11:35:00 AM	12/14/01 10:00:00 AM		☐
A-EFF	01120607-03	Air	12/12/01 11:30:00 AM	12/14/01 10:00:00 AM		☐

Sonia West
Senior Project Manager

12/20/01
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:

01120607

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:	12/20/01	

Client Sample ID: A-INF **SPL Sample ID:** 01120607-01A

Analyte	mg/m³		ppm(v)	
	Result	PQL	Result	PQL
Benzene	1.3	1.0	0.40	0.31
Toluene	1.8	1.0	0.47	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	45	10	13	2.8

Client Sample ID: A-INT **SPL Sample ID:** 01120607-02A

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

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8880 INTERCHANGE DRIVE
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(713) 660-0901

EXXON Company U.S.A.

Certificate of Analysis Number:

01120607

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:	12/20/01	

Client Sample ID: A-EFF **SPL Sample ID:** 01120607-03A

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

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HOUSTON, TX 77054
(713) 660-0901

Client Sample ID A-INF **Collected:** 12/12/01 11:40:0 **SPL Sample ID:** 01120607-01

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	1.3		1.0	1		12/18/01 18:46	TM	954867
Toluene	1.8		1.0	1		12/18/01 18:46	TM	954867
Ethylbenzene	ND		1.0	1		12/18/01 18:46	TM	954867
m,p-Xylene	ND		1.0	1		12/18/01 18:46	TM	954867
o-Xylene	ND		1.0	1		12/18/01 18:46	TM	954867
Xylenes,Total	ND		1.0	1		12/18/01 18:46	TM	954867
Surr: 1,4-Difluorobenzene	90.2	%	20-150	1		12/18/01 18:46	TM	954867
Surr: 4-Bromofluorobenzene	69.1	%	58-139	1		12/18/01 18:46	TM	954867
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	45		10	1		12/18/01 18:46	TM	954910
Surr: 1,4-Difluorobenzene	94.0	%	62-144	1		12/18/01 18:46	TM	954910
Surr: 4-Bromofluorobenzene	112	%	44-153	1		12/18/01 18:46	TM	954910

Sonia West

Sonia West
Project Manager

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

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

Client Sample ID A-INT **Collected:** 12/12/01 11:35:0 **SPL Sample ID:** 01120607-02

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		12/18/01 19:16	TM	954868
Toluene	ND		1.0	1		12/18/01 19:16	TM	954868
Ethylbenzene	ND		1.0	1		12/18/01 19:16	TM	954868
m,p-Xylene	ND		1.0	1		12/18/01 19:16	TM	954868
o-Xylene	ND		1.0	1		12/18/01 19:16	TM	954868
Xylenes,Total	ND		1.0	1		12/18/01 19:16	TM	954868
Surr: 1,4-Difluorobenzene	93.8	%	20-150	1		12/18/01 19:16	TM	954868
Surr: 4-Bromofluorobenzene	75.1	%	58-139	1		12/18/01 19:16	TM	954868
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		12/18/01 19:16	TM	954911
Surr: 1,4-Difluorobenzene	102	%	62-144	1		12/18/01 19:16	TM	954911
Surr: 4-Bromofluorobenzene	102	%	44-153	1		12/18/01 19:16	TM	954911

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

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

Client Sample ID A-EFF **Collected:** 12/12/01 11:30:0 **SPL Sample ID:** 01120607-03

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		12/18/01 19:45	TM	954869
Toluene	ND		1.0	1		12/18/01 19:45	TM	954869
Ethylbenzene	ND		1.0	1		12/18/01 19:45	TM	954869
m,p-Xylene	ND		1.0	1		12/18/01 19:45	TM	954869
o-Xylene	ND		1.0	1		12/18/01 19:45	TM	954869
Xylenes,Total	ND		1.0	1		12/18/01 19:45	TM	954869
Surr: 1,4-Difluorobenzene	94.5	%	20-150	1		12/18/01 19:45	TM	954869
Surr: 4-Bromofluorobenzene	68.0	%	58-139	1		12/18/01 19:45	TM	954869
TOTAL PETROLEUM PRODUCT IN AIR			**MCL**	**SW8015B**		**Units: mg/m³**		
TPH Air	ND		10	1		12/18/01 19:45	TM	954912
Surr: 1,4-Difluorobenzene	103	%	62-144	1		12/18/01 19:45	TM	954912
Surr: 4-Bromofluorobenzene	100	%	44-153	1		12/18/01 19:45	TM	954912

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, TX 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Purgeable Aromatics in Air
Method: SW8020A
WorkOrder: 01120607
Lab Batch ID: R50126

Method Blank

RunID: HP_P_011218A-954864 Units: mg/m³
Analysis Date: 12/18/2001 14:27 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01120607-01A	A-INF
01120607-02A	A-INT
01120607-03A	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	96.0	20-150
Surr: 4-Bromofluorobenzene	71.4	58-139

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

RunID: HP_P_011218A-954862 Units: mg/m³
Analysis Date: 12/18/2001 13:30 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	67	105	64	71	111	5.2	34	37	117
Ethylbenzene	88	79	90	88	82	94	4.5	35	56	115
Toluene	80	76	95	80	79	99	3.6	30	25	113
m,p-Xylene	88	74	84	88	78	88	4.7	35	12	114
o-Xylene	88	74	84	88	81	92	9.2	35	15	109
Xylenes,Total	176	148	84	176	159	90	7.2	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, TX 77054
(713) 660-0901

Quality Control Report

EXXON Company U.S.A.

2506-11X

Analysis: Total Petroleum Product in Air
Method: SW8015B
WorkOrder: 01120607
Lab Batch ID: R50128

Method Blank

RunID: HP_P_011218B-954907 Units: mg/m³
Analysis Date: 12/18/2001 14:27 Analyst: TM

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
01120607-01A	A-INF
01120607-02A	A-INT
01120607-03A	A-EFF

Analyte	Result	Rep Limit
TPH Air	ND	10
Surr: 1,4-Difluorobenzene	99.3	62-144
Surr: 4-Bromofluorobenzene	108.0	44-153

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

RunID: HP_P_011218B-954905 Units: mg/m³
Analysis Date: 12/18/2001 13:30 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	400	52	770	410	53	2.6	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, TX 77054
(713) 660-0901

Sample Receipt Checklist

Workorder:	01120607	Received By:	DS
Date and Time Received:	12/14/01 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: _____

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 STE 10 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 #: 21040341

Sampled By: JEFF CICHOCKI

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 ☐ 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	12/12/01	1140		X			X		—	1	1L	X	X																
A-INT	12/12/01	1135		X			X		—	1	1L	X	X																
A-EFF	12/12/01	1130		X			X		—	1	1L	X	X																

ANALYSIS REQUEST: (CHECK APPROPRIATE BOX) — OTHER

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 ☐ CLP ☐ Other ☐ _____

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

PDF ☐ ☐ EDD

FAX ☐ ☐ FAX C-O-C W/REPORT

REMARKS:

LAB USE ONLY Lot # Storage Location

WORK ORDER #: 01120607 LAB WORK RELEASE #: 21040341

CUSTODY RECORD

	Date	Time	
Relinquished By Sampler:	12/13/01	0800	Received By:
Relinquished:	Date	Time	Received By:
Relinquished:	Date	Time	Received By: 12/14/01 10:00

Way Bill #: _____ Cooler Temp: AMBIENT

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
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
	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: JO'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 acfm	Vapor flow lb.	Calc. 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

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

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

21 x 60 x 95 x 0.98 x 0.97 x 0.0283 x 1.050 x1/454 = 7.4 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)