EXXON COMPANY, U.S.A.

P.O. BOX 4032 • CONCORD, CA 94524-4032
MARKETING DEPARTMENT • ENVIRONMENTAL ENGINEERING

MARLA D. GUENSLER
SENIOR ENGINEER

(925) 246-8776
(925) 246-8798 FAX

July 28, 1998

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

RE: Former Exxon RAS #7-3006/720 High Street, Oakland, California.

Dear Mr. Chan:

Attached for your review and comment is a report entitled ***Quarterly Groundwater Monitoring and Remediation Status Report, Second Quarter 1998***, dated July 31, 1998, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of groundwater monitoring and sampling and remedial activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8776.

Sincerely,

Marla D. Guensler
Senior Engineer

MDG/tjm

Attachment: ERI's Quarterly Groundwater Monitoring and Remediation Status Report, Second Quarter 1998, dated July 31, 1998

cc: w/attachment
Mr. Stephen Hill - California Regional Water Quality Control Board - San Francisco Bay Region

w/o attachment
Mr. Mark S. Dockum - ERI

ENVIRONMENTAL RESOLUTIONS, INC.

July 31, 1998
ERI 201011.R16

#136

Ms. Marla D. Guensler
Exxon Company, U.S.A.
Post Office Box 4032
Concord, California 94524-4032

Subject: Quarterly Groundwater Monitoring and Remediation Status Report, Second Quarter 1998, Former Exxon Service Station 7-3006, 720 High Street, Oakland, California.

Ms. Guensler:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) performed remedial activities and groundwater monitoring for the second quarter 1998 at the subject site (Plate 1). The purpose of ongoing remedial activities is to remove residual hydrocarbons from soil and dissolved hydrocarbons from groundwater. The purpose of quarterly monitoring is to evaluate hydrocarbon concentrations in groundwater, the capture zone caused by groundwater pumping, and the effectiveness of remedial actions.

GROUNDWATER MONITORING AND SAMPLING

On June 23, 1998, ERI measured the depth to water (DTW) and collected groundwater samples for laboratory analysis from monitoring wells MW1 through MW4, and MW6 through MW15. Monitoring well MW5 was previously destroyed. ERI's groundwater sampling protocol is attached (Attachment A).

Due to ongoing air sparge/soil vapor extraction (AS/SVE) remediation activities, groundwater elevations and gradient may not be indicative of actual conditions.

Laboratory Analyses and Results

Groundwater samples were submitted to Sequoia Analytical (California State Certification Number 1210) in Redwood City, California, under chain of custody protocol. The samples were analyzed for total purgeable petroleum hydrocarbons as gasoline (TPPHg), benzene, toluene, ethyl benzene, total xylenes (BTEX), methyl tertiary butyl ether (MTBE), and total extractable petroleum hydrocarbons as diesel (TEPHd). The specific methods of analysis are listed in the notes in Table 1. The results of analysis are tabulated in Table 1 and are shown on Plate 2. The laboratory analysis reports and chain of custody records are attached (Attachment B).

SOIL AND GROUNDWATER REMEDIATION

Air Sparging/Soil Vapor Extraction

ERI initiated operation of the AS/SVE system in August, 1996, utilizing the thermal/catalytic oxidizer. Cumulative operational and performance data are presented in Table 2. Copies of the Reports of Laboratory Analysis and Chain of Custody Records for soil vapor-extraction system samples collected during the reporting period are attached (Attachment B).

The AS/SVE system currently consists of six AS wells for air injection and vadose wells for SVE within an on-site interceptor trench, a water knock-out tank, a Thermtech VAC-25 thermal/catalytic oxidizer, a Gast air compressor, and a propane tank for supplemental fuel. The AS/SVE system is operated in a continuous mode within the trench.

Groundwater Extraction And Treatment

The groundwater remediation system (GRS) is designed to treat separate-phase and dissolved hydrocarbons in groundwater extracted from the interceptor trench beneath the site. Pneumatic pumps are installed in extraction wells RW2 and RW5 to recover groundwater from the interceptor trench. Subsurface and above-ground collection piping are used to transfer extracted groundwater to a holding tank. A transfer pump and poly-vinyl chloride (PVC) piping are used to direct the water stream from the holding tank through water filters, an air stripper, and subsequently through liquid-phase granular activated carbon (GAC) canisters connected in series. The treated groundwater is discharged to the sanitary sewer regulated by East Bay Municipal Utilities District (EBMUD).

Between April 7, 1998, and June 24, 1998, the system recovered 98,738 gallons of groundwater from beneath the site. System flow rates, total volume extracted, and influent, intermediate, and effluent sample concentrations are presented in Table 3.

SUMMARY AND STATUS OF INVESTIGATION

Based on data collected to date, it appears the AS/SVE system and GRS are removing residual hydrocarbons in soil and dissolved hydrocarbons in groundwater. ERI estimates approximately 1 pound (less than one gallon) of residual hydrocarbons were removed by the AS/SVE system during the reporting period, and approximately 3,151 pounds (approximately 517 gallons) since start-up. The estimated of amount of hydrocarbons removed by the system was performed in accordance with the ERI standard operation procedures included an Attachment C. ERI estimates approximately 1 pound (less than one gallon) of dissolved hydrocarbons were removed by the GRS from April 7, 1998 to May 5, 1998, and approximately 9 pounds (approximately 2 gallons) since start up. ERI will continue to operate the remedial systems, monitor, and sample groundwater at the site during the third quarter 1998.

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 Exxon and any reliance on this report by third parties shall be at such party's sole risk.

If you have any questions or comments regarding this report, please call (415) 382-5991.

Sincerely,
Environmental Resolutions, Inc.

Scott R. Graham
Staff Geologist

Mark S. Dockum
R.G. 4412
C.E.G. 1675

Enclosures:

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

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TPHg	B	T	E	X	MTBE	TEPHd	VOCs
	<			> <	Micrograms per liter (ug/L)							>
MW1	1/20/94	NLPH	9.25	3.62								
(12.87)	02/02-03/94	NLPH	8.60	4.27	<50	<0.5	<0.5	<0.5	0.7	NA	70	NA
	3/10/94	NLPH	8.31	4.56								
	4/22/94	NLPH	7.95	4.92								
	05/10-11/94	NLPH	7.48	5.39	<50	<0.5	<0.5	<0.5	1.6	NA	100	NA
	6/27/94	NLPH	7.65	5.22								
	8/31/94	NLPH	9.39	3.48								
	9/29/94	NLPH	9.83	3.04	<50	<0.5	<0.5	<0.5	<0.5	NA	<50	NA
	10/25/94	NLPH	10.19	2.68	<50	<0.5	<0.5	<0.5	<0.5	<50	NA	NA
	11/30/94	NLPH	8.97	3.90								
	12/27/94	NLPH	7.44	5.43								
	2/6/95	NLPH	5.71	7.16	<50	0.52	<0.5	<0.5	<0.5	100	NA	NA
	6/7/95	NLPH	7.62	5.25	<50	<0.5	<0.5	<0.5	<0.5	3.5	81	NA
	9/18/95	NLPH	10.02	2.85	<50	<0.5	<0.5	<0.5	<0.5	6	82	NA
	11/1/95	NLPH	10.74	2.13	<50	<0.5	<0.5	<0.5	<0.5	8.9	160	NA
	2/14/96	NLPH	7.81	5.06	<50	<0.5	<0.5	<0.5	<0.5	7.8	100	NA
	6/19/96	NLPH	7.47	5.40	<50	<0.5	<0.5	<0.5	<0.5	7.1	93	NA
				Additional EHCss	<50							
	9/24/96	NLPH	10.42	2.45	<50	<0.5	<0.5	<0.5	<0.5	9.5	83	NA
	12/11/96	NLPH	8.50	4.37	<50	<0.5	<0.5	<0.5	<0.5	7.2	81	NA
	3/19/97	NLPH	9.14	3.73	<50	<0.5	<0.5	<0.5	<0.5	6.4	78	NA
	6/4/97	NLPH	9.82	3.05	<50	<0.5	<0.5	<0.5	<0.5	6.0	58	NA
	9/2/97	NLPH	10.26	2.61	<50	<0.5	<0.5	<0.5	<0.5	5.4	150	NA
	12/2/97	NLPH	9.32	3.55	<50	<0.5	<0.5	<0.5	<0.5	5.1	88	NA
	3/24/98	NLPH	6.44	6.43	<50	<0.5	<0.5	<0.5	<0.5	5.6	58	NA
	6/23/98	NLPH	9.23	3.64	<50	<0.5	<0.5	<0.5	<0.5	3.8	84	NA
MW2	1/20/94	NM [NR]	NM									
(12.98)	02/02-03/94	NM [NR]	NM	—								
	3/10/94	[8 c.]	6.96	6.02								
	4/22/94	[10 c.]	NM	—								
	05/10-11/94	[5 c.]	NM	—								
	6/27/94	Sheen	7.10	5.88								
	8/31/94	Sheen	8.58	4.40								
	9/29/94	Sheen	9.11	3.87								
	10/25/94	Sheen	7.76	5.22								
	11/30/94	NM	7.33	5.65								
	12/27/94	Sheen	6.77	6.21								
	2/6/95	Sheen	5.00	7.98								
	6/7/95	Sheen	7.14	5.84								
	9/18/95	Sheen	10.82	2.16								
	11/1/95	Sheen	11.65	1.33								
	2/14/96	Sheen	8.39	4.59								
	6/19/96	Sheen	6.55	6.43								
	9/24/96	Sheen	11.56	1.42								
	12/11/96	Sheen	8.02	4.96							—	
	3/19/97	Sheen	8.63	4.35								
	6/4/97	Sheen	10.57	2.41								
	9/2/97	Sheen	11.51	1.47								
	12/2/97	NLPH	11.24	1.74	1,400	15	2.8	8.6	<2.5	57	820	NA
	3/27/98	NLPH	6.06	6.92	7,400	1,400	350	490	1,500	<50	2,000	NA
	6/23/98	Sheen	11.06	1.92	180	3.2	0.55	0.92	1.3	9.5	2,900	NA
MW3	1/20/94	Sheen	8.24	4.68								
(12.92)	02/02-03/94	Sheen	7.68	5.24								
	3/10/94	Sheen	7.24	5.68								
	4/22/94	Sheen	6.79	6.13								
	05/10-11/94	Sheen	6.43	6.49								
	6/27/94	0.01 [NR]	6.97	5.95								
	8/31/94	Sheen	8.41	4.51								

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TPHg	B	T	E	X	MTBE	TEPHd	VOCs
	<			> <	Micrograms per liter (ug/L)							>
MW3 (cont.)	9/29/94	Sheen	8.97	3.95								
(12.92)	10/25/94	Sheen	9.43	3.49								
	11/28/94	NM	7.19	5.73								
	12/27/94	Sheen	6.64	6.28								
	2/6/95	Sheen	4.87	8.05								
	6/7/95	Sheen	7.05	5.87								
	9/18/95	Sheen	10.61	2.31								
	11/1/95	Sheen	11.58	1.34								
	2/14/96	Sheen	8.34	4.58								
	6/19/96	Sheen	6.35	6.57								
	9/24/96	Sheen	11.45	1.47								
	12/11/96	NLPH	7.89	5.03	4,800	340	<5.0	8.2	20	30	17,000*	NA
	3/19/97	NLPH	9.83	3.09	1,900	160	11	5.6	10	80	3,000	NA
	6/4/97	NLPH	10.43	2.49	920	15	2.8	2.4	<2.0	11	8,000	NA
	9/2/97	Sheen	12.45	0.47								
	12/2/97	NLPH	11.21	1.71	920	10	2.1	<1.0	2.7	21	6,700	NA
	3/24/98	NLPH	5.93	6.99	1,500	5,500	<5.0	<5.0	<5.0	25	4,600	NA
	6/23/98	NLPH	11.13	1.79	1,300	53	<1.0	<1.0	<1.0	9.4	39,000	NA
MW4												
(12.77)	1/20/94	NM [NR]	NM	---								
	02/02-03/94	NM [1 c.]	NM	---								
	3/10/94	[8 c.]	7.12	5.65								
	4/22/94	[10 c.]	NM	---								
	05/10-11/94	[5 c.]	NM	---								
	6/27/94	0.01 [NR]	6.50	6.27								
	8/31/94	0.02 [NR]	7.84	4.93								
	9/29/94	0.03 [NR]	8.43	4.34								
	10/25/94	Sheen	9.24	3.53								
	11/30/94	NM	6.77	6.00								
	12/27/94	Sheen	6.14	6.63								
	2/6/95	Sheen	4.87	7.90								
	6/7/95	Sheen	6.91	5.86								
	9/18/95	Sheen	9.59	3.18								
	11/1/95	Sheen	11.52	1.25								
	2/14/96	Sheen	8.56	4.21								
	6/19/96	Sheen	6.09	6.68								
	9/24/96	Sheen	10.20	2.57								
	12/11/96	Sheen	7.78	4.99								
	3/19/97	Sheen	8.56	4.21								
	6/4/97	Sheen	9.31	3.46								
	9/2/97	Sheen	10.00	2.77								
	12/2/97	NLPH	8.72	4.05	1,500	<2.5	9.7	3.0	10	50	15,000	NA
	3/24/98	NLPH	5.79	6.98	540	<0.5	4.4	1.6	5.4	38	6,400	NA
	6/23/98	Sheen	8.50	4.27	1,000	3.3	<2.0	<2.0	<2.0	25	7,500	NA
MW5	7/18/89		Well Destroyed									
MW6	1/20/94	NM [NR]	NM	---								
(14.27)	02/02-03/94	NM [NR]	NM	---								
	3/10/94	[¼ c.]	7.82	6.45								
	4/22/94	[10 c.]	NM	---								
	05/10-11/94	[3 c.]	NM	---								
	6/27/94	Sheen	7.77	6.50								
	8/31/94	Sheen	9.02	5.25								
	9/29/94	Sheen	9.51	4.76								
	10/25/94	Sheen	9.93	4.34								
	11/30/94	NM	8.05	6.22								
	12/27/94	NM	7.54	6.73								
	2/6/95	Sheen	5.86	8.41								

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHg	B	T	E	X	MTBE	TEPHd	VOCs
(TOC)	Date	<	feet	> <	Micrograms per liter (ug/L)							>
MW6 (cont.)	6/7/95	Sheen	8.07	6.20								
(14.27)	9/18/95	Sheen	10.54	3.73								
	11/1/95	Sheen	11.41	2.86								
	2/14/96	Sheen	9.17	5.10								
	6/19/96	Sheen	7.13	7.14								
	9/24/96	Sheen	11.24	3.03								
	12/11/96	NLPH	9.20	5.07	9,100	2,100	22	160	260	<100	2,900	NA
	3/19/97	NLPH	10.14	4.13	24,000	5,800	91	1,300	1,900	250	3,800	NA
	6/4/97	NLPH	10.58	3.69	20,000	4,400	<50	540	480	270	3,300	NA
	9/2/97	NLPH	11.02	3.25	8,100	1,800	<25	140	170	<25	2,100	NA
	12/2/97	NLPH	10.45	3.82	6,800	1,100	<20	77	74	<100	2,300	NA
	3/24/98	NLPH	7.09	7.18	20,000	4,300	<50	2,200	1,500	<250	3,800	NA
	6/23/98	Sheen	9.79	4.48	19,000	3,400	<100	1,800	1,100	<500	4,100	NA
MW7	1/20/94	NLPH	8.67	6.17								
(14.84)	02/02-03/94	NLPH	8.47	6.37	2,900	79	5	8.2	21	NA	1,300	NA
			Additional Analysis TOG:		4,701							
	3/10/94	NLPH	8.24	6.60								
	4/22/94	NLPH	7.95	6.89								
	05/10-11/94	NLPH	7.53	7.31	2,400	88	5.6	5.2	15	NA	1,300	NA
			Additional Analysis TOG:		1,400							
	6/27/94	NLPH	8.01	6.83								
	8/31/94	NLPH	9.19	5.65								
	9/29/94	NLPH	9.65	5.19	1,900	71	3.1	3.5	7.8	NA	56	NA
	10/25/94	NLPH	9.96	4.88	1,400	51	1.5	24	6.8	NA	89	NA
	11/30/94	NM	7.78	7.06						NA		
	12/27/94	NM	7.51	7.33								
	2/6/95	NLPH	5.79	9.05	2,500	130	<10	<10	<10	NA	1,300	ND
			Additional Analysis EHCss		1,100							
	6/7/95	NLPH	7.73	7.11	2,400	91	5	7.6	14	39	1,200	NA
			Additional Analysis EHCss		1,000							
	9/18/95	NLPH	9.81	5.03	1,800	17	<5.0	<5.0	<5.0	<25	1,100	NA
			Additional Analysis EHCss		870							
	11/1/95	NLPH	10.56	4.28	3,000	2.7	11	25	<2.5	<13	1,700	NA
			Additional Analysis EHCss		1,400							
	2/14/96	NLPH	8.04	6.80	1,900	59	<5.0	<5.0	<5.0	<25	1,200	NA
			Additional Analysis EHCss		940							
	6/19/96	NLPH	7.33	7.51	2,000	96	<5.0	<5.0	5.6	<25	1,400	ND
			Additional Analysis EHCss		1,000							
	9/24/96	NLPH	10.10	4.74	950	6.8	<5.0	<5.0	<5.0	<25	1,100	ND
			Additional Analysis EHCss		910							
	12/11/96	NLPH	8.50	6.34	2,500	50	<2.0	6.4	30	<10	1,600	ND
			Additional Analysis EHCss		1,100							
	3/19/97	NLPH	8.88	5.96	2,700	61	8.0	21	68	<25	840	ND
			Additional Analysis EHCss		580							
	6/4/97	NLPH	9.38	5.46	1,900	45	<2.0	5.3	13	<2.5	1,000	ND
			Additional Analysis EHCss		780							
	9/2/97	NLPH	9.69	5.15	1,700	28	2.2	<2.0	5.9	<2.5	790	ND
			Additional Analysis EHCss		740							
	12/2/97	NLPH	8.65	6.19	2,000	33	2.2	2.0	5.8	14	1,100	NA
	3/24/98	NLPH	6.40	8.44	2,300	73	<5.0	<5.0	22	<25	950	NA
	6/23/98	NLPH	8.34	6.50	4,700	50	<5.0	12	20	140	1,600	NA
MW8	1/20/94	Sheen	8.90	4.55								
(13.45)	02/02-03/94	Sheen	8.58	4.87								
	3/10/94	Sheen	7.16	6.29								
	4/22/94	Sheen	7.34	6.11								
	05/10-11/94	Sheen	7.04	6.41								
	6/27/94	Sheen	6.01	7.44								
	8/31/94	Sheen	9.26	4.19								

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHg	B	T	E	X	MTBE	TEPHd	VOCs
(TOC)	Date	<	feet	> <	Micrograms per liter (ug/L)							>
MW8 (cont.)	9/29/94	Sheen	9.76	3.69								
(13.45)	10/25/94	Sheen	10.05	3.40								
	11/30/94	NM	7.68	5.77								
	12/27/94	Sheen	7.11	6.34								
	2/6/95	Sheen	5.39	8.06								
	6/7/95	Sheen	7.53	5.92								
	9/18/95	Sheen	9.84	3.61								
	11/1/95	Sheen	10.47	2.98								
	2/14/96	Sheen	8.27	5.18								
	6/19/96	Sheen	6.88	6.57								
	9/24/96	Sheen	10.13	3.32								
	12/11/96	Sheen	8.53	4.92								
	3/19/97	Sheen	9.09	4.36								
	6/4/97	Sheen	9.52	3.93								
	9/2/97	NLPH	9.72	3.73	20,000	57	<50	850	660	<50	8,000	ND
	12/2/97	NLPH	8.83	4.62	6,900	83	<10	<10	100	130	2,700	NA
	3/24/98	NLPH	6.52	6.93	10,000	190	<25	470	330	<125	2,900	NA
	6/23/98	NLPH	9.02	4.43	10,000	140	<10	460	260	<50	3,700	NA
MW9	1/20/94	NM	NM	---								
(14.64)	02/02-03/94	NM	NM	---								
	3/10/94	NLPH	6.90	7.74								
	4/22/94	NLPH	7.38	7.26								
	05/10-11/94	NLPH	6.96	7.68								
	6/27/94	NLPH	7.65	6.99								
	8/31/94	NLPH	8.87	5.77								
	9/29/94	NLPH	9.19	5.45	<50	<0.5	<0.5	<0.5	<0.5	NA	<50	NA
	10/25/94	NLPH	9.66	4.98	<50	<0.5	<0.5	<0.5	<0.5	NA	<50	NA
	11/30/94	NM	8.38	6.26								
	12/27/94	NLPH	7.29	7.35								
	2/6/95	NLPH	5.74	8.90	<50	<0.5	<0.5	<0.5	<0.5	NA	56	NA
	6/7/95	NLPH	8.33	6.31	<50	<0.5	<0.5	<0.5	<0.5	<2.5	72	NA
	9/18/95	NLPH	9.28	5.36	<50	<0.5	<0.5	<0.5	<0.5	<2.5	60	NA
	11/1/95	NLPH	10.09	4.55	<50	<0.5	<0.5	<0.5	<0.5	<2.5	61	NA
	2/14/96	NLPH	6.26	8.38	<50	<0.5	<0.5	<0.5	<0.5	<2.5	83	NA
	6/19/96	NLPH	6.68	7.96	<50	<0.5	<0.5	<0.5	<0.5	<2.5	68	NA
			Additional Analysis EHCss		<50							
	9/24/96	NLPH	9.72	4.92	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
	12/11/96	NLPH	8.11	6.53	<50	<0.5	<0.5	<0.5	<0.5	<2.5	91	NA
	3/19/97	NLPH	7.72	6.92	<50	0.83	<0.5	<0.5	<0.5	<2.5	140	NA
	6/4/97	NLPH	8.87	5.77	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
	9/2/97	NLPH	9.44	5.20	<50	<0.5	<0.5	<0.5	<0.5	<2.5	140	NA
	12/2/97	NLPH	8.43	6.21	<50	<0.5	<0.5	<0.5	<0.5	<2.5	71	NA
	3/24/98	NLPH	5.84	8.80	<50	<0.5	<0.5	<0.5	<0.5	<2.5	62	NA
	6/23/98	NLPH	7.81	6.83	<50	<0.5	<0.5	<0.5	<0.5	<2.5	69	NA
MW10	1/20/94	NLPH	8.40	5.65							—	
(14.05)	02/02-03/94	NLPH	8.00	6.05	<50	<0.5	1	<0.5	1.8	NA	<50	NA
	3/10/94	NLPH	7.56	6.49								
	4/22/94	NLPH	7.35	6.70								
	05/10-11/94	NLPH	7.06	6.99	<50	<0.5	<0.5	<0.5	<0.5	NA	<50	NA
	6/27/94	NLPH	7.59	6.46								
	8/31/94	NLPH	8.73	5.32								
	9/29/94	NLPH	9.07	4.98	<50	<0.5	<0.5	<0.5	<0.5	NA	<50	NA
	10/25/94	NLPH	9.41	4.64	<50	<0.5	<0.5	<0.5	<0.5	NA	<50	NA
	11/30/94	NM	7.62	6.43								
	12/27/94	NLPH	7.01	7.04								
	2/6/95	NLPH	5.60	8.45	<50	<0.5	<0.5	<0.5	<0.5	<50	NA	NA
	6/7/95	NLPH	7.12	6.93	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
	9/18/95	NLPH	8.54	5.51	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TPHg	B	T	E	X	MTBE	TEPHd	VOCs
(TOC)	Date	<	feet	> <	Micrograms per liter (ug/L)							>
MW10 (cont.)	11/1/95	NLPH	9.44	4.61	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
(14.05)	2/14/96	NLPH	9.36	4.69	<50	<0.5	<0.5	<0.5	<0.5	<2.5	64	NA
	6/19/96	NLPH	7.32	6.73	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
		Additional Analysis EHCss		<50								
	9/24/96	NLPH	9.07	4.98	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
	12/11/96	NLPH	7.73	6.32	<50	<0.5	<0.5	<0.5	<0.5	<2.5	67	NA
	3/19/97	NLPH	7.62	6.43	<50	<0.5	<0.5	<0.5	<0.5	<2.5	51	NA
	6/4/97	NLPH	8.38	5.67	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
	9/2/97	NLPH	8.64	5.41	<50	<0.5	<0.5	<0.5	<0.5	<2.5	120	NA
	12/2/97	NLPH	7.22	6.83	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
	3/24/98	NLPH	5.71	8.34	<50	<0.5	<0.5	<0.5	<0.5	<2.5	<50	NA
	6/23/98	NLPH	7.23	6.82	<50	<0.5	<0.5	<0.5	<0.5	<2.5	90	NA
MW11	1/20/94	NLPH	9.61	3.94								
(13.55)	02/02-03/94	NLPH	9.56	3.99	<50	<0.5	1	<0.5	0.9	NA	160	NA
	3/10/94	NLPH	8.59	4.96								
	4/22/94	NLPH	8.47	5.08								
	05/10-11/94	NLPH	8.12	5.43	<50	<0.53	<0.5	<0.5	3.2	NA	1002	NA
	6/27/94	NLPH	8.65	4.90								
	8/31/94	NLPH	9.80	3.75								
	9/29/94	NLPH	10.16	3.39	<50	<0.5	<0.5	<0.5	<0.5	NA	<50	NA
	10/25/94	NLPH	10.48	3.07	<50	<0.5	<0.5	<0.5	<0.5	NA	<50	NA
	11/30/94	NM	8.55	5.00								
	12/27/94	NLPH	7.98	5.57								
	2/6/95	NLPH	6.49	7.06	<50	<0.5	<0.5	<0.5	<0.5	NA	160	NA
	6/7/95	NLPH	7.98	5.57	<50	<0.5	<0.5	<0.5	<0.5	42	50	NA
	9/18/95	NLPH	10.12	3.43	<50	<0.5	<0.5	<0.5	<0.5	32	56	NA
	11/1/95	NLPH	10.75	2.80	<50	<0.5	<0.5	<0.5	<0.5	35	170	NA
	2/14/96	NLPH	8.03	5.52	<50	<0.5	<0.5	<0.5	<0.5	37	76	NA
	6/19/96	NLPH	7.85	5.70	<50	<0.5	<0.5	<0.5	<0.5	33	92	NA
		Additional Analysis EHCss		<50								
	9/24/96	NLPH	10.45	3.10	<50	<0.5	<0.5	<0.5	<0.5	40	58	NA
	12/11/96	NLPH	9.02	4.53	<50	<0.5	<0.5	<0.5	<0.5	10	110	NA
	3/19/97	NLPH	9.16	4.39	<50	<0.5	<0.5	<0.5	<0.5	6.9	100	NA
	6/4/97	NLPH	9.91	3.64	<50	<0.5	<0.5	<0.5	<0.5	5.6	<50	NA
	9/2/97	NLPH	10.25	3.30	<50	<0.5	<0.5	<0.5	<0.5	4.5	150	NA
	12/2/97	NLPH	9.33	4.22	<50	<0.5	<0.5	<0.5	<0.5	5.8	70	NA
	3/24/98	NLPH	6.77	6.78	<50	<0.5	<0.5	<0.5	<0.5	4.1	<50	NA
	6/23/98	NLPH	8.99	4.56	<50	<0.5	<0.5	<0.5	<0.5	<2.5	70	NA
MW12	1/20/94	NLPH	7.81	4.80								
(12.61)	02/02-03/94	NLPH	7.22	5.39	48,000	4,000	2,700	2,900	9,900	NA	18,000	NA
	3/10/94	NLPH	6.16	6.45								
	4/22/94	NLPH	6.31	6.30								
	05/10-11/94	NLPH	6.16	6.45	46,000	30,003	1,600	2,900	9,100	NA	8,200	NA
	6/27/94	NLPH	6.55	6.06								
	8/31/94	NLPH	7.97	4.64								
	9/29/94	Sheen	8.52	4.09								
	10/25/94	Sheen	8.74	3.87								
	11/30/94	NM	8.73	3.88								
	12/30/94	NLPH	6.17	6.44								
	2/6/95	Sheen	4.44	8.17								
	6/7/95	Sheen	6.59	6.02								
	9/18/95	Sheen	8.96	3.65								
	11/1/95	Sheen	10.75	1.86								
	2/14/96	Sheen	7.73	4.88								
	6/19/96	Sheen	5.80	6.81								
	9/24/96	Sheen	9.14	3.47								
	12/11/96	Sheen	7.31	5.30								

TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC Inf ppmv	HC Eff ppmv	HC Inf Conc* mg/cu M	LB HC for Period	LB HC Cumulative	Benzene Inf Conc* mg/cu M	LB Benzene per Period	LB Benzene Cumulative	LB Benzene Emitted per Day
3/12/97				50.4	62	0.7	262						
3/19/97				52.5	33	1	140						
3/26/97				50.4	35	1	148						
4/2/97	A-INF			52.5			170	22.56	2,767.7	4.0	< 0.243	< 42.9	
	A-EFF						< 10			< 0.10			< 0.0005
4/9/97				52.5	40	1	169						
4/16/97				52.5	58	3	245						
4/23/97				52.5	30	1	127						
4/30/97				52.5	30	2	127						
5/8/97	A-INF			46.2			340	40.67	2,808.4	4.8	0.702	< 43.6	
	A-EFF						< 10			< 0.10			< 0.0004
5/14/97				46.2	80	1	339						
5/21/97				46.2	20	1	85						
5/28/97				42	42	0	178						
6/4/97	A-INF			42			360	37.41	2,845.8	2.9	0.411	< 44.0	
	A-EFF						< 10			< 0.10			< 0.0004
6/11/97				42	40	0	169						
6/18/97				37.8	38	0	161						
6/25/97				39.9	36	0	152						
7/2/97	A-INF			39.9			350	36.54	2,882.3	5.4	0.427	< 44.4	
	A-EFF						< 10			< 0.10			< 0.0004
7/9/97				48.3	29.4	0	124						
7/18/97				58.8	14.7	0	62						
7/22/97				58.8	54.2	0	229						
7/30/97				52.5	36.1	0	153						
8/7/97	A-INF			52.5			160	38.07	2,920.4	< 0.50	< 0.440	< 44.9	
	A-EFF						13			< 0.10			< 0.0005
8/11/97				52.5	19.1	0	81						
8/20/97				39.9	13.1	0	55						
8/27/97				37.8	20.0	0	85						
9/3/97	A-INF			37.8			400	30.64	2,951.0	< 1.0	< 0.082	< 44.9	
	A-EFF						< 10			< 0.10			< 0.0003
9/10/97				29.4	800	4.0	3386						
9/17/97				37.8	131	1.1	554						
9/24/97				42	40	0	169						
10/8/97	A-INF			42			200	37.61	2,988.6	3.1	0.257	< 45.2	
	A-EFF						< 10			< 0.10			< 0.0004
10/15/97				46.2	50	0.9	212						
10/22/97				42	50	1.5	212						
10/30/97				37.8	30	0	127						
11/5/97				39.9	65	7.6	275						
11/12/97	A-INF			42			880	71.25	3,059.9	< 0.10	< 0.211	< 45.4	
	A-EFF						< 10			< 0.10			< 0.0004
11/20/97				37.8	33	3.2	138						
11/25/97				29.4	56	3.0	237						
12/3/97	A-INF			52.5			NA			NA	NA	NA	
	A-EFF						< 10			< 0.10			< 0.0005
12/10/97				42	19	0.5	80						
12/17/97				46.2	16	0.6	68						
12/23/97				46.2	13	0.0	55						
12/29/97	A-INF			42			51	82.48	3,142.3	< 0.10	< 0.018	< 45.4	
	A-EFF						< 10			< 0.10			< 0.0004
1/6/98	A-INF			42			70	1.82	3,144.2	2.1	< 0.033	< 45.5	
	A-EFF						< 10			< 0.1			< 0.0004
1/13/98				50.4	6	1.0	25						
1/20/98				44.1	4	1.3	17						

TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC Inf ppmv	HC Eff ppmv	HC Inf Conc* mg/cu M	LB HC for Period	LB HC Cumulative	Benzene Inf Conc* mg/cu M	LB Benzene per Period	LB Benzene Cumulative	LB Benzene Emitted per Day
2/3/98	System down due to chart recorder problem												
2/10/98	Restart system												
2/10/98	A-INF			31.5			< 10	< 3.69	< 3,147.9	1.1	0.148	< 45.6	
	A-EFF						< 10			< 0.1			< 0.0003
2/18/98				31.5	0.5	0.0	2						
2/23/98				37.8	0.6	0.1	3						
3/11/98	A-INF			46.2			< 10	< 1.01	< 3,148.9	1.5	0.131	< 45.7	
	A-EFF						< 10			< 0.1			< 0.0004
3/17/98				39.9	1.6	3.4	7						
3/20/98	System down due to control fault												
3/23/98	Restart system												
3/23/98				42	6.2	1.9	26						
3/30/98				39.9	0.4	0.8	2						
4/7/98				42	1.4	1.1	6						
4/17/98				29.4	1.4	1.7	6						
4/21/98	A-INF			21			10	< 1.24	< 3,150.1	0.26	0.109	< 45.9	
	A-EFF						< 10			< 0.1			< 0.0002
5/5/98	A-INF			21			< 10	< 0.26	< 3,150.4	< 0.1	< 0.007	< 45.9	
	A-EFF						< 10			< 0.1			< 0.0002
6/2/98	A-INF			21			18	0.74	< 3,151.1	< 0.1	< 0.003	< 45.9	
	A-EFF						< 10			< 0.1			< 0.0002
6/9/98				21	1.9	1.1	8						
6/17/98				23.1	1.7	0.9	7						
6/24/98				23.1	2.1	0.8	9						

Notes:

A-INF	= Air Influent	A-INF1	= Air Influent before stripper
A-INT	= Air Intermediate	A-INF2	= Air Influent after stripper
A-EFF	= Air Effluent		
NA	= Not Analyzed		
cu. ft/min	= cubic feet per minute		
ppmv	= parts per million by volume		

HC	= Hydrocarbon
ug/l	= micrograms per liter
mg/cuM	= milligrams per cubic meter
lb	= pounds
acfm	= actual cubic feet per minute
<	= less than the laboratory method detection limit

*If value is below laboratory detection limit, detection limit value is used.
*Values calculated using ERI SOP-25 "Hydrocarbons Removed from a Vadose Well" (Attachment C)

TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Revised 7/23/98

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumlative [lb]	Per Period [lb]	Cumlative [lb]
1/9/95	0		W-INF	3400	630	190	100	460	NA				
	--	--	W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
	--	--	W-EFF	<50	<0.5	<0.5	<0.5	<0.5	0.0076				
1/10/95	--	--	--										
1/11/95	795	398	--	--	--	--	--	--	--				
1/13/95	1,065	135	System shut down pending EBMUD arsenic revision (discharge limit of 0.0012 ppm)										
1/23/95	1,065	0	--	--	--	--	--	--	--				
2/13/95	1,065	0	--	--	--	--	--	--	--				
2/14/95	1,065	0	--	--	--	--	--	--	--				
2/17/95	1,065	0	--	--	--	--	--	--	--				
2/27/95	1,065	0	--	--	--	--	--	--	--				
3/7/95	1,065	0	EBMUD arsenic revision (discharge limit of 0.05 ppm)										
3/13/95	10,800	1,623	W-INF	110	7.4	0.5	0.53	6	NA	0.1581	0.1581	0.0287	0.0287
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	<0.005				
3/21/95	11,660	108	W-INF	<50	4.5	<0.5	<0.5	5.5	NA	0.0006	0.1587	0.0000	0.0288
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	0.0059				
			System shut down - 55-gallon liquid phase carbon canister (leak)										
3/30/95	11,760	11	Replaced one 55-gallon liquid phase carbon canister (leak)										
4/4/95	11,760		Replaced one 55-gallon liquid phase carbon canister (leak) - Started system										
4/4/95	12,660	180	W-INF	220	66	11	4.8	16	NA	0.0011	0.1598	0.0003	0.0291
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	0.0096				
4/12/95	53,200	5,068	W-INF	770	110	19	<5.0	160	NA	0.1674	0.3273	0.0298	0.0588
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	<0.005				
4/19/95	73,710	2,930	W-INF	400	47	5.4	<0.5	40	NA	0.1001	0.4274	0.0134	0.0723
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	0.0055				
4/26/95	82,820	1,301	W-INF	1500	190	44	12	150	NA	0.0722	0.4996	0.0090	0.0813
			W-INT	200	31	3.2	<0.5	15	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	0.008				
5/9/95	83,750	72	Replaced two 55-gallon liquid phase carbon canisters (leaks)										
5/26/95	97,840	829	W-INF	680	210	16	5.8	28	NA	0.1366	0.6362	0.0251	0.1063
			W-INT	<50	0.94	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
6/6/95			Added two 55-gallon liquid phase carbon canisters in series										
6/6/95			Replaced one 55-gallon liquid phase carbon canister (leak)										
6/8/95			W-INF	2800	660	300	54	340	NA				

TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC Inf ppmv	HC Eff ppmv	HC Inf Conc* mg/cu M	LB HC for Period	LB HC Cumulative	Benzene Inf Conc* mg/cu M	LB Benzene per Period	LB Benzene Cumulative	LB Benzene Emitted per Day
10/13/95	A-INF	70		168			2000	444.04	1,075.5	100	16.838	< 30.8	
	A-INT						< 10			< 0.05			
	A-EFF						< 10			< 0.05			< 0.0008
10/26/95	Replaced 2 ea x 500 lb canisters = 1000 lbs of carbon												
10/26/95		70		168	165	0	751	269.69	1,345.2				
11/6/95													
11/20/95	Replaced 2 ea x 500 lb canisters = 1000 lbs of carbon												
11/20/95	A-INF1	70		170			180	176.60	1,521.8	3.6	1.038	< 31.9	
	A-INF2						82			2			
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0015
11/26/95	System down												
12/4/95	Restart system	70		168	18.5	0.5	84	12.03	1,533.8				
12/18/95	A-INF	70		151			4600	469.45	2,003.3	50	10.105	< 42.0	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/2/96		70		147	51.7	8.2	235	485.04	2,488.3				
1/3/96	Shut system down, pending carbon change out												
1/8/96	changed out three carbon beds, #1, #2, #3			two carbon beds in-line									
1/8/96		70		151.2	105.4	0	480	28.72	2,517.0				
1/16/96	A-INF	70		142.8	62.3	0	180	7.50	2,524.5	< 0.1	< 0.000	< 42.0	
	A-EFF									< 0.1			< 0.0013
1/30/96		70		147	50.4	0	230	37.28	2,561.8				
2/14/96	A-INF	72		147	39.7	0	< 10	< 0.49	2,562.3	0.16	0.049	< 42.0	
	A-EFF						< 10			< 0.1			< 0.0013
2/27/96		70		136.5	1	0	5	1.20	2,563.5				
3/12/96	A-INF	70		136.5	2.2	0	< 10	< 1.25	2,564.8	< 0.1	< 0.045	< 42.1	
	A-EFF						< 10			< 0.1			< 0.0012
3/25/96	A-INF	70		147	2.4	0	< 10	< 1.65	2,566.4	< 0.1	< 0.017	< 42.1	
	A-EFF						< 10			< 0.1			< 0.0013
3/25/96	System shutdown to install Thermtech VAC-25 thermal/catalytic oxidizer												
8/5/96	Start-up system utilizing Thermtech VAC-25 thermal/catalytic oxidizer												
8/15/96	A-INF			110			410			4.7			
	A-EFF						< 10			< 0.05			< 0.0005
8/29/96				42	45.8	1.1	194	28.84	2,595.2				
9/6/96	A-INF			42			150	5.19	2,600.4	< 0.1	< 0.360	< 42.5	
	A-EFF						< 10			< 0.1			< 0.0004
9/9/96				42	96	4.4	406	3.15	2,603.6				
9/24/96				44.1	141	5.1	597	29.07	2,632.7				
10/3/96	A-INF			42			1300	32.98	2,665.6	< 1	< 0.056	< 42.5	
	A-EFF						< 10			< 0.1			< 0.0004
10/9/96				42	173	4.5	732	22.98	2,688.6				
10/14/96				44.1	105	4.4	444	11.37	2,700.0				
10/21/96				42	89.2	4.5	378	11.12	2,711.1				
10/30/96				42	58.3	0.7	247	10.59	2,721.7				
11/6/96	System down, unable to restart due to reset failure												
1/17/97	Replaced Thermalcouple, restarted unit												
1/31/97	A-INF			10.5			< 10	0.13	2,721.8	0.14	0.002	< 42.5	
	A-EFF						< 10			< 0.05			< 0.0000
2/6/97	A-INF			42			86	0.68	2,722.5	2.2	0.017	< 42.5	
	A-EFF						< 10			< 0.10			< 0.0004
2/14/97				42	25	2	106	2.89	2,725.4				
2/18/97				42	95	0.8	402	3.83	2,729.2				
2/28/97				42	53	0	224	11.81	2,741.0				
3/5/97	A-INF			42			210	4.09	2,745.1	< 0.10	< 0.117	< 42.6	
	A-EFF						< 10			< 0.10			< 0.0004

TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

2010DATA.XLS
Revision: 7/31/98

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC Inf ppmv	HC Eff ppmv	HC Inf Conc* mg/cu M	LB HC for Period	LB HC Cumulative	Benzene Inf Conc* mg/cu M	LB Benzene per Period	LB Benzene Cumulative	LB Benzene Emitted per Day
1/9/95	A-INF	70		160			210			39			
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			
1/10/95	A-INF	70		160			110	2.30	2.3	22	0.438	0.4	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/11/95	A-INF	70		160			70	1.29	3.6	12	0.244	0.7	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/12/95	A-INF	70		160			< 10	< 0.57	4.2	< 0.1	< 0.087	< 0.8	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/13/95	A-INF	70		160			< 10	< 0.14	4.3	< 0.1	< 0.001	< 0.8	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/14/95	A-INF	70		160			< 10	< 0.14	4.5	< 0.1	< 0.001	< 0.8	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/15/95	A-INF	70		158			< 10	< 0.14	4.6	< 0.1	< 0.001	< 0.8	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/16/95	A-INF	70		151			< 10	< 0.14	4.7	< 0.1	< 0.001	< 0.8	
	A-INT						10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/17/95	A-INF	70		155			< 10	< 0.14	4.9	0.13	0.002	< 0.8	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/18/95	A-INF	70		155			100	0.77	5.6	12	0.084	< 0.9	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0014
1/19/95		70		155	15	0	68	1.17	6.8				
1/20/95		70		155	14.4	0	66	0.93	7.7				
2/1/95	A-INF	70		147			39	13.19	20.9	3.5	1.471	< 2.3	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0013
2/14/95		70		147									
2/17/95		70		155	9	0	41	8.67	29.6				
2/27/95		70		151									
3/13/95	A-INF	70		176			< 10	< 14.21	43.8	0.42	1.137	< 3.5	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0016
3/31/95		70		116	2.3	0	10	2.01	45.8				
4/4/95		70		84	129	0.8	587	76.68	122.5				
4/12/95	A-INF	70		176			95	24.88	147.4	6.4	1.616	< 5.1	
	A-INT						< 10			0.38			
	A-EFF						< 10			< 0.1			< 0.0016
4/19/95	A-INF	70		109			210	13.65	161.0	7.6	0.627	< 5.7	
	A-INT						47			12			
	A-EFF						< 10			< 0.1			< 0.0010
4/20/95	Replaced 2 ea x 500 lb canisters = 1000 lbs of Carbon												
4/26/95	A-INF	70		84			400	18.49	179.5	9.1	0.640	< 6.4	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0008
5/1/95	Installed third 500 lb canister in series												

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev.	TPHg	B	T	E	X	MTBE	TEPHd	VOCs
		<		> <	Micrograms per liter (ug/L)							>
MW12 (cont)	3/19/97	Sheen	9.96	2.65								
(12.61)	6/4/97	Sheen	8.81	3.80								
	9/2/97	Sheen	8.93	3.68								
	12/2/97	NLPH	8.41	4.20	45,000	1,800	560	3,100	8,700	<250	3,900	NA
	3/24/98	NLPH	5.37	7.24	42,000	820	280	2,800	6,800	<250	8,800	NA
	6/23/98	Sheen	8.43	4.18	39,000	1,000	200	2,300	4,900	560	7,800	NA
MW13	1/20/94	NLPH	9.08	5.12								
(14.20)	02/02-03/94	NLPH	8.75	5.45	41,000	3,800	1,500	2,700	9,500	NA	8,100	NA
	3/10/94	Sheen	7.46	6.74								
	4/22/94	Sheen	7.78	6.42								
	05/10-11/94	NLPH	7.61	6.59	39,000	3,400	930	2,400	8,900	NA	15,000	NA
	6/27/94	NLPH	7.97	6.23								
	8/31/94	NLPH	9.21	4.99								
	9/29/94	NLPH	9.61	4.59	57,000	2,100	470	2,600	8,100	NA	320	NA
	10/25/94	Sheen	9.93	4.27								
	11/30/94	NM	8.16	6.04								
	12/27/94	NM	7.61	6.59								
	2/6/95	Sheen	5.89	8.31								
	6/7/95	Sheen	8.05	6.15								
	9/18/95	Sheen	9.94	4.26								
	11/1/95	Sheen	10.48	3.72								
	2/14/96	Sheen	8.88	5.32								
	6/19/96	Sheen	7.22	6.98								
	9/24/96	Sheen	10.27	3.93								
	12/11/96	Sheen	8.77	5.43								
	3/19/97	Sheen	9.46	4.74								
	6/4/97	Sheen	9.59	4.61								
	9/2/97	Sheen	9.68	4.52								
	12/2/97	NLPH	9.16	5.04	14,000	210	<50	920	1,000	<250	16,000	NA
	3/24/98	NLPH	6.71	7.49	5,600	110	6.0	420	330	55	1,700	NA
	6/23/98	NLPH	8.87	5.33	12,000	120	<20	300	300	200	3,800	NA
MW14	1/20/94	NM	NM	—								
(15.18)	02/02-03/94	Not Accessible										
	3/10/94	NLPH	7.84	7.34								
	4/22/94	NLPH	8.00	7.18								
	05/10-11/94	NLPH	7.93	7.25	300	2.7	7.9	2	27	NA	11,002	NA
	6/27/94	NLPH	8.19	6.99								
	8/31/94	NLPH	9.44	5.74								
	9/29/94	NLPH	9.82	5.36	300	<0.5	<0.5	0.9	1.3	1,600	NA	NA
	10/25/94	NLPH	9.99	5.19	200	<0.5	<0.5	0.8	<0.5	210	NA	NA
	11/30/94	NM	8.16	7.02								
	12/27/94	Sheen	8.15	7.03							—	
	2/6/95	NLPH	7.18	8.00	360	<1.0	<1.0	<1.0	<1.0	NA	1,200	NA
		Additional Analysis TOG		400								
	6/7/95	NLPH	7.70	7.48	670	<0.5	<0.5	3.6	<0.5	<2.5	1,100	NA
		Additional Analysis EHCss		450								
	9/18/95	NLPH	9.88	5.30	1,300	<2.0	<2.0	<2.0	3	<10	1,900	NA
		Additional Analysis EHCss		1,200								
	11/1/95	NLPH	10.56	4.62	1,100	<2.5	<2.5	3.2	3.1	<13	2,700	NA
		Additional Analysis EHCss		1,600								
	2/14/96	NLPH	9.08	6.10	470	<0.5	<0.5	1.3	<0.5	<2.5	1,500	ND
		Additional Analysis EHCss		680								
	6/19/96	NLPH	8.50	6.68	610	<2.5	<2.5	<2.5	<2.5	<12	2,000	ND
		Additional Analysis EHCss		670								
	9/24/96	NLPH	10.23	4.95	1,000	<5.0	<5.0	<5.0	<5.0	<25	5,100	ND
		Additional Analysis EHCss		4,500								

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. > <	TPHg	B	T	E	X	MTBE	TEPHd	VOCs >
					Micrograms per liter (ug/L)							
MW14 (cont.)	12/11/96	NLPH	9.09	6.09	1,100	<2.0	<2.0	<2.0	3.3	<10	2,100*	ND
(15.18)		Additional Analysis EHCss		750								
	3/19/97	NLPH	7.99	7.19	690	0.65	1.7	2.5	8.3	<2.5	1,400	ND
		Additional Analysis EHCss		470								
	6/4/97	NLPH	9.30	5.88	730	<1.2	<1.2	3.5	5.3	<2.5	1,500	ND
		Additional Analysis EHCss		590								
	9/2/97	NLPH	9.92	5.26	910	<5.0	<5.0	<5.0	5.9	<5.0	1,900	ND
		Additional Analysis EHCss		1,300								
	12/2/97	NLPH	9.13	6.05	570	0.85	<0.5	<0.5	1.7	<2.5	1,200	NA
	3/24/98	NLPH	8.52	6.66	650	1.7	<1.0	<1.0	2.3	5.7	1,300	NA
	6/23/98	NLPH	8.69	6.49	470	<0.5	1.5	1.1	3.0	<2.5	1,100	NA
MW15	1/20/94	NLPH	7.48	6.25								
(13.73)	02/02-03/94	NLPH	7.30	6.43	4,300	24	6.7	170	26	NA	1,200	NA
	3/10/94	NLPH	7.32	6.41								
	4/22/94	NLPH	6.67	7.06								
	05/10-11/94	NLPH	5.81	7.92	3,900	16	<0.5	150	13	NA	1,400	NA
	6/27/94	NLPH	6.14	7.59								
	8/31/94	NLPH	7.20	6.53								
	9/29/94	NLPH	7.76	5.97	2,500	51	15	48	3.6	NA	420	NA
	10/25/94	Sheen	8.19	5.54								
	11/30/94	NM	8.57	5.16								
	12/27/94	NLPH	6.49	7.24								
	2/6/95	Sheen	4.97	8.76								
	6/7/95	Sheen	7.14	6.59								
	9/18/95	Sheen	9.00	4.73								
	11/1/95	Sheen	10.67	3.06								
	2/14/96	Sheen	7.27	6.46								
	6/19/96	Sheen	6.65	7.08								
	9/24/96	Sheen	9.45	4.28								
	12/11/96	Sheen	7.77	5.96								
	3/19/97	Sheen	8.15	5.58								
	6/4/97	Sheen	8.62	5.11								
	9/2/97	NLPH	9.04	4.69	1,100	19	<2.0	11	4.9	23	480	NA
	12/2/97	NLPH	8.43	5.30	1,700	20	<5.0	11	<5.0	58	600	NA
	3/24/98	NLPH	6.35	7.38	2,100	570	<20	<20	<20	<100	450	NA
	6/23/98	NLPH	7.79	5.94	2,300	440	<5.0	30	<5.0	<25	570	NA

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID # (TOC)	Sampling Date	SUBJ <	DTW feet	Elev. > <	TPHg	B	T	E	X	MTBE	TEPHd	VOCs >
					Micrograms per liter (ug/L)							

Notes:

SUBJ	=	Results of subjective evaluation, liquid-phase hydrocarbon thickness (HT) in feet
NLPH	=	No liquid-phase hydrocarbons present in well
TOC	=	Elevation of top of well casing; relative to mean sea level
DTW	=	Depth to water
Elev.	=	Elevation of groundwater. If liquid-phase hydrocarbons present, elevation adjusted using TOC - [DTW - (PT x 0.8)].
[ ]	=	amount recovered
gal.	=	gallons
c.	=	cups
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015 (modified).
BTEX	=	Benzene, Toluene, Ethylbenzene, and total Xylenes analyzed using EPA method 5030/8020.
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 3510/8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA method 5030/8020.
VOCs	=	Volatile organic compounds/purgeable halocarbons analyzed using EPA method 601.
TOG	=	Total oil and grease analyzed using Standard Method 5520.
EHCss	=	Extractable Hydrocarbons as Stoddard Solvent analyzed using EPA method 8015.
NR	=	No liquid-phase hydrocarbons removed from well
NM	=	Not Measured
ND	=	Not Detected at or above the laboratory method detection limits
NA	=	Not Analyzed
---	=	Not Applicable
<	=	Less than the indicated detection limit shown by the laboratory
1	=	A peak eluting earlier than benzene and suspected to be methyl tertiary butyl ether was present
*	=	TEPH note: Analyst notes samples resemble paint thinner more than Stoddard Solvent

TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC Inf ppmv	HC Eff ppmv	HC Inf Conc* mg/cu M	LB HC for Period	LB HC Cumulative	Benzene Inf Conc* mg/cu M	LB Benzene per Period	LB Benzene Cumulative	LB Benzene Emitted per Day
5/1/95	A-INF	70		168			Insufficient sample for analyses						
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0015
5/15/95		70		84									
5/19/95	A-INF	70		105			140	52.68	232.2	3.5	1.229	< 7.6	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0009
6/6/95	A-INF	70		178			36	20.12	252.3	0.22	0.535	< 8.1	
	A-INT						< 10			0.1			
	A-EFF						< 10			< 0.1			< 0.0016
6/8/95		70		164									
6/23/95	System Down - hydrocarbon vapor detector shut down												
6/27/95	Replaced one 500 lb carbon canister - restarted system												
6/27/95	A-INF	70		164			440	62.10	314.4	4.9	0.668	< 8.8	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0015
7/3/95	A-EFF						< 10			< 0.1			
7/10/95	Replaced one 500 lb carbon canister												
7/10/95	A-INF	70		168			230	64.89	379.3	2.8	0.746	< 9.5	
	A-INT						120			2.8			
	A-EFF						< 10			< 0.1			< 0.0015
7/19/95	Replaced 2 ea x 500 lb canisters = 1000 lbs of Carbon												
7/25/95	Collect samples and shut system down pending results												
7/25/95	A-INF	70		205			67	37.29	416.6	< 0.5	< 0.414	< 9.9	
	A-INT						< 100			< 1			
	A-EFF						< 10			< 0.1			< 0.0018
7/28/95	System down - could not restart												
7/31/95	Restart system												
7/31/95	A-INF	70		164			500	18.78	435.4	14	0.480	< 10.4	
	A-INT						12			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0015
8/9/95	Replaced one 500 lb carbon canister												
8/15/95	System down - Remove hydrocarbon vapor detector and send to manufacture for calibration												
9/11/95	Replaced hydrocarbon vapor detector - Restarted system												
9/13/95	System Down - hydrocarbon vapor detector shut down												
9/18/95	Replaced 2 ea x 500 lb canisters = 1000 lbs of carbon												
9/18/95	A-INF	70		164			980	196.08	631.5	13	3.577	< 14.0	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0015
9/20/95	System Down - hydrocarbon vapor detector shut down												
9/25/95	Restarted system												
9/25/95	A-INF	70		164			NA			2.4			
	A-INT						NA			< 0.1			
	A-EFF						NA			< 0.1			
10/13/95	Replaced 2 ea x 500 lb canisters = 1000 lbs of carbon												

TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumlative [lb]	Per Period [lb]	Cumlative [lb]
			W-INT1	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF1	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF2	<50	<0.5	<0.5	<0.5	<0.5	NA				
6/27/95	125,010	849	W-INF1	4500	1700	99	35	220	NA	0.5871	1.2233	0.2165	0.3228
			W-INF2	810	420	20	7.9	58	NA				
			W-INT1	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT2	<50	0.53	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF2	<50	<0.5	<0.5	<0.5	<0.5	NA				
7/10/95	131,370	489	Replaced two 55-gallon liquid phase carbon canisters										
7/11/95	131,690	320	W-INF1	1600	530	15	<10	59	NA	0.1700	1.3933	0.0621	0.3850
			W-INF2	630	270	7.0	<5.0	25	NA				
			W-INT1	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	0.041				
			Additional Analyses: ND Purgeable Volatile Organics, ND Priority Pollutant Metals, except for 12 ppb nickel and 8.0 ppb zinc										
7/25/95	141,550	704	System down pending results of air samples										
7/28/95		System Down - Could not Restart											
7/31/95		Restart System											
8/15/95		System Down - Remove hydrocarbon vapor detector and send to manufacturer for calibration											
9/11/95		Replaced hydrocarbon vapor detector - Restarted System											
9/13/95		System Down - hydrocarbon vapor detector shut down											
9/18/95		Restart System											
9/18/95	148,550	244	W-INF1	1900	590	33	16	120	NA	0.2462	1.6395	0.0788	0.4637
			W-INF2	490	150	7.6	3.1	30	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
9/20/95		System Down - hydrocarbon vapor detector shut down											
9/25/95		Restart System											

TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	TPHg Removed Per Period [lb]	TPHg Removed Cumlative [lb]	Benzene Removed Per Period [lb]	Benzene Removed Cumlative [lb]
9/28/95	System Down - hydrocarbon vapor detector shut down												
10/13/95	151,380	113	W-INF1	4900	1400	310	120	480	NA	0.0803	1.7197	0.0235	0.4872
			W-INF2	780	230	49	15	72	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	0.0079				
	Additional Analyses: ND Purgeable Volatile Organics												
10/26/95	154,143	213											
11/6/95	157,906	342											
11/20/95	159,664	126	W-INF1	630	140	<5.0	6.9	22	NA	0.1911	1.9108	0.0532	0.5404
			W-INF2	230	36	1.6	2.2	7.6	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
11/27/95			System Down										
11/29/95	160,361	77	Restart System										
12/4/95	161,442	216											
12/18/95	168,304	490	W-INF1	8900	1100	240	130	2200	NA	0.3435	2.2543	0.0447	0.5851
			W-INF2	3900	380	85	60	890	NA				
			W-INT	<50	1.3	<0.5	<0.5	5.1	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
1/2/96	171,770	231											
1/8/96	173,707	323											
1/16/96	178,573	608	W-INF	490	53	1.8	3.9	35	NA	0.4023	2.6566	0.0494	0.6345
			W-INF2	150	8.1	<0.5	0.61	6.8	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
1/30/96	190,030	818											
2/14/96	202,610	839	W-INF1	840	220	25	<2.5	36	NA	0.1334	2.7900	0.0274	0.6619
			W-INF2	410	96	10	1.1	23	NA				
			W-INT	<50	0.58	1.8	<0.5	2.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
2/27/96	216,100	1,038											
3/12/96	SYSTEM DOWN UPON ARRIVAL												
3/12/96	216,590	35	W-INF1	1700	410	110	26	130	NA	0.1481	2.9381	0.0367	0.6986
			W-INF2	420	94	24	5.9	33	NA				
			W-INT	<50	0.53	<0.5	<0.5	<0.5	NA				

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OPERATION AND PERFORMANCE DATA FOR
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720 High Street
Oakland, California

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumlative [lb]	Per Period [lb]	Cumlative [lb]
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
3/25/96	217,460	67	W-INF1	100	6.6	<0.5	<0.5	7	NA	0.0065	2.9446	0.0015	0.7002
			W-INF2	<50	3.9	<0.5	<0.5	1.5	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
3/25/96	System shutdown, removal of blower/carbon to thermal oxidizer												
7/22/96	Start-up remediation system												
7/22/96	219,802	20	W-INF1	3100	330	53	180	630	NA	0.0313	2.9759	0.0033	0.7034
			W-INF2	2500	330	41	140	480	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
8/1/96	System down on arrival, unable to obtain emission flow rate and samples. Notified BAAQMD												
8/1/96	247,305	2,750											
8/9/96			W-INF1	1500	550	6.0	12	69	NA				
			W-INF2	240	71	0.91	1.3	9.2	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
8/15/96	252,600	378											
8/29/96	256,508	279											
9/6/96	258,828	290	W-INF1	<50	<0.5	<0.5	<0.5	<0.5	NA	0.5128	3.4887	0.0538	0.7573
			W-INF2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
9/20/96	260,063	88											
9/24/96	262,422	590											
10/3/96	263,150	81											
10/14/96	263,232	7	System down, air compressor, unable to obtain samples. Notified EBMUD										
1/2/97	263,232		Replaced compressor, restarted unit										
1/31/97	290,045	925	W-INF	5,500	1,700	580	120	740	NA	0.6208	4.1095	0.1902	0.9475
			W-INT1	190	39	12	2.1	13	NA				
			W-INT2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
2/6/97	313,800	3,959	W-INF1	5,100	910	160	45	910	NA	1.0504	5.1600	0.2586	1.2061
			W-INT2	570	62	12	2.9	86	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
2/14/97	323,820	1,253											
2/18/97	327,856	1,009											
2/28/97	335,480	762											
3/5/97	340,178	940	W-INF1	980	100	5.0	2.1	54	NA	0.6690	5.8290	0.1111	1.3172
			W-INF2	<50	0.81	<0.5	<0.5	<0.5	NA				
			W-INT1	<50	<0.5	<0.5	<0.5	<0.5	NA				

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720 High Street
Oakland, California

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	TPHg Removed Per Period [lb]	TPHg Removed Cumlative [lb]	Benzene Removed Per Period [lb]	Benzene Removed Cumlative [lb]
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
3/12/97	344,977	686											
3/19/97	346,176	171											
3/26/97	346,927	107											
4/2/97	351,729	686	W-INF	430	120	1.8	5.3	19	NA	0.0679	5.8969	0.0106	1.3278
			W-INT1	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
4/9/97	356,009	611											
4/16/97	358,700	384											
4/23/97			System down on arrival										
4/30/97	361,241	182											
5/8/97	365,440	525											
5/14/97	368,270	472	System down, bad float on air stripper										
5/21/97	370,444	311	W-INF	1,300	360	<5.0	16	21	NA	0.1351	6.0320	0.0375	1.3653
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
			System down, bad float on air stripper										
5/28/97	372,219	254	System down, bad float on air stripper										
6/4/97			Replaced float, restarted system										
6/4/97	375,230	430	W-INF1	1,600	510	5.8	17	16	NA	0.0579	6.0899	0.0174	1.3827
			W-INF2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
6/11/97	378,550	474	System down, faulty transfer pump										
7/22/97			Restarted system										
7/22/97	379,120	14	W-INF1	1,300	520	6.2	6.2	34	NA	0.0466	6.1365	0.0165	1.3992
			W-INF2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
7/29/97	379,315	28											
8/7/97	385,510	688	W-INF1	1,400	400	13	21	52	NA	0.0720	6.2085	0.0245	1.4238
			W-INF2	<50	2.0	<0.5	<0.5	<0.5	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
8/13/97	388,390	480											
8/20/97	391,380	427											
8/27/97	393,545	309											
9/3/97	395,744	314											
9/10/97	397,402	237	W-INF1	<50	<0.5	<0.5	<0.5	<0.5	NA	0.0719	6.2804	0.0199	1.4436
			W-INF2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				

TABLE 3
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720 High Street
Oakland, California

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumlative [lb]	Per Period [lb]	Cumlative [lb]
9/17/97	399,232	261											
9/24/97	400,746	216											
10/8/97	403,527	199	W-INF1	<50	0.53	<0.5	<0.5	<0.5	NA	0.0026	6.2829	0.00003	1.4437
			W-INF2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
10/15/97	403,935	58											
10/22/97	406,161	318											
10/30/97	407,795	204											
11/5/97	408,668	146											
11/12/97	410,116	207											
11/20/97	413,391	409											
11/25/97	415,500	422											
12/2/97	421,667	881	W-INF1	660	180	10	8.2	13	NA	0.0537	6.3367	0.0137	1.4573
			W-INF2	410	110	5.3	5.3	8.9	NA				
			W-INT1	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
12/3/97	422,595	928											
12/10/97	429,205	944											
12/17/97	436,179	996											
12/23/97	441,533	892											
12/29/97	445,796	711											
1/6/98			System down,high water. Restarted system										
1/6/98	449,395	450	W-INF1	1,600	640	25	<10	36	NA	0.2614	6.5981	0.0949	1.5522
			W-INF2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT1	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-INT2	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
1/13/98	455,054	808											
1/20/98	463,576	1,217											
2/3/98	478,169	1,042	W-INF1	1,800	780	66	40	580	NA	0.4081	7.0062	0.1705	1.7226
			W-INF2	530	180	12	6.4	110	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
2/10/98	481,638	496											
2/18/98	497,659	2,003											
2/23/98	499,350	338											
3/11/98			System down,high water. Restarted system										
3/11/98	542,708	2,710	W-INF1	2,000	670	24	9.6	220	NA	1.0231	8.0293	0.3904	2.1130
			W-INF2	130	2.6	0.65	<0.5	4.3	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				

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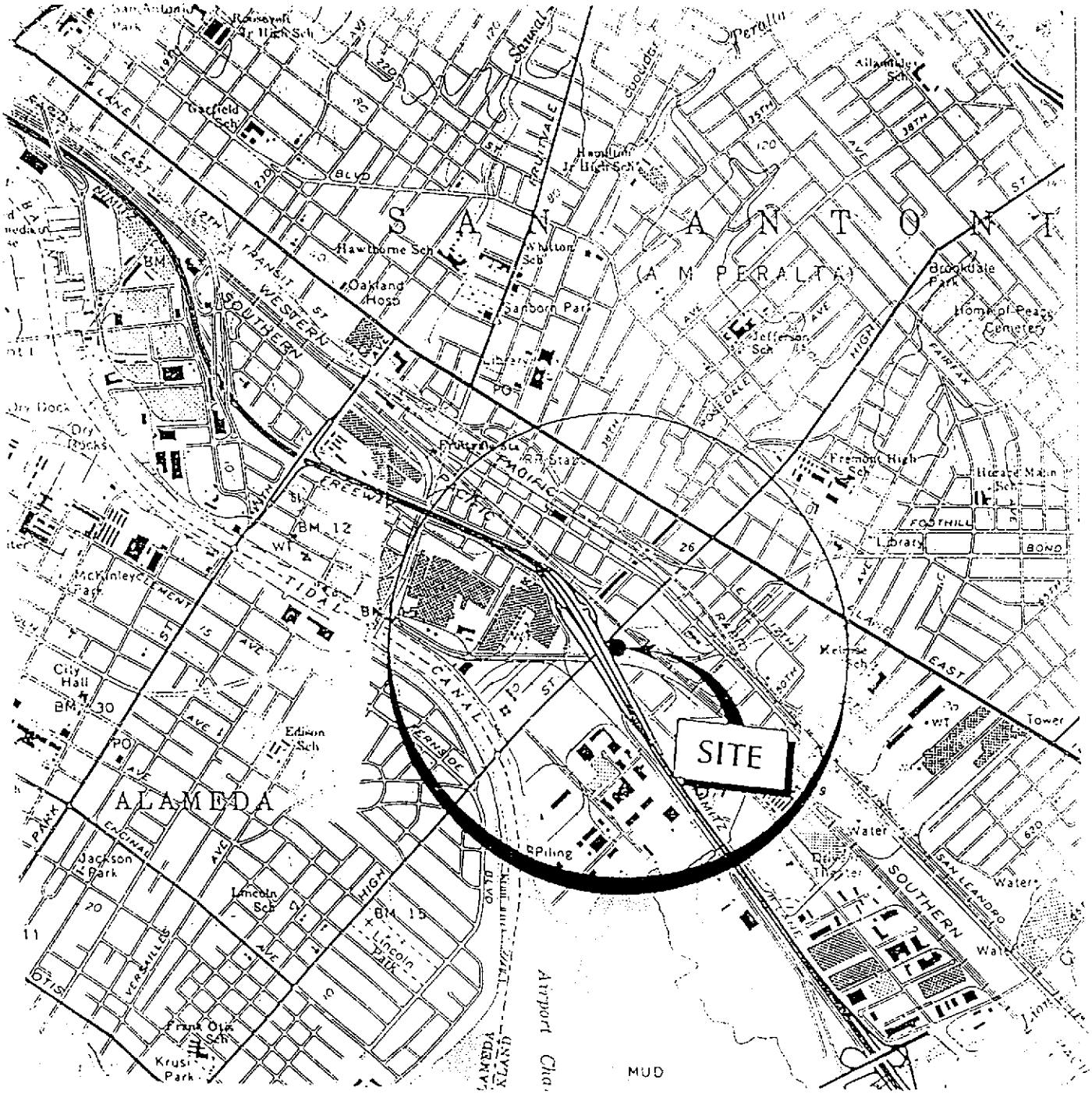
Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	TPHg Removed Per Period [lb]	TPHg Removed Cumlative [lb]	Benzene Removed Per Period [lb]	Benzene Removed Cumlative [lb]
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
3/23/98			System down due to solinoid										
4/7/98			Replaced solinoid and restarted system										
4/7/98	547,022	160	W-INF1	2,100	380	65	76	350	NA	0.0738	8.1031	0.0756	2.1886
			W-INF2	130	2.6	0.65	<0.5	4.3	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
4/17/98	583,780	3,676											
4/21/98	585,720	485											
4/28/98	598,920	1,886											
5/5/98	606,610	1,099	W-INF1	2,300	380	27	26	390	NA	1.0938	9.1968	0.1889	2.3775
			W-INF2	130	2.6	0.65	<0.5	4.3	NA				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
5/12/98	613,920	1,044											
5/19/98	621,120	1,029											
5/28/98	628,580	829											
6/2/98	634,760	1,236	Samples were collected but inadvertantly not analyzed by the laboratory.										
6/9/98	635,740	140											
6/17/98	642,810	884											
6/24/98	645,760	421											

W-INF	W-INF1	= water influent before stripper or before tank	B	= Benzene	NA	= Not applicable
	W-INF2	= water influent after stripper or after filters	T	= Toluene	NS	= Not sampled
W-INT	W-INT1	W-INT2 = water intermediate samples	E	= Ethylbenzene	ND	= Not detected
W-EFF	W-EFF1	W-EFF2 = water effluent samples	X	= Total Xylenes		
TPHg	= Total petroleum hydrocarbons as gasoline		<	= less than the laboratory method detection limit		
gpd	= gallons per day		ug/L	= micrograms per liter		
gal	= gallons		mg/L	= milligrams per liter		



N

APPROXIMATE SCALE

0 1/2 1

MILE

Source: U.S.G.S. 7.5 minute topographic quadrangle map Oakland/San Leandro, California Photorevised 1980

ERI ENVIRONMENTAL RESOLUTIONS, INC.

PROJECT ERI 2010

SITE VICINITY MAP

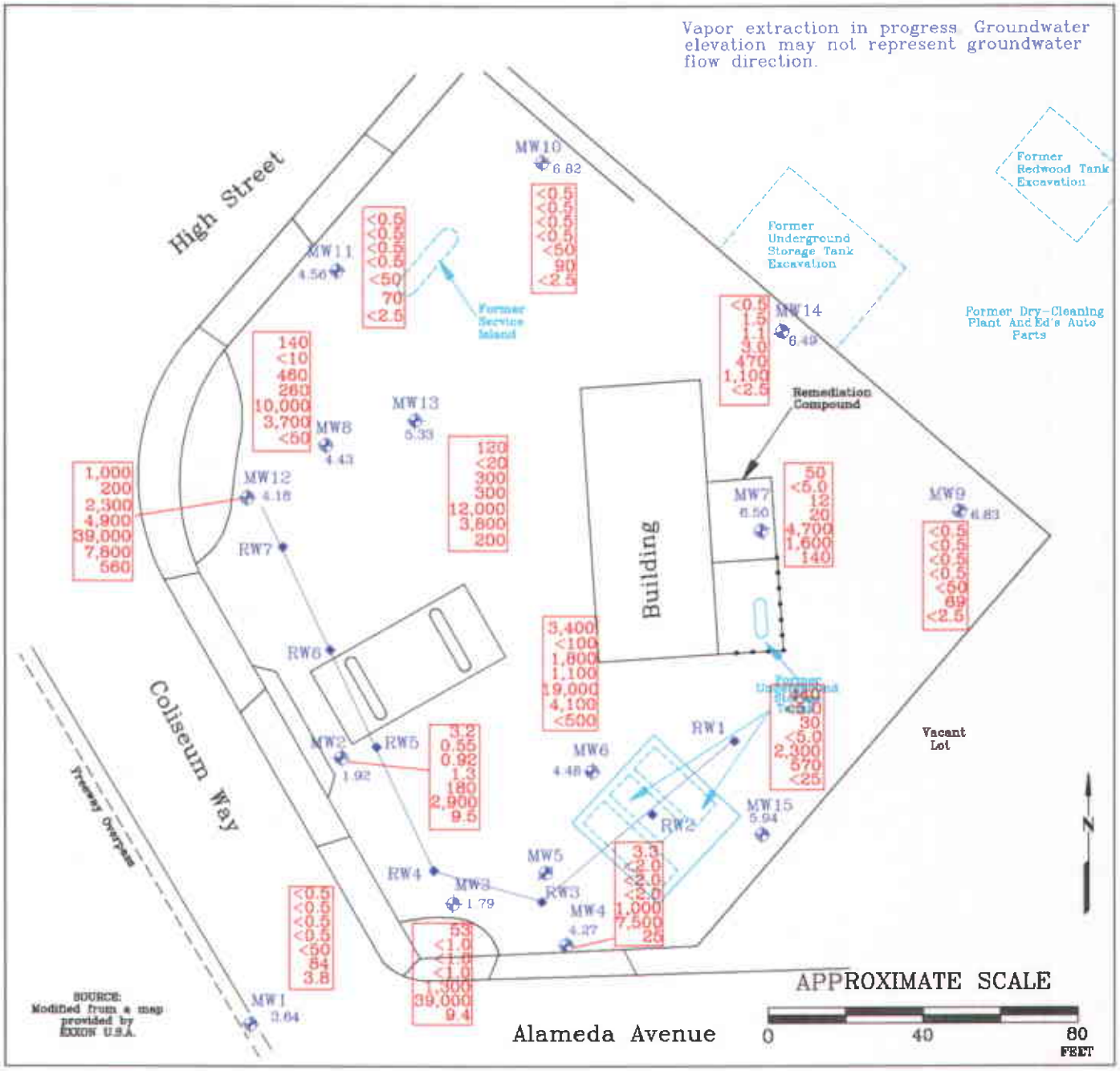
FORMER EXXON SERVICE STATION 7-3006

720 High Street

Oakland, California

PLATE

1



FN 20100002

EXPLANATION

MW15 — Groundwater Monitoring Well

5.94 — Groundwater Elevation in feet above mean sea level

MW5 — Groundwater Monitoring Well (Destroyed)

RW7 — Recovery Monitoring Well

Interceptor Trench

Groundwater Concentrations in ug/L
Sampled June 23, 1998

1,000	Benzene
200	Toluene
2,300	Ethylbenzene
4,900	Xylenes
39,000	Total Petroleum Hydrocarbons as gasoline
7,800	Total Extractable Petroleum Hydrocarbons as diesel
560	Methyl Tertiary Butyl Ether
<	Less Than the Stated Laboratory Detection Level
ug/L	Micrograms per Liter

ERI ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

FORMER EXXON SERVICE STATION 7-3006
720 High Street
Oakland, California

PROJECT NO. 2010

PLATE 2

July 15, 1998

ATTACHMENT A

GROUNDWATER SAMPLING PROTOCOL

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate phase product level, if present, in each well that contained water and/or separate phase product are measured with a MMC Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater flow direction and gradient, depth to water (DTW) levels are subtracted from wellhead elevations.

Water samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples were checked for measurable separate phase hydrocarbon product or sheen. Any separate phase product is removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until stabilization of the temperature, pH, and conductivity are 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:

One well casing volume in gallons = $\pi r^2 h(7.48)$ 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 it's diameter

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

After purging, each well was allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover to at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples". Water samples were collected with a new, disposable Teflon bailer, and were carefully poured into 40-milliliter (ml) glass vials, which are filled so as to produce a positive meniscus. Each vial is preserved with hydrochloric acid, sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain of Custody Record, to a California-certified laboratory.

ATTACHMENT B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORDS

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-8-MW10	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 06/30/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/06/98
Attention: Marc Briggs	Lab Number: 9806F55-01	Reported: 07/08/98

QC Batch Number: GC0630980HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	90
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

RECEIVED
JUL 9 1998

Sequoia Analytical

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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-8-MW10	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/29/98
Attention: Marc Briggs	Lab Number: 9806F55-01	Reported: 07/08/98

QC Batch Number: GC062998BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	83

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-10-MW11	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 06/30/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/06/98
Attention: Marc Briggs	Lab Number: 9806F55-02	Reported: 07/08/98

QC Batch Number: GC0630980HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	70
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-10-MW11	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/30/98
Attention: Marc Briggs	Lab Number: 9806F55-02	Reported: 07/08/98

QC Batch Number: GC063098BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	127

Analytes reported as N.D. were not present above the stated limit of detection.

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Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-18-MW9	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 06/30/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/06/98
Attention: Marc Briggs	Lab Number: 9806F55-03	Reported: 07/08/98

QC Batch Number: GC0630980HBPEXZ
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	69
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-18-MW9	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/29/98
Attention: Marc Briggs	Lab Number: 9806F55-03	Reported: 07/08/98

QC Batch Number: GC062998BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	85

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-10-MW1	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 06/30/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/06/98
Attention: Marc Briggs	Lab Number: 9806F55-04	Reported: 07/08/98

QC Batch Number: GC0630980HBPEXZ
nstrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	84
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	88

nalytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-10-MW1	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/30/98
Attention: Marc Briggs	Lab Number: 9806F55-04	Reported: 07/08/98

QC Batch Number: GC063098BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Methyl t-Butyl Ether	**2.5**	**3.8**
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	128

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-13-MW4	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 06/30/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/07/98
Attention: Marc Briggs	Lab Number: 9806F55-05	Reported: 07/08/98

QC Batch Number: GC0630980HBPEXZ
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	500	7500
Chromatogram Pattern:		
Weathered Diesel		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	151 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-13-MW4	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/02/98
Attention: Marc Briggs	Lab Number: 9806F55-05	Reported: 07/08/98

QC Batch Number: GC070298BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**200**	**1000**
Methyl t-Butyl Ether	**10**	**25**
Benzene	**2.0**	**3.3**
Toluene	2.0	N.D.
Ethyl Benzene	2.0	N.D.
Xylenes (Total)	2.0	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		**C6-C12**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-11-MW14	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 06/30/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/01/98
Attention: Marc Briggs	Lab Number: 9806F55-06	Reported: 07/08/98

QC Batch Number: GC0630980HBPEXC
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	**1100**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	143

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-11-MW14	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/02/98
Attention: Marc Briggs	Lab Number: 9806F55-06	Reported: 07/08/98

QC Batch Number: GC070298BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**50**	**470**
Methyl t-Butyl Ether	2.5	N.D.
Benzene	0.50	N.D.
Toluene	**0.50**	**1.5**
Ethyl Benzene	**0.50**	**1.1**
Xylenes (Total)	**0.50**	**3.0**
Chromatogram Pattern:		
Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	100

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-9-MW15	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 07/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/02/98
Attention: Marc Briggs	Lab Number: 9806F55-07	Reported: 07/08/98

QC Batch Number: GC0701980HBPEXC
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	570
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	97

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-9-MW15	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/30/98
Attention: Marc Briggs	Lab Number: 9806F55-07	Reported: 07/08/98

QC Batch Number: GC063098BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**2300**
Methyl t-Butyl Ether	25	N.D.
Benzene	**5.0**	**440**
Toluene	5.0	N.D.
Ethyl Benzene	**5.0**	**30**
Xylenes (Total)	5.0	N.D.
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	140 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-12-MW3	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 07/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/06/98
Attention: Marc Briggs	Lab Number: 9806F55-08	Reported: 07/08/98

QC Batch Number: GC0701980HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	2500	39000
Chromatogram Pattern: **Weathered Diesel**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-12-MW3	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/30/98
Attention: Marc Briggs	Lab Number: 9806F55-08	Reported: 07/08/98

QC Batch Number: GC063098BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**100**	**1300**
Methyl t-Butyl Ether	**5.0**	**9.4**
Benzene	**1.0**	**53**
Toluene	1.0	N.D.
Ethyl Benzene	1.0	N.D.
Xylenes (Total)	1.0	N.D.
Chromatogram Pattern:		
Gas & Unidentified HC		**>C10**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	133 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-9-MW7	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 07/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/02/98
Attention: Marc Briggs	Lab Number: 9806F55-09	Reported: 07/08/98

QC Batch Number: GC0701980HBPEXC
Instrument ID: GCHP5B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	50	1600
Chromatogram Pattern: **Unidentified HC**		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	91

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-9-MW7	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 07/01/98
Attention: Marc Briggs	Lab Number: 9806F55-09	Reported: 07/08/98

QC Batch Number: GC070198BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**500**	**4700**
Methyl t-Butyl Ether	**25**	**140**
Benzene	**5.0**	**50**
Toluene	5.0	N.D.
Ethyl Benzene	**5.0**	**12**
Xylenes (Total)	**5.0**	**20**
Chromatogram Pattern:		
Unidentified HC		C6-C12

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	156 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-9-MW13	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 07/01/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/06/98
Attention: Marc Briggs	Lab Number: 9806F55-10	Reported: 07/08/98

QC Batch Number: GC0701980HBPEXC
Instrument ID: GCHP4B

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	200	3800
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	95

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-9-MW13	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/29/98
Attention: Marc Briggs	Lab Number: 9806F55-10	Reported: 07/08/98

QC Batch Number: GC062998BTEX02A
Instrument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2000	12000
Methyl t-Butyl Ether	100	200
Benzene	20	120
Toluene	20	N.D.
Ethyl Benzene	20	300
Xylenes (Total)	20	300
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-12-MW2	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 07/02/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/07/98
Attention: Marc Briggs	Lab Number: 9806F55-11	Reported: 07/08/98

QC Batch Number: GC0702980HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	100	2900
Chromatogram Pattern: **Weathered Diesel**	C9-C13	& C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	116

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

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Environmental Resolutions
74 Digital Drive , Suite 6
Novato, CA 94949

Attention: Marc Briggs

Client Proj. ID: Exxon 7-3006, 201013X
Sample Descript: W-12-MW2
Matrix: LIQUID
Analysis Method: 8015Mod/8020
Lab Number: 9806F55-11

Sampled: 06/23/98
Received: 06/24/98

Analyzed: 06/29/98
Reported: 07/08/98

QC Batch Number: GC062998BTEX03A
Instrument ID: GCHP03

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	180
Methyl t-Butyl Ether	2.5	9.5
Benzene	0.50	3.2
Toluene	0.50	0.55
Ethyl Benzene	0.50	0.92
Xylenes (Total)	0.50	1.3
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	99

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-22-MW8	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 07/02/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/07/98
Attention: Marc Briggs	Lab Number: 9806F57-12	Reported: 07/08/98

QC Batch Number: GC0702980HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	**200**	**3700**
Chromatogram Pattern:		
Unidentified HC		**C9-C24**

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	90

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-22-MW8	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/30/98
Attention: Marc Briggs	Lab Number: 9806F57-12	Reported: 07/08/98

QC Batch Number: GC063098BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	1000	10000
Methyl t-Butyl Ether	50	N.D.
Benzene	10	140
Toluene	10	N.D.
Ethyl Benzene	10	460
Xylenes (Total)	10	260
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	175 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-30-MW6	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 07/02/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/07/98
Attention: Marc Briggs	Lab Number: 9806F57-13	Reported: 07/08/98

QC Batch Number: GC0702980HBPEXA
Instrument ID: GCHP4A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	200	4100
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	101

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-30-MW6	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/29/98
Attention: Marc Briggs	Lab Number: 9806F57-13	Reported: 07/08/98

QC Batch Number: GC062998BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	**10000**	**19000**
Methyl t-Butyl Ether	500	N.D.
Benzene	**100**	**3400**
Toluene	100	N.D.
Ethyl Benzene	**100**	**1800**
Xylenes (Total)	**100**	**1100**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	115

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

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Project Manager

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-8-MW12	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	Extracted: 07/02/98
	Analysis Method: EPA 8015 Mod	Analyzed: 07/06/98
Attention: Marc Briggs	Lab Number: 9806F57-14	Reported: 07/08/98

QC Batch Number: GC0702980HBPEXA
Instrument ID: GCHP5A

Total Extractable Petroleum Hydrocarbons (TEPH)

Analyte	Detection Limit ug/L	Sample Results ug/L
TEPH as Diesel	200	7800
Chromatogram Pattern:		
Unidentified HC		C9-C24

Surrogates	Control Limits %		% Recovery
n-Pentacosane (C25)	50	150	244 Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Sampled: 06/23/98
74 Digital Drive , Suite 6	Sample Descript: W-8-MW12	Received: 06/24/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 06/29/98
Attention: Marc Briggs	Lab Number: 9806F57-14	Reported: 07/08/98

QC Batch Number: GC062998BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX and MTBE

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	2000	39000
Methyl t-Butyl Ether	100	560
Benzene	20	1000
Toluene	20	200
Ethyl Benzene	20	2300
Xylenes (Total)	20	4900
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	108

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-01-05

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	A. Porter
ANALYTE	Diesel

QC Batch #: GC063098BHBPEXZ

Sample No.:	9806D25-1
Date Prepared:	6/30/98
Date Analyzed:	7/6/98
Instrument I.D.#:	GCHP5A
Sample Conc., ug/L:	180
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	960
% Recovery:	78
Matrix Spike Duplicate, ug/L:	890
% Recovery:	71
Relative % Difference:	9.4
RPD Control Limits:	0-50

LCS Batch#: BLK063098ZS

Date Prepared:	6/30/98
Date Analyzed:	7/6/98
Instrument I.D.#:	GCHP5A
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	690
LCS % Recovery:	69

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-06

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	G. Wardle
ANALYTE	Diesel

QC Batch #: GC063098OHBPEXC

Sample No.:	DW9806E82-1
Date Prepared:	6/30/98
Date Analyzed:	7/1/98
Instrument I.D.#:	GCHP4A
Sample Conc., ug/L:	380
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	1200
% Recovery:	82
Matrix Spike Duplicate, ug/L:	1200
% Recovery:	82
Relative % Difference:	0.0
RPD Control Limits:	0-50

LCS Batch#: BLK063098CS

Date Prepared:	6/30/98
Date Analyzed:	7/1/98
Instrument I.D.#:	GCHP4A
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	750
LCS % Recovery:	75

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-02,04,07,08

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid			
Method:	EPA 8020			
Analyst:	N. Herrera			
ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #:	GC063098BTEX21A			
Sample No.:	GW9806H03-12			
Date Prepared:	6/30/98	6/30/98	6/30/98	6/30/98
Date Analyzed:	6/30/98	6/30/98	6/30/98	6/30/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	10	10	31
% Recovery:	106	100	100	102
Matrix Spike Duplicate, ug/L:	11	11	11	33
% Recovery:	110	110	110	110
Relative % Difference:	3.7	9.5	9.5	7.5
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#:	GWBLK063098ABS			
Date Prepared:	6/30/98	6/30/98	6/30/98	6/30/98
Date Analyzed:	6/30/98	6/30/98	6/30/98	6/30/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	11	10	10	31
LCS % Recovery:	110	100	100	103

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-07-10

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	G. Wardle
ANALYTE	Diesel

QC Batch #: GC0701980HBPEXC

Sample No.:	9806J42-6
Date Prepared:	7/1/98
Date Analyzed:	7/1/98
Instrument I.D.#:	GCHP5B
Sample Conc., ug/L:	500
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	1400
% Recovery:	90
Matrix Spike Duplicate, ug/L:	1200
% Recovery:	70
Relative % Difference:	25
RPD Control Limits:	0-50

LCS Batch#: BLK070198C

Date Prepared:	7/1/98
Date Analyzed:	7/1/98
Instrument I.D.#:	GCHP5B
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	780
LCS % Recovery:	78

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-11
9806F57-12-14

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015A
Analyst:	A. Porter
ANALYTE	Diesel

QC Batch #: GC0702980HBPEXA

Sample No.:	9806F57-14
Date Prepared:	7/2/98
Date Analyzed:	7/6/98
Instrument I.D.#:	GCHP5A
Sample Conc., ug/L:	7800
Conc. Spiked, ug/L:	1000
Matrix Spike, ug/L:	7200
% Recovery:	-60
Matrix Spike Duplicate, ug/L:	7000
% Recovery:	-80
Relative % Difference:	29
RPD Control Limits:	0-50

THE SAMPLE, MS AND MSD WERE ALL RUN AT A 4X DILUTION.

LCS Batch#: BLK070298AS

Date Prepared:	7/2/98
Date Analyzed:	7/6/98
Instrument I.D.#:	GCHP5A
Conc. Spiked, ug/L:	1000
Recovery, ug/L:	730
LCS % Recovery:	73

Percent Recovery Control Limits:

MS/MSD	50-150
LCS	60-140

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-01,03,10

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015
Analyst:	N. Herrera
ANALYTE	Gasoline

QC Batch #: GC062998BTEX02A

Sample No.:	GW9806E08-1
Date Prepared:	6/29/98
Date Analyzed:	6/29/98
Instrument I.D.#:	GCHP02
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	250
Matrix Spike, ug/L:	220
% Recovery:	88
Matrix Spike Duplicate, ug/L:	210
% Recovery:	84
Relative % Difference:	4.7
RPD Control Limits:	0-25

LCS Batch#: GWBLK062998ABS

Date Prepared:	6/29/98
Date Analyzed:	6/29/98
Instrument I.D.#:	GCHP02
Conc. Spiked, ug/L:	250
LCS Recovery, ug/L:	240
LCS % Recovery:	96

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-05

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid			
Method:	EPA 8020			
Analyst:	N. Herrera			
ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #:	GC070298BTEX21A			
Sample No.:	GW9806G68-8			
Date Prepared:	7/2/98	7/2/98	7/2/98	7/2/98
Date Analyzed:	7/2/98	7/2/98	7/2/98	7/2/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	11	10	11	31
% Recovery:	109	105	107	103
Matrix Spike Duplicate, ug/L:	11	11	11	31
% Recovery:	110	106	106	103
Relative % Difference:	0.91	0.95	0.94	0.0
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#:	GWBLK070298ABS			
Date Prepared:	7/2/98	7/2/98	7/2/98	7/2/98
Date Analyzed:	7/2/98	7/2/98	7/2/98	7/2/98
Instrument I.D.#:	GCHP21	GCHP21	GCHP21	GCHP21
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	10	9.8	9.9	29
LCS % Recovery:	103	98	99	97

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-06

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid				
Method:	EPA 8020				
Analyst:	N. Herrera				
ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes	
QC Batch #:	GC070298BTEX02A				
Sample No.:	GW9806G68-10				
Date Prepared:	7/2/98	7/2/98	7/2/98	7/2/98	
Date Analyzed:	7/2/98	7/2/98	7/2/98	7/2/98	
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02	
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.	
Conc. Spiked, ug/L:	10	10	10	30	
Matrix Spike, ug/L:	10	9.6	9.5	28	
% Recovery:	102	96	95	93	
Matrix Spike Duplicate, ug/L:	9.9	9.3	9.3	27	
% Recovery:	99	93	93	90	
Relative % Difference:	3.0	3.2	2.1	3.3	
RPD Control Limits:	0-25	0-25	0-25	0-25	

LCS Batch#:	GWBLK070298ABS			
Date Prepared:	7/2/98	7/2/98	7/2/98	7/2/98
Date Analyzed:	7/2/98	7/2/98	7/2/98	7/2/98
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	11	9.9	9.9	29
LCS % Recovery:	106	99	99	97

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:

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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-09

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015
Analyst:	
ANALYTE	Gasoline

QC Batch #: GC070198BTEX17A

Sample No.:	GW9806F55-01
Date Prepared:	7/1/98
Date Analyzed:	7/198
Instrument I.D.#:	GCHP17
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	250
Matrix Spike, ug/L:	220
% Recovery:	88
Matrix Spike Duplicate, ug/L:	220
% Recovery:	88
Relative % Difference:	0.0
RPD Control Limits:	0-25

LCS Batch#: GWBLK070198AS

Date Prepared:	7/1/98
Date Analyzed:	7/198
Instrument I.D.#:	GCHP17
Conc. Spiked, ug/L:	250
LCS Recovery, ug/L:	21
LCS % Recovery:	8.4

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F55-11

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015
Analyst:	N. Herrera
ANALYTE	Gasoline

QC Batch #: GC062998BTEX03A

Sample No.:	GW9806H08-2
Date Prepared:	6/29/98
Date Analyzed:	6/29/98
Instrument I.D.#:	GCHP03
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	250
Matrix Spike, ug/L:	230
% Recovery:	92
Matrix Spike Duplicate, ug/L:	220
% Recovery:	88
Relative % Difference:	4.4
RPD Control Limits:	0-25

LCS Batch#: GWBLK062998ABS

Date Prepared:	6/29/98
Date Analyzed:	6/29/98
Instrument I.D.#:	GCHP03
Conc. Spiked, ug/L:	250
LCS Recovery, ug/L:	200
LCS % Recovery:	80

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
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819 Striker Avenue, Suite B, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F57-12

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8020
Analyst: N. Herrera

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #:	GC063098BTEX17A			
Sample No.:	GW9806H03-12			
Date Prepared:	6/30/98	6/30/98	6/30/98	6/30/98
Date Analyzed:	6/30/98	6/30/98	6/30/98	6/30/98
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30
Matrix Spike, ug/L:	9.3	8.9	10	27
% Recovery:	93	89	100	90
Matrix Spike Duplicate, ug/L:	9.2	8.7	10	26
% Recovery:	92	87	100	87
Relative % Difference:	1.1	2.3	0.0	3.4
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#:	GWBLK063098ABS			
Date Prepared:	6/30/98	6/30/98	6/30/98	6/30/98
Date Analyzed:	6/30/98	6/30/98	6/30/98	6/30/98
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	9.2	8.6	9.8	26
LCS % Recovery:	92	86	98	87

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 201013X

QC Sample Group: 9806F57-13,14

Reported: Jul 8, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015
Analyst:	N. Herrera
ANALYTE	Gasoline

QC Batch #: GC062998BTEX21A

Sample No.:	GW9806E08-2
Date Prepared:	6/29/98
Date Analyzed:	6/29/98
Instrument I.D.#:	GCHP21
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	250
Matrix Spike, ug/L:	230
% Recovery:	92
Matrix Spike Duplicate, ug/L:	230
% Recovery:	92
Relative % Difference:	0.0
RPD Control Limits:	0-25

LCS Batch#: GW8LK062998ABS

Date Prepared:	6/29/98
Date Analyzed:	6/29/98
Instrument I.D.#:	GCHP21
Conc. Spiked, ug/L:	250
LCS Recovery, ug/L:	220
LCS % Recovery:	88

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

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Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: ENVIRONMENTAL RESOLUTIONS, INC.			**Page** 1 of 2
Address: 74 DIGITAL DR, SUITE G, NOVATO, CA 94949			**Site Location:** 720 HIGH ST.
Project #:	**Consultant Project #:** 701013X		**Consultant Work Release #:** 19432503
Project Contact: MARC BRIGGS	**Phone #:** (415) 382-5991		**Laboratory Work Release #:**
EXXON Contact: MARLA GUENSLER	**Phone #:** (510) 246-8776		**EXXON RAS #:** 7-3006
Sampled by (print): PAUL BLANK	**Sampler's Signature:** Paul D. Blank		OAKLAND
Shipment Method:	**Air Bill #:**		

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED 9806 F55 / F57

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE 8020		Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
W-8-MW10	6-23-98	1230/1235	WATER	HCl	5	01	X	X		X		
W-10-MW11		1245/1250				02	X	X		X		24 1
W-K8-MW9		1300/1305				03	X	X		X		
W-10-MW1		1315/1320				04	X	X		X		
W-13-MW4		1330/1335				05	X	X		X		
W-11-MW14		1345/1350				06	X	X		X		
W-9-MW15		1400/1405				07	X	X		X		
W-12-MW3		1415/1420				08	X	X		X		
W-9-MW7		1425/1430				09	X	X		X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Paul D. Blank	6.24.98	1215	SEQUOIA	6.24.98	1215	
	6.24.98		SEQUOIA	6/24/98	1345	

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: ENVIRONMENTAL RESOLUTIONS, INC.			**Page** 2 **of** 2
Address: 74 DIGITAL DR., SUITE 6, NOVATO, CA 94949			**Site Location:** 720 HIGH ST.
Project #:	**Consultant Project #:** 701013x		**Consultant Work Release #:** 19432503
Project Contact: MARC BRIGGS	**Phone #:** (415) 382-5991		**Laboratory Work Release #:**
EXXON Contact: MARLA GUENSLER	**Phone #:** (510) 246-8776		**EXXON RAS #:** 7-3006
Sampled by (print): PAUL BLANK	**Sampler's Signature:** Paul D. Blank		OAKLAND
Shipment Method:	**Air Bill #:**		

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ Standard (10 day)

ANALYSIS REQUIRED 8 0 6 F55 / F57

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE 8020		Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
W-9-MW13	6-23-98	1435/1440	WATER	HCl/HCl	5	10	X	X		X		
W-12-MW2	↓	1445/1450	↓	↓	↓	11	X	X		X		≤ 24 ±
W-22-MW8		1455/1500			4	12	X	X		X		
W-30-MW6		1505/1510			5	13	X	X		X		
W-8-MW12	↓	1515/1520	↓	↓	↓	14	X	X		X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Paul D. Blank	6.24.98	1215	SEQUOIA	6.24	1215	
	6.24.98					

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Received: 06/24/98
74 Digital Drive , Suite 6		
Novato, CA 94949	Lab Proj. ID: 9806F55	Reported: 07/08/98
Attention: Marc Briggs		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 4 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201013X	Received: 06/24/98
74 Digital Drive , Suite 6		
Novato, CA 94949	Lab Proj. ID: 9806F57	Reported: 07/08/98
Attention: Marc Briggs		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 114 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100
1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 2010-11X	Sampled: 05/05/98
74 Digital Drive , Suite 6	Sample Descript: W-INF1	Received: 05/06/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/11/98
Attention: Marc Briggs	Lab Number: 9805328-01	Reported: 05/14/98

QC Batch Number: GC051198BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	500	2300
Benzene	5.0	380
Toluene	5.0	27
Ethyl Benzene	5.0	26
Xylenes (Total)	5.0	390
Chromatogram Pattern:		Gas

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	119

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 2010-11X	Sampled: 05/05/98
74 Digital Drive , Suite 6	Sample Descript: W-INF2	Received: 05/06/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/12/98
Attention: Marc Briggs	Lab Number: 9805328-02	Reported: 05/14/98

QC Batch Number: GC051298BTEX21A
Instrument ID: GCHP21

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	89

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 2010-11X	Sampled: 05/05/98
74 Digital Drive , Suite 6	Sample Descript: W-EFF	Received: 05/06/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/11/98
Attention: Marc Briggs	Lab Number: 9805328-03	Reported: 05/14/98

QC Batch Number: GC051198BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	104

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 2010-11X	Sampled: 05/05/98
74 Digital Drive , Suite 6	Sample Descript: W-INT	Received: 05/06/98
Novato, CA 94949	Matrix: LIQUID	
	Analysis Method: 8015Mod/8020	Analyzed: 05/11/98
Attention: Marc Briggs	Lab Number: 9805328-04	Reported: 05/14/98

QC Batch Number: GC051198BTEX06A
Instrument ID: GCHP06

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	50	N.D.
Benzene	0.50	N.D.
Toluene	0.50	N.D.
Ethyl Benzene	0.50	N.D.
Xylenes (Total)	0.50	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	107

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

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404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 2010-11X

QC Sample Group: 9805328-02

Reported: Jul 23, 1998

QUALITY CONTROL DATA REPORT

Matrix:	Liquid
Method:	EPA 8015/8020
Analyst:	C. Demartini
ANALYTE	Gasoline

QC Batch #: GC051298BTEX21A

Sample No.:	GW9805222-2
Date Prepared:	5/12/98
Date Analyzed:	5/12/98
Instrument I.D.#:	GCHP3
Sample Conc., ug/L:	N.D.
Conc. Spiked, ug/L:	250
Matrix Spike, ug/L:	240
% Recovery:	96
Matrix Spike Duplicate, ug/L:	250
% Recovery:	100
Relative % Difference:	4.1
RPD Control Limits:	0-25

LCS Batch#: AWBLK051298A

Date Prepared:	5/12/98
Date Analyzed:	5/12/98
Instrument I.D.#:	GCHP21
Conc. Spiked, ug/L:	250
LCS Recovery, ug/L:	260
LCS % Recovery:	104

Percent Recovery Control Limits:

MS/MSD	60-140
LCS	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 2010-11X

QC Sample Group: 9805328-01,03,04

Reported: Jul 23, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015/8020
Analyst: G. Peshina

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes	Gasoline
QC Batch #:	GC051198BTEX06A				
Sample No.:	GW9805157-2				
Date Prepared:	5/11/98	5/11/98	5/11/98	5/11/98	5/11/98
Date Analyzed:	5/11/98	5/11/98	5/11/98	5/11/98	5/11/98
Instrument I.D.#:	GCHP06	GCHP06	GCHP06	GCHP06	GCHP06
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30	60
Matrix Spike, ug/L:	10	10	10	31	40
% Recovery:	100	100	100	103	67
Matrix Spike Duplicate, ug/L:	10	10	10	31	40
% Recovery:	100	100	100	103	67
Relative % Difference:	0.0	0.0	0.0	0.0	0.0
RPD Control Limits:	0-25	0-25	0-25	0-25	0-25

LCS Batch#:	GWBLK051198A				
Date Prepared:	5/11/98	5/11/98	5/11/98	5/11/98	5/11/98
Date Analyzed:	5/11/98	5/11/98	5/11/98	5/11/98	5/11/98
Instrument I.D.#:	GCHP06	GCHP06	GCHP06	GCHP06	GCHP06
Conc. Spiked, ug/L:	10	10	10	30	60
LCS Recovery, ug/L:	9.1	9.0	9.0	27	44
LCS % Recovery:	91	90	90	90	73

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Consultant's Name: Environmental Resolutions Inc — **Page** 1 of ___

Address:		**Site Location:** 720 High St, Oakland, CA
Project #: 2010-117	**Consultant Project #:** 2010-117	**Consultant Work Release #:** 19432503
Project Contact: Marc Briggs	**Phone #:** (415) 382-9105	**Laboratory Work Release #:**
EXXON Contact: Marla Guensler	**Phone #:** (925) 246-8776	**EXXON RAS #:** 3006
Sampled by (print): DAVID ARNOLD	**Sampler's Signature:**	
Shipment Method:	**Air Bill #:**	

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ ~~Standard~~ (10 day)

ANALYSIS REQUIRED 9805328

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520			Temperature: ___ Inbound Seal: Yes No Outbound Seal: Yes No
W-INF 1	5/5	1:00	water	HCl	1	1	X					
W-INF 2	5/5	1:00	water	HCl	1	2	X					
W-EFF	5/5	1:00	water	HCl	1	3	X					
W-INT	5/5	1:00	water	HCl	1	4	X					
A-INF	5/5	1:00	Air		1		X					
A-~~0~~ EFF	5/5	1:00	Air		1		X					

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
	5/6	10:40	Sequoia Analytical	5/6	10:40	
	5/6/98		Jeri Downs	5/6	1314	

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (925) 988-9600, FAX (925) 988-9673
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions 74 Digital Drive , Suite 6 Novato, CA 94949 Attention: Marc Briggs	Client Proj. ID: Exxon 7-3006, 2010-11X Lab Proj. ID: 9805328	Received: 05/06/98 Reported: 05/14/98

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 8 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 2010-11X	Sampled: 05/05/98
74 Digital Drive , Suite 6	Sample Descript: A-INF	Received: 05/06/98
Novato, CA 94949	Matrix: AIR	
	Analysis Method: 8015Mod/8020	Analyzed: 05/08/98
Attention: Marc Briggs	Lab Number: 9805246-01	Reported: 05/15/98

QC Batch Number: GC050898BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10	N.D.
Benzene	0.10	N.D.
Toluene	0.10	N.D.
Ethyl Benzene	0.10	N.D.
Xylenes (Total)	0.10	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	94

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (650) 364-9600, FAX (650) 364-9233
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1455 McDowell Blvd. North, Ste. D, Petaluma, CA 94954, (707) 792-1865, FAX (707) 792-0342

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 2010-11X	Sampled: 05/05/98
74 Digital Drive , Suite 6	Sample Descript: A-EFF	Received: 05/06/98
Novato, CA 94949	Matrix: AIR	
	Analysis Method: 8015Mod/8020	Analyzed: 05/08/98
Attention: Marc Briggs	Lab Number: 9805246-02	Reported: 05/15/98

QC Batch Number: GC050898BTEX17A
Instrument ID: GCHP17

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit ug/L	Sample Results ug/L
TPPH as Gas	10	N.D.
Benzene	0.10	N.D.
Toluene	0.10	N.D.
Ethyl Benzene	0.10	N.D.
Xylenes (Total)	0.10	N.D.
Chromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	86

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Richard Herling
Project Manager

Sequoia Analytical

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Environmental Resolutions
74 Digital Drive, Suite 6
Novato, CA 94949
Attention: Marc Briggs

Client Project ID: Exxon 7-3006, 2010-11X

QC Sample Group: 9805246-01,02

Reported: Jul 23, 1998

QUALITY CONTROL DATA REPORT

Matrix: Liquid
Method: EPA 8015/8020
Analyst: D. Jirsa

ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX as TPH
QC Batch #:	GC050898BTEX17A				
Sample No.:	GW9805126-1				
Date Prepared:	5/8/98	5/8/98	5/8/98	5/8/98	5/8/98
Date Analyzed:	5/8/98	5/8/98	5/8/98	5/8/98	5/8/98
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17	GCHP17
Sample Conc., ug/L:	N.D.	N.D.	N.D.	N.D.	N.D.
Conc. Spiked, ug/L:	10	10	10	30	60
Matrix Spike, ug/L:	10	10	11	29	46
% Recovery:	100	100	110	97	77
Matrix Spike Duplicate, ug/L:	10	10	9.1	31	47
% Recovery:	100	100	91	103	78
Relative % Difference:	0.0	0.0	19	6.0	1.3
RPD Control Limits:	0-25	0-25	0-25	0-25	0-25

LCS Batch#:	GAWBLK050898A				
Date Prepared:	5/8/98	5/8/98	5/8/98	5/8/98	5/8/98
Date Analyzed:	5/8/98	5/8/98	5/8/98	5/8/98	5/8/98
Instrument I.D.#:	GCHP17	GCHP17	GCHP17	GCHP17	GCHP17
Conc. Spiked, ug/L:	10	10	10	30	60
LCS Recovery, ug/L:	9.3	9.4	9.3	28	43
LCS % Recovery:	93	94	93	93	72

Percent Recovery Control Limits:

MS/MSD	60-140	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130	70-130

Quality Assurance Statement: All standard operating procedures and quality control requirements have been met.

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

Please Note:
The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

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680 Chesapeake Dr.
Redwood City, CA 94063
(415) 364-9600 • FAX (415) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7426

CHAIN OF CUSTODY

Page 1 of 1

Consultant's Name: Environmental Resolutions Inc

Address:

Project #: 2010-117

Project Contact: Marc Briggs

EXXON Contact: Marla Guensler

Sampled by (print): DAVID ALEXANDER

Shipment Method:

Consultant Project #: 2010-117

Phone #: (415) 382-9105

Phone #: (925) 246-8776

Sampler's Signature:

Air Bill #:

Site Location: 720 High St, Oakland, CA

Consultant Work Release #: 19432503

Laboratory Work Release #:

EXXON RAS #: 5006

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☑ Standard (10 day)

ANALYSIS REQUIRED 8015/8020

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520			Temperature: _____ Inbound Seal: Yes No Outbound Seal: Yes No
W-INF 1	5/5	1:00	water	HCl	1		X					
W-INF 2	5/5	1:00	water	HCl	1		X					
W-EFF	5/5	1:00	water	HCl	1		X					
W-INT	5/5	1:00	water	HCl	1		X					
A-INF	5/5	1:00	Air		1		X					
A-EFF	5/5	1:00	Air		1		X					

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
	5/6	10:40	Sequoia Analytical	5/6	10:40	
	5/6/96			5/6	1314	

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical

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Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 2010-11X	Received: 05/06/98
74 Digital Drive , Suite 6		
Novato, CA 94949	Lab Proj. ID: 9805246	Reported: 05/15/98
Attention: Marc Briggs		

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 5 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

SEQUOIA ANALYTICAL

Richard Herling
Project Manager

ATTACHMENT C

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

HYDROCARBON REMOVED FROM A VADOSE WELL
SOP-25
Rev: 10'C

Rev. 4/29/97

POUNDS OF HYDROCARBON IN AN VAPOR STREAM

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

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

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

SAMPLE DATA AND CALCULATIONS

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

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

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

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

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

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

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

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