EXXON COMPANY, U.S.A.

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

DARIN L. ROUSE
SENIOR ENGINEER
(925) 246-8768
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ENVIRONMENTAL PROTECTION

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#136

August 17, 1999

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

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

Dear Mr. Chan:

Attached for your review and comment is a letter report entitled ***Quarterly Groundwater Monitoring and Remediation Status Report, Second Quarter 1999,*** dated August 4, 1999, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of the quarterly groundwater monitoring, sampling and remedial activities at the subject site.

If you have any questions or comments, please contact me at (925) 246-8768.

Sincerely,

Darin L. Rouse
Senior Engineer

Attachment: ERI's Quarterly Groundwater Monitoring and Remediation Status Report, Second Quarter 1999, dated August 4, 1999.

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

w/o attachment
Mr. Peter A. Petro - Environmental Resolutions, Inc.
Ms. Kathy Simonelli - Geologic Services Corporation

ENVIRONMENTAL RESOLUTIONS, INC.

August 4, 1999
ERI 201011.R20

Mr. Darin L. Rouse
Exxon Company, U.S.A.
P.O. Box 4032
Concord, California 94524-4032

Subject: Quarterly Groundwater Monitoring and Remediation Status Report, Second Quarter 1999, Former Exxon Service Station 7-3006, 720 High Street, Oakland, California.

Mr. Rouse:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is reporting the results of second quarter 1999, groundwater monitoring and sampling and remedial activities at the subject site. The location of the site is shown on the Site Vicinity Map (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 concentrations of dissolved hydrocarbons in groundwater and the effectiveness of remedial actions. The location of selected site features are shown on the Generalized Site Plan (Plate 2). Blaine Tech Services, Inc. (Blaine Tech) performed the groundwater sampling and monitoring, ERI performed operation and maintenance activities.

GROUNDWATER MONITORING AND SAMPLING

On June 22, 1999, Blaine Tech measured the depth to water (DTW) and collected groundwater samples from select wells for laboratory analysis. Work was performed in accordance with Blaine Tech's groundwater sampling protocol (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. Therefore, a hydraulic gradient and flow direction have not been calculated.

Laboratory Analyses and Results

Groundwater samples were submitted to Sequoia Analytical Laboratories, Inc., a state-certified laboratory, under Chain of Custody protocol. The samples were analyzed for total purgeable petroleum hydrocarbons as gasoline (TPPHg), benzene, toluene, ethylbenzene, and 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 analyses are presented 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 laboratory analysis reports 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 six 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 polyvinyl 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).

County OK discontinuing GRS.

The GRS 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 is removing residual hydrocarbons in soil and dissolved hydrocarbons in groundwater. The estimated amount of hydrocarbons removed by the system was performed according to ERI's standard operation procedures (SOP-25 "Hydrocarbons Removed from a Vadose Well") included in Attachment C. ERI will continue to operate the remedial systems, monitor, and sample groundwater at the site during the third quarter 1999.

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

Period	Pounds of Hydrocarbons Removed	Gallons of Hydrocarbons Removed
04/16/99 – 06/29/99	8	1
To Date:	5,140	844

The GRS was not operational during the second quarter 1999. Based on data collected to date, ERI estimates that the GRS has removed the following amounts of hydrocarbons at the subject site.

Period	Pounds of Hydrocarbons Removed	Gallons of Hydrocarbons Removed
04/16/99 - 06/29/99	0	0
To Date:	10	2

LIMITATIONS

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

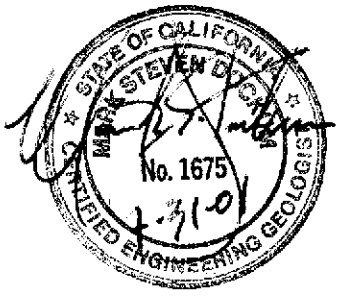
ERI recommends forwarding copies of this report to:

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

Mr. Stephen Hill
California Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

If you have any questions or comments regarding this report, please call Mr. Peter A. Petro at (415) 382-5995.

Sincerely,
Environmental Resolutions, Inc.



Peter A. Petro
Assistant Project Manager

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

Attachments:

Table 1:	Cumulative Groundwater Monitoring and Sampling Data
Table 2:	Cumulative Hydrocarbon Removal and Emissions for Soil Vapor Extraction System
Table 3:	Operation and Performance Data for Groundwater Remediation System
Plate 1:	Site Vicinity Map
Plate 2:	Generalized Site Plan
Attachment A:	Groundwater Sampling Protocol
Attachment B:	Laboratory Analysis Reports and Chain of Custody Records
Attachment C:	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 #	Sampling	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
(TOC)	Date	<.....feet.....>			<.....ug/l.....>									
MW1	1/20/94	NLPH	9.25	3.62	---	---	---	---	---	---	---	---	---	---
(12.87)	02/02-03/94	NLPH	8.60	4.27	70	<50	---	<0.5	<0.5	<0.5	0.7	---	---	---
	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	100	<50	---	<0.5	<0.5	<0.5	1.6	---	---	---
	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	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/25/94	NLPH	10.19	2.68	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	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	100	0.52	<0.5	<0.5	<0.5	---	---	---
	6/7/95	NLPH	7.62	5.25	81	<50	3.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/18/95	NLPH	10.02	2.85	82	<50	6	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/1/95	NLPH	10.74	2.13	160	<50	8.9	<0.5	<0.5	<0.5	<0.5	---	---	---
	2/14/96	NLPH	7.81	5.06	100	<50	7.8	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/19/96	NLPH	7.47	5.40	93	<50	7.1	<0.5	<0.5	<0.5	<0.5	---	<50	---
	9/24/96	NLPH	10.42	2.45	83	<50	9.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/11/96	NLPH	8.50	4.37	81	<50	7.2	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/19/97	NLPH	9.14	3.73	78	<50	6.4	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/4/97	NLPH	9.82	3.05	58	<50	6.0	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/2/97	NLPH	10.26	2.61	150	<50	5.4	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/2/97	NLPH	9.32	3.55	88	<50	5.1	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/24/98	NLPH	6.44	6.43	58	<50	5.6	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/23/98	NLPH	9.23	3.64	84	<50	3.8	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/29/98	NLPH	9.91	2.96	61	<50	2.6	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/30/98	NLPH	9.21	3.66	80	<50	4.1	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/24/99	NLPH	5.53	7.34	64.3	<50	4.95	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/22/99	**NLPH**	**7.39**	**5.48**	**83.5**	**<50**	**3.70**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**---**	**---**	**---**
MW2	1/20/94	--- [NR]	---	---	---	---	---	---	---	---	---	---	---	---
(12.98)	02/02-03/94	--- [NR]	---	---	---	---	---	---	---	---	---	---	---	---
	3/10/94	[8 c.]	6.96	6.02	---	---	---	---	---	---	---	---	---	---
	4/22/94	[10 c.]	---	---	---	---	---	---	---	---	---	---	---	---
	05/10-11/94	[5 c.]	---	---	---	---	---	---	---	---	---	---	---	---
	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	---	7.33	5.65	---	---	---	---	---	---	---	---	---	---
	12/27/94	Sheen	6.77	6.21	---	---	---	---	---	---	---	---	---	---
	2/6/95	Sheen	5.00	7.98	---	---	---	---	---	---	---	---	---	---

TABLE 1
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Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
(TOC)	Date	<.....feet.....>			<.....ug/l.....>									
MW2 (cont.)	6/7/95	Sheen	7.14	5.84	---	---	---	---	---	---	---	---	---	---
(12.98)	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	820	1,400	57	15	2.8	8.6	<2.5	---	---	---
	3/27/98	NLPH	6.06	6.92	2,000	7,400	<50	1,400	350	490	1,500	---	---	---
	6/23/98	Sheen	11.06	1.92	2,900	180	9.5	3.2	0.55	0.92	1.3	---	---	---
	9/29/98	NLPH	10.51	2.47	180	290	9.3	<0.50	0.65	1.5	1.5	---	---	---
	12/30/98	NLPH	9.83	3.15	700	520	16	17	0.96	2.6	5.5	---	---	---
	3/24/99	NLPH	4.47	8.51	1,440	14,000	<40	1,300	336	786	3,420	---	---	---
	6/22/99	**NLPH**	**6.42**	**6.56**	**2,310**	**1,080**	**25.2**	**54.3**	**14.9**	**38.8**	**107**	**---**	**---**	**---**
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	---	---	---	---	---	---	---	---	---	---
	9/29/94	Sheen	8.97	3.95	---	---	---	---	---	---	---	---	---	---
	10/25/94	Sheen	9.43	3.49	---	---	---	---	---	---	---	---	---	---
	11/28/94	---	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	17,000*	4,800	30	340	<5.0	8.2	20	---	---	---
	3/19/97	NLPH	9.83	3.09	3,000	1,900	80	160	11	5.6	10	---	---	---
	6/4/97	NLPH	10.43	2.49	8,000	920	11	15	2.8	2.4	<2.0	---	---	---
	9/2/97	Sheen	12.45	0.47	---	---	---	---	---	---	---	---	---	---
	12/2/97	NLPH	11.21	1.71	6,700	920	21	10	2.1	<1.0	2.7	---	---	---
	3/24/98	NLPH	5.93	6.99	4,600	1,500	25	5,500	<5.0	<5.0	<5.0	---	---	---

Consultants suggest sheen is not petroleum hydrocarbons

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.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
(TOC)	Date	<	feet	>	<				ug/l					>
MW3 (cont.)	6/23/98	NLPH	11.13	1.79	39,000	1,300	9.4	53	<1.0	<1.0	<1.0	---	---	---
(12.92)	9/29/98	Sheen	10.46	2.46	2,500	540	<5.0	6.8	1.9	1.4	2.3	---	---	---
	12/30/98	NLPH	9.72	3.20	11,000	4,000	<50	74	<10	<10	<10	---	---	---
	3/24/99	Sheen	4.36	8.56	3,850	2,330	<20	<5.0	<5.0	<5.0	<5.0	---	---	---
	6/22/99	**NLPH**	**6.22**	**6.70**	**6,860**	**1,470**	**<10**	**492**	**<2.5**	**<2.5**	**<2.5**	**---**	**---**	**---**
MW4	1/20/94	--- [NR]	---	---	---	---	---	---	---	---	---	---	---	---
(12.77)	02/02-03/94	--- [1 c.]	---	---	---	---	---	---	---	---	---	---	---	---
	3/10/94	[8 c.]	7.12	5.65	---	---	---	---	---	---	---	---	---	---
	4/22/94	[10 c.]	---	---	---	---	---	---	---	---	---	---	---	---
	05/10-11/94	[5 c.]	---	---	---	---	---	---	---	---	---	---	---	---
	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	---	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	15,000	1,500	50	<2.5	9.7	3.0	10	---	---	---
	3/24/98	NLPH	5.79	6.98	6,400	540	38	<0.5	4.4	1.6	5.4	---	---	---
	6/23/98	Sheen	8.50	4.27	7,500	1,000	25	3.3	<2.0	<2.0	<2.0	---	---	---
	9/29/98	Sheen	9.77	3.00	65,000	7,300	<50	<10	<10	<10	<10	---	---	---
	12/30/98	Sheen	8.54	4.23	12,000	1,000	170	3.8	5.1	<2.5	4.1	---	---	---
	3/24/99	Sheen	4.41	8.36	20,500	1,300	4.40	2.64	<1.0	<1.0	<1.0	---	---	---
	6/22/99	**NLPH**	**5.71**	**7.06**	**9,760**	**1,470**	**<10**	**404**	**<2.5**	**<2.5**	**<2.5**	**---**	**---**	**---**
MW5	7/18/89	Well Destroyed												

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.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
(TOC)	Date	<	feet	>	<				ug/l					>
MW6	1/20/94	--- [NR]	---	---	---	---	---	---	---	---	---	---	---	---
(14.27)	02/02-03/94	--- [NR]	---	---	---	---	---	---	---	---	---	---	---	---
	3/10/94	[¼ c.]	7.82	6.45	---	---	---	---	---	---	---	---	---	---
	4/22/94	[10 c.]	---	---	---	---	---	---	---	---	---	---	---	---
	05/10-11/94	[3 c.]	---	---	---	---	---	---	---	---	---	---	---	---
	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	---	8.05	6.22	---	---	---	---	---	---	---	---	---	---
	12/27/94	---	7.54	6.73	---	---	---	---	---	---	---	---	---	---
	2/6/95	Sheen	5.86	8.41	---	---	---	---	---	---	---	---	---	---
	6/7/95	Sheen	8.07	6.20	---	---	---	---	---	---	---	---	---	---
	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	2,900	9,100	<100	2,100	22	160	260	---	---	---
	3/19/97	NLPH	10.14	4.13	3,800	24,000	250	5,800	91	1,300	1,900	---	---	---
	6/4/97	NLPH	10.58	3.69	3,300	20,000	270	4,400	<50	540	480	---	---	---
	9/2/97	NLPH	11.02	3.25	2,100	8,100	<25	1,800	<25	140	170	---	---	---
	12/2/97	NLPH	10.45	3.82	2,300	6,800	<100	1,100	<20	77	74	---	---	---
	3/24/98	NLPH	7.09	7.18	3,800	20,000	<250	4,300	<50	2,200	1,500	---	---	---
	6/23/98	Sheen	9.79	4.48	4,100	19,000	<500	3,400	<100	1,800	1,100	---	---	---
	9/29/98	NLPH	10.56	3.71	2,300	8,600	<100	2,100	25	300	260	---	---	---
	12/30/98	NLPH	9.97	4.30	2,700	6,800	<125	1,600	<25	84	200	---	---	---
	3/24/99	Sheen	5.02	9.25	2,670	12,600	<20	3,380	16.5	221	190	---	---	---
	6/22/99	**NLPH**	**6.91**	**7.36**	**5,670**	**6,720**	**<40**	**2,400**	**<10**	**767**	**14.4**	---	---	---
MW7	1/20/94	NLPH	8.67	6.17	---	---	---	---	---	---	---	---	---	---
(14.84)	02/02-03/94	NLPH	8.47	6.37	1,300	2,900	---	79	5	8.2	21	---	---	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	1,300	2,400	---	88	5.6	5.2	15	---	---	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	56	1,900	---	71	3.1	3.5	7.8	---	---	---
	10/25/94	NLPH	9.96	4.88	89	1,400	---	51	1.5	24	6.8	---	---	---
	11/30/94	---	7.78	7.06	---	---	---	---	---	---	---	---	---	---
	12/27/94	---	7.51	7.33	---	---	---	---	---	---	---	---	---	---
	2/6/95	NLPH	5.79	9.05	1,300	2,500	---	130	<10	<10	<10	ND	1,100	---

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.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
(TOC)	Date	<	feet	>	<				ug/l					>
MW7 (cont.)	6/7/95	NLPH	7.73	7.11	1,200	2,400	39	91	5	7.6	14	---	1,000	---
(14.84)	9/18/95	NLPH	9.81	5.03	1,100	1,800	<25	17	<5.0	<5.0	<5.0	---	870	---
	11/1/95	NLPH	10.56	4.28	1,700	3,000	<13	2.7	11	25	<2.5	---	1,400	---
	2/14/96	NLPH	8.04	6.80	1,200	1,900	<25	59	<5.0	<5.0	<5.0	---	940	---
	6/19/96	NLPH	7.33	7.51	1,400	2,000	<25	96	<5.0	<5.0	5.6	ND	1,000	---
	9/24/96	NLPH	10.10	4.74	1,100	950	<25	6.8	<5.0	<5.0	<5.0	ND	910	---
	12/11/96	NLPH	8.50	6.34	1,600	2,500	<10	50	<2.0	6.4	30	ND	1,100	---
	3/19/97	NLPH	8.88	5.96	840	2,700	<25	61	8.0	21	68	ND	580	---
	6/4/97	NLPH	9.38	5.46	1,000	1,900	<2.5	45	<2.0	5.3	13	ND	780	---
	9/2/97	NLPH	9.69	5.15	790	1,700	<2.5	28	2.2	<2.0	5.9	ND	740	---
	12/2/97	NLPH	8.65	6.19	1,100	2,000	14	33	2.2	2.0	5.8	---	---	---
	3/24/98	NLPH	6.40	8.44	950	2,300	<25	73	<5.0	<5.0	22	---	---	---
	6/23/98	NLPH	8.34	6.50	1,600	4,700	140	50	<5.0	12	20	---	---	---
	9/29/98	NLPH	9.76	5.08	630	700	<5.0	2.7	1.3	2.4	5.3	---	---	---
	12/30/98	NLPH	8.86	5.98	1,700	1,400	<5.0	17	7.7	2.8	16	---	---	---
	3/24/99	Sheen	5.48	9.36	860	1,740	6.73	59.2	2.76	4.33	15.1	---	---	---
	6/22/99	**NLPH**	**6.54**	**8.30**	**5,330**	**3,250**	**<4.0**	**59.5**	**3.96**	**2.89**	**6.38**	**---**	**---**	**---**
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	---	---	---	---	---	---	---	---	---	---
	9/29/94	Sheen	9.76	3.69	---	---	---	---	---	---	---	---	---	---
	10/25/94	Sheen	10.05	3.40	---	---	---	---	---	---	---	---	---	---
	11/30/94	---	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	8,000	20,000	<50	57	<50	850	660	ND	---	---
	12/2/97	NLPH	8.83	4.62	2,700	6,900	130	83	<10	<10	100	---	---	---

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.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
(TOC)	Date	<	feet	>	<				ug/l					>
MW8 (cont.)	3/24/98	NLPH	6.52	6.93	2,900	10,000	<125	190	<25	470	330	---	---	---
(13.45)	6/23/98	NLPH	9.02	4.43	3,700	10,000	<50	140	<10	460	260	---	---	---
	9/29/98	NLPH	9.72	3.73	3,600	12,000	130	46	<10	340	190	---	---	---
	12/30/98	NLPH	9.06	4.39	3,000	11,000	140	170	<25	230	160	---	---	---
	3/24/99	Sheen	5.21	8.24	2,250	13,000	22.6	336	53.2	415	326	---	---	---
	6/22/99	**Sheen**	**6.51**	**6.94**	**4,010**	**13,000**	**64.9**	**174**	**<5.0**	**186**	**13.1**	---	---	---
MW9	1/20/94	---	---	---	---	---	---	---	---	---	---	---	---	---
(14.64)	02/02-03/94	---	---	---	---	---	---	---	---	---	---	---	---	---
	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	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/25/94	NLPH	9.66	4.98	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/30/94	---	8.38	6.26	---	---	---	---	---	---	---	---	---	---
	12/27/94	NLPH	7.29	7.35	---	---	---	---	--	---	---	---	---	---
	2/6/95	NLPH	5.74	8.90	56	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/7/95	NLPH	8.33	6.31	72	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/18/95	NLPH	9.28	5.36	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/1/95	NLPH	10.09	4.55	61	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	2/14/96	NLPH	6.26	8.38	83	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/19/96	NLPH	6.68	7.96	68	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	<50	---
	9/24/96	NLPH	9.72	4.92	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/11/96	NLPH	8.11	6.53	91	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/19/97	NLPH	7.72	6.92	140	<50	<2.5	0.83	<0.5	<0.5	<0.5	---	---	---
	6/4/97	NLPH	8.87	5.77	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/2/97	NLPH	9.44	5.20	140	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/2/97	NLPH	8.43	6.21	71	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/24/98	NLPH	5.84	8.80	62	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/23/98	NLPH	7.81	6.83	69	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/29/98	NLPH	9.26	5.38	52	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/30/98	NLPH	8.28	6.36	74	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/24/99	NLPH	4.74	9.90	71.1	b	---	---	---	---	---	---	---	---
	6/22/99	**Well not sampled**												

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	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
		<	feet	>	<				ug/l					>
MW10	1/20/94	NLPH	8.40	5.65	---	---	---	---	---	---	---	---	---	---
(14.05)	02/02-03/94	NLPH	8.00	6.05	<50	<50	---	<0.5	1	<0.5	1.8	---	---	---
	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	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	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	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	10/25/94	NLPH	9.41	4.64	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/30/94	---	7.62	6.43	---	---	---	---	---	---	---	---	---	---
	12/27/94	NLPH	7.01	7.04	---	---	---	---	---	---	---	---	---	---
	2/6/95	NLPH	5.60	8.45	---	<50	<50	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/7/95	NLPH	7.12	6.93	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/18/95	NLPH	8.54	5.51	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/1/95	NLPH	9.44	4.61	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	2/14/96	NLPH	9.36	4.69	64	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/19/96	NLPH	7.32	6.73	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	<50	---
	9/24/96	NLPH	9.07	4.98	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/11/96	NLPH	7.73	6.32	67	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/19/97	NLPH	7.62	6.43	51	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/4/97	NLPH	8.38	5.67	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/2/97	NLPH	8.64	5.41	120	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/2/97	NLPH	7.22	6.83	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/24/98	NLPH	5.71	8.34	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/23/98	NLPH	7.23	6.82	90	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/29/98	NLPH	8.39	5.66	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/30/98	NLPH	7.74	6.31	58	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/24/99	NLPH	4.74	9.31	<50	<50	<2.0	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/22/99	**Well not sampled**												
MW11	1/20/94	NLPH	9.61	3.94	---	---	---	---	---	---	---	---	---	---
(13.55)	02/02-03/94	NLPH	9.56	3.99	160	<50	---	<0.5	1	<0.5	0.9	---	---	---
	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	1002	<50	---	<0.53	<0.5	<0.5	3.2	---	---	---
	6/27/94	NLPH	8.65	4.90	---	---	---	---	---	---	---	---	---	---
	8/31/94	NLPH	9.80	3.75	---	---	---	---	---	---	---	---	---	---

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.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
(TOC)	Date	<	feet	>	<				ug/l					>
MW11 (cont.)	9/29/94	NLPH	10.16	3.39	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
(13.55)	10/25/94	NLPH	10.48	3.07	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/30/94	---	8.55	5.00	---	---	---	---	---	---	---	---	---	---
	12/27/94	NLPH	7.98	5.57	---	---	---	---	---	---	---	---	---	---
	2/6/95	NLPH	6.49	7.06	160	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/7/95	NLPH	7.98	5.57	50	<50	42	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/18/95	NLPH	10.12	3.43	56	<50	32	<0.5	<0.5	<0.5	<0.5	---	---	---
	11/1/95	NLPH	10.75	2.80	170	<50	35	<0.5	<0.5	<0.5	<0.5	---	---	---
	2/14/96	NLPH	8.03	5.52	76	<50	37	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/19/96	NLPH	7.85	5.70	92	<50	33	<0.5	<0.5	<0.5	<0.5	---	<50	---
	9/24/96	NLPH	10.45	3.10	58	<50	40	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/11/96	NLPH	9.02	4.53	110	<50	10	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/19/97	NLPH	9.16	4.39	100	<50	6.9	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/4/97	NLPH	9.91	3.64	<50	<50	5.6	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/2/97	NLPH	10.25	3.30	150	<50	4.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/2/97	NLPH	9.33	4.22	70	<50	5.8	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/24/98	NLPH	6.77	6.78	<50	<50	4.1	<0.5	<0.5	<0.5	<0.5	---	---	---
	6/23/98	NLPH	8.99	4.56	70	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/29/98	NLPH	9.89	3.66	76	<50	7.7	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/30/98	NLPH	9.17	4.38	71	<50	3.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	3/24/99	NLPH	5.79	7.76	58.2	<50	4.51	<0.5	1.20	<0.5	<0.5	---	---	---
	6/22/99	**Well not sampled**												
MW12	1/20/94	NLPH	7.81	4.80	---	---	---	---	---	---	---	---	---	---
(12.61)	02/02-03/94	NLPH	7.22	5.39	18,000	48,000	---	4,000	2,700	2,900	9,900	---	---	---
	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	8,200	46,000	---	30,003	1,600	2,900	9,100	---	---	---
	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	---	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 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

Well ID #	Sampling	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
(TOC)	Date	<	feet	>	<				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	3,900	45,000	<250	1,800	560	3,100	8,700	---	---	---
	3/24/98	NLPH	5.37	7.24	8,800	42,000	<250	820	280	2,800	6,800	---	---	---
	6/23/98	Sheen	8.43	4.18	7,800	39,000	560	1,000	200	2,300	4,900	---	---	---
	9/29/98	Sheen	8.94	3.67	21,000	40,000	<500	1,100	150	2,200	3,100	---	---	---
	12/30/98	Sheen	8.47	4.14	49,000	79,000	<500	1,400	400	3,300	8,500	---	---	---
	3/24/99	Sheen	3.71	8.90	5,070	40,600	<20	328	182	1,690	3,930	---	---	---
	6/22/99	**Sheen**	**4.91**	**7.70**	**15,000**	**54,800**	**109**	**203**	**244**	**1,530**	**3,790**	**---**	**---**	**---**
MW13	1/20/94	NLPH	9.08	5.12	---	---	---	---	---	---	---	---	---	---
(14.20)	02/02-03/94	NLPH	8.75	5.45	8,100	41,000	---	3,800	1,500	2,700	9,500	---	---	---
	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	15,000	39,000	---	3,400	930	2,400	8,900	---	---	---
	6/27/94	NLPH	7.97	6.23	---	---	---	---	---	---	---	---	---	---
	8/31/94	NLPH	9.21	4.99	---	---	---	---	---	---	---	---	---	---
	9/29/94	NLPH	9.61	4.59	320	57,000	---	2,100	470	2,600	8,100	---	---	---
	10/25/94	Sheen	9.93	4.27	---	---	---	---	---	---	---	---	---	---
	11/30/94	---	8.16	6.04	---	---	---	---	---	---	---	---	---	---
	12/27/94	---	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	16,000	14,000	<250	210	<50	920	1,000	---	---	---
	3/24/98	NLPH	6.71	7.49	1,700	5,600	55	110	6.0	420	330	---	---	---
	6/23/98	NLPH	8.87	5.33	3,800	12,000	200	120	<20	300	300	---	---	---
	9/29/98	NLPH	9.79	4.41	2,400	4,900	130	130	12.0	410	200	---	---	---
	12/30/98	NLPH	9.03	5.17	2,000	6,700	520	100	11	400	250	---	---	---
	3/24/99	Sheen	4.91	9.29	688	3,730	15.5	35.9	1.58	150	112	---	---	---
	6/22/99	**Sheen**	**5.66**	**8.54**	**4,090**	**7,220**	**56.4**	**29.0**	**<5.0**	**496**	**318**	**---**	**---**	**---**

TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California
(Page 10 of 11)

Well ID # (TOC)	Sampling Date	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
		<	feet	>	<				ug/l					>
MW14	1/20/94	---	---	---	---	---	---	---	---	---	---	---	---	---
(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	11,002	300	---	2.7	7.9	2	27	---	---	---
	6/27/94	NLPH	8.19	6.99	---	---	---	---	---	---	---	---	---	---
	8/31/94	NLPH	9.44	5.74	---	---	---	---	---	---	---	---	---	---
	9/29/94	NLPH	9.82	5.36	NA	300	1,600	<0.5	<0.5	0.9	1.3	---	---	---
	10/25/94	NLPH	9.99	5.19	NA	200	210	<0.5	<0.5	0.8	<0.5	---	---	---
	11/30/94	---	8.16	7.02	---	---	---	---	---	---	---	---	---	---
	12/27/94	Sheen	8.15	7.03	---	---	---	---	---	---	---	---	---	---
	2/6/95	NLPH	7.18	8.00	1,200	360	---	<1.0	<1.0	<1.0	<1.0	---	---	400
	6/7/95	NLPH	7.70	7.48	1,100	670	<2.5	<0.5	<0.5	3.6	<0.5	---	450	---
	9/18/95	NLPH	9.88	5.30	1,900	1,300	<10	<2.0	<2.0	<2.0	3	---	1,200	---
	11/1/95	NLPH	10.56	4.62	2,700	1,100	<13	<2.5	<2.5	3.2	3.1	---	1,600	---
	2/14/96	NLPH	9.08	6.10	1,500	470	<2.5	<0.5	<0.5	1.3	<0.5	ND	680	---
	6/19/96	NLPH	8.50	6.68	2,000	610	<12	<2.5	<2.5	<2.5	<2.5	ND	670	---
	9/24/96	NLPH	10.23	4.95	5,100	1,000	<25	<5.0	<5.0	<5.0	<5.0	ND	4,500	---
	12/11/96	NLPH	9.09	6.09	2,100*	1,100	<10	<2.0	<2.0	<2.0	3.3	ND	750	---
	3/19/97	NLPH	7.99	7.19	1,400	690	<2.5	0.65	1.7	2.5	8.3	ND	470	---
	6/4/97	NLPH	9.30	5.88	1,500	730	<2.5	<1.2	<1.2	3.5	5.3	ND	590	---
	9/2/97	NLPH	9.92	5.26	1,900	910	<5.0	<5.0	<5.0	<5.0	5.9	ND	1,300	---
	12/2/97	NLPH	9.13	6.05	1,200	570	<2.5	0.85	<0.5	<0.5	1.7	---	---	---
	3/24/98	NLPH	8.52	6.66	1,300	650	5.7	1.7	<1.0	<1.0	2.3	---	---	---
	6/23/98	NLPH	8.69	6.49	1,100	470	<2.5	<0.5	1.5	1.1	3.0	---	---	---
	9/29/98	NLPH	9.41	5.77	930	570	<2.5	<0.50	<0.50	2.5	3.5	---	---	---
	12/30/98	NLPH	9.31	5.87	2,000	420	<2.5	<0.5	<0.5	<0.5	2.8	---	---	---
	3/24/99	NLPH	4.23	10.95	936	456	<2.0	<0.5	<0.5	0.685	<0.5	---	---	---
	6/22/99	**NLPH**	**7.24**	**7.94**	**1,720**	**403**	**<2.0**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	---	---	---
MW15	1/20/94	NLPH	7.48	6.25	---	---	---	---	---	---	---	---	---	---
(13.73)	02/02-03/94	NLPH	7.30	6.43	1,200	4,300	---	24	6.7	170	26	---	---	---
	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	1,400	3,900	---	16	<0.5	150	13	---	---	---
	6/27/94	NLPH	6.14	7.59	---	---	---	---	---	---	---	---	---	---
	8/31/94	NLPH	7.20	6.53	---	---	---	---	---	---	---	---	---	---
	9/29/94	NLPH	7.76	5.97	420	2,500	---	51	15	48	3.6	---	---	---
	10/25/94	Sheen	8.19	5.54	---	---	---	---	---	---	---	---	---	---
	11/30/94	---	8.57	5.16	---	---	---	---	---	---	---	---	---	---
	12/27/94	NLPH	6.49	7.24	---	---	---	---	---	---	---	---	---	---
	2/6/95	Sheen	4.97	8.76	---	---	---	---	---	---	---	---	---	---

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	Elev.	TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCss	TOG
		<.....feet.....>			<.....ug/l.....									>
MW15 (cont.)	6/7/95	Sheen	7.14	6.59	---	---	---	---	---	---	---	---	---	---
(13.73)	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	480	1,100	23	19	<2.0	11	4.9	---	---	---
	12/2/97	NLPH	8.43	5.30	600	1,700	58	20	<5.0	11	<5.0	---	---	---
	3/24/98	NLPH	6.35	7.38	450	2,100	<100	570	<20	<20	<20	---	---	---
	6/23/98	NLPH	7.79	5.94	570	2,300	<25	440	<5.0	30	<5.0	---	---	---
	9/29/98	Not Accessible		---	---	---	---	---	---	---	---	---	---	---
	12/30/98	NLPH	8.42	5.31	510	900	14	6.2	1.5	5.8	3.4	---	---	---
	3/24/99	NLPH	4.69	9.04	346	1,480	12.7	181	1.15	29.8	<1.0	---	---	---
	6/22/99	**NLPH**	**5.42**	**8.31**	**558**	**864**	**6.49**	**12.7**	**<0.5**	**3.28**	**1.38**	**---**	**---**	**---**

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
TEPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 3510/8015 (modified).
TPPHg	=	Total purgeable petroleum hydrocarbons as gasoline analyzed using EPA method 5030/8015 (modified).
MTBE	=	Methyl tertiary butyl ether analyzed using EPA method 5030/8020.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes 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.
---	=	Not measured/not analyzed.
<	=	Less than the indicated detection limit shown by the laboratory.
a	=	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.
b	=	Sample containers for TPPHg, BTEX, and MTBE were broken in transit.

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
4/26/95	A-INF	70		84			400	18.49	179.5	9.1	0.640	< 6.35	
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			< 0.0008
5/1/95	Installed third 500 lb canister in series												
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	< 7.58	
	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	< 8.11	
	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	< 8.78	
	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	< 9.53	
	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	< 9.94	
	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	< 10.42	
	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	< 14.00	
	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						
	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 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	< 30.84	
	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	< 31.88	
	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	< 41.98	
	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, # 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	< 41.98	
	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	< 42.03	
	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	< 42.07	
	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	< 42.09	
	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				176	45.8	1.1	194	54.26	2,620.7				
9/6/96	A-INF			176			150	21.73	2,642.4	< 0.1	< 0.678	< 42.77	
	A-EFF						< 10			< 0.1			< 0.0016
9/9/96				176	96	4.4	406	13.18	2,655.6				
9/24/96				184.8	141	5.1	597	121.82	2,777.4				
10/3/96	A-INF			176			1300	138.22	2,915.6	< 1	< 0.235	< 43.00	
	A-EFF						< 10			< 0.1			< 0.0016
10/9/96				176	173	4.5	732	96.31	3,011.9				
10/14/96				184.8	105	4.4	444	47.63	3,059.6				
10/21/96				176	89.2	4.5	378	46.58	3,106.1				
10/30/96				176	58.3	0.7	247	44.38	3,150.5				
11/6/96	System down, unable to restart due to reset failure												
1/17/97	Replaced Thermalcouple, restarted unit												
1/31/97	A-INF			44			< 10	0.55	3,151.1	0.14	0.008	< 43.01	
	A-EFF						< 10			< 0.05			< 0.0002
2/6/97	A-INF			176			86	2.84	3,153.9	2.2	0.069	< 43.08	
	A-EFF						< 10			< 0.10			< 0.0016
2/14/97				176	25	2	106	12.12	3,166.0				

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
2/18/97				176	95	0.8	402	16.05	3,182.1				
2/28/97				176	53	0	224	49.48	3,231.6				
3/5/97	A-INF			176			210	17.15	3,248.7	< 0.10	< 0.491	< 43.57	
	A-EFF						< 10			< 0.10			< 0.0016
3/12/97				211.2	62	0.7	262						
3/19/97				220	33	1	140						
3/26/97				211.2	35	1	148						
4/2/97	A-INF			220			170	94.55	3,343.3	4.0	< 1.020	< 44.59	
	A-EFF						< 10			< 0.10			< 0.0020
4/9/97				220	40	1	169						
4/16/97				220	58	3	245						
4/23/97				220	30	1	127						
4/30/97				220	30	2	127						
5/8/97	A-INF			193.6			340	170.41	3,513.7	4.8	2.940	< 47.53	
	A-EFF						< 10			< 0.10			< 0.0017
5/14/97				193.6	80	1	339						
5/21/97				193.6	20	1	85						
5/28/97				176	42	0	178						
6/4/97	A-INF			176			360	156.76	3,670.4	2.9	1.724	< 49.26	
	A-EFF						< 10			< 0.10			< 0.0016
6/11/97				176	40	0	169						
6/18/97				158.4	38	0	161						
6/25/97				167.2	36	0	152						
7/2/97	A-INF			167.2			350	153.11	3,823.5	5.4	1.790	< 51.04	
	A-EFF						< 10			< 0.10			< 0.0015
7/9/97				202.4	29.4	0	124						
7/18/97				246.4	14.7	0	62						
7/22/97				246.4	54.2	0	229						
7/30/97				220	36.1	0	153						
8/7/97	A-INF			220			160	159.53	3,983.1	< 0.50	< 1.846	< 52.89	
	A-EFF						13			< 0.10			< 0.0020
8/11/97				220	19.1	0	81						
8/20/97				167.2	13.1	0	55						
8/27/97				158.4	20.0	0	85						
9/3/97	A-INF			158.4			400	128.39	4,111.5	< 1.0	< 0.344	< 53.23	
	A-EFF						< 10			< 0.10			< 0.0014
9/10/97				123.2	800	4.0	3386						
9/17/97				158.4	131	1.1	554						
9/24/97				176	40	0	169						
10/8/97	A-INF			176			200	157.59	4,269.1	3.1	1.077	< 54.31	
	A-EFF						< 10			< 0.10			< 0.0016
10/15/97				193.6	50	0.9	212						
10/22/97				176	50	1.5	212						
10/30/97				158.4	30	0	127						
11/5/97				167.2	65	7.6	275						
11/12/97	A-INF			176			880	298.58	4,567.6	< 0.10	< 0.885	< 55.20	
	A-EFF						< 10			< 0.10			< 0.0016
11/20/97				158.4	33	3.2	138						
11/25/97				123.2	56	3.0	237						
12/3/97	A-INF			220			NA			NA	NA	NA	
	A-EFF						< 10			< 0.10			< 0.0020
12/10/97				176	19	0.5	80						

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
12/17/97				193.6	16	0.6	68						
12/23/97				193.6	13	0.0	55						
12/29/97	A-INF			176			51	345.64	4,913.3	< 0.10	< 0.074	< 55.27	
	A-EFF						< 10			< 0.10			< 0.0016
1/6/98	A-INF			176			70	7.65	4,920.9	2.1	< 0.139	< 55.41	
	A-EFF						< 10			< 0.1			< 0.0016
1/13/98				211.2	6	1.0	25						
1/20/98				184.8	4	1.3	17						
2/3/98	System down due to chart recorder problem												
2/10/98	Restart system												
2/10/98	A-INF			132			< 10	< 15.48	< 4,936.4	1.1	0.619	< 56.03	
	A-EFF						< 10			< 0.1			< 0.0012
2/18/98				132.15	0.5	0.0							
2/23/98				158.4	0.6	0.1							
3/11/98	A-INF			193.6			< 10	< 4.24	< 4,940.6	1.5	0.551	< 56.58	
	A-EFF						< 10			< 0.1			< 0.0017
3/17/98				167.2	1.6	3.4							
3/20/98	System down due to control fault												
3/23/98	Restart system												
3/23/98				176	6.2	1.9							
3/30/98				167.2	0.4	0.8							
4/7/98				176	1.4	1.1							
4/17/98				123.2	1.4	1.7							
4/21/98	A-INF			88			10	< 5.18	< 4,945.8	0.26	0.456	< 57.04	
	A-EFF						< 10			< 0.1			< 0.0008
4/28/98				88	2.3	1.6							
5/12/98	A-INF			88			< 10	< 1.66	< 4,947.5	< 0.1	< 0.032	< 57.07	
	A-EFF						< 10			< 0.1			< 0.0008
5/19/98				88	1.8	1.2							
5/28/98				88	1.7	1.2							
6/2/98	A-INF			88	4.3	2.1	18	< 2.32	< 4,949.8	< 0.1	< 0.017	< 57.08	
	A-EFF						< 10			< 0.1			< 0.0008
6/9/98				88	1.9	1.1							
6/17/98				96.8	1.7	0.9							
6/24/98				96.8	2.1	0.8							
7/8/98	A-INF			96.8	3.4	0.8	< 10	< 4.18	< 4,954.0	< 0.1	< 0.030	< 57.11	
	A-EFF						< 10			< 0.1			< 0.0009
7/14/98	A-INF			132	3.1	0.0	39	< 1.51	< 4,955.5	0.91	< 0.031	< 57.15	
	A-EFF						< 10			< 0.1			< 0.0012
7/14/98	Shut down vapor extraction system upon departure. One process blower not operating												
7/16/98	System Inspection, vapor extraction system still down.												
7/21/98	System down on arrival due to blown process blower fuse. Restarted system												
7/21/98				46.2	2.5	1.1							
7/27/98	System operated for 11 hours prior to samples being collected.												
7/27/98	A-INF			176	0.3	0.1	13	< 0.16	< 4,955.7	< 0.10	< 0.003	< 57.15	
	A-EFF						< 10			< 0.10			< 0.0016
8/5/98	System down on arrival due to cumbustion blower problems. System ran for one hour. Restarted system												
8/5/98	A-INF			184.8	4.1	0.0	90	0.02	< 4,955.7	2.50	< 0.001	< 57.15	
	A-EFF						< 10			< 0.1			< 0.0017
8/11/98	A-INF			193.6	2.7	0.3							

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
8/18/98	A-INF			202.4	3.1	0.3							
8/25/98				193.6	1.8	0.3							
9/3/98	System down upon arrival due to propane tank running empty. System operated for 16 days. Restarted system.												
9/3/98	A-INF			184.8	4.4	0.2	68	20.97	< 4,976.6	1.00	0.464	< 57.61	
	A-EFF						< 10			< 0.10			< 0.0017
9/8/98				202.4	1.8	0.2							
9/22/98	System down upon arrival due to low gas pressure control fault. Rest down 14 days												
9/22/98					2.7	0.3							
9/29/98				176	20.4	1.8							
10/6/98	A-INF			202.4	13.0	1.3	56	20.38	< 4,997.0	1.70	0.444	< 58.06	
	A-EFF						< 10			< 0.10			0.0018
	System down upon arrival due to propane tank running empty.System down for 115.5 hours.												
10/15/98				191.84	1.1	0.2							
10/20/98				193.6	78.6	0.3							
10/27/98				193.6	219.0	6.2							
11/4/98	A-INF			193.6	42.1	3.3	150	44.30	< 5,041.3	5.00	1.727	< 59.78	
	A-EFF						< 10			< 0.10			0.0017
11/12/98				184.8	32.4	3.7							
11/17/98				180.4	97.4	7.5							
11/17/98	System down upon arrival due to propane tank running empty.System down for 82 hours.												
12/2/98	System down upon arrival due to propane tank running empty. System down on departure.												
12/9/98	Restarted system												
12/9/98	A-INF			184.8	10.0	0.6	Bag flat						
	A-EFF						< 10			< 0.10			
12/16/98				184.8	8.5	0.0							
12/23/98	System down upon arrival due to propane tank running empty. System remained down												
1/6/99	Restarted system												
1/6/99	A-INF			281.6	61.6	2.8	63	< 47.70	< 5,089.0	0.15	< 1.153	< 60.94	
	A-EFF						< 10			< 0.1			< 0.0025
1/12/99	A-INF			264	2.8	0.0							
	A-EFF												
1/18/99	A-INF			220	100.8	6.4							
	A-EFF												
1/26/99	A-INF			184.8	32.0	5.6							
	A-EFF												
2/4/99	A-INF			176	12.5	6.7	< 50	< 33.65	< 5,122.7	< 0.5	< 0.076	< 61.01	
	A-EFF						< 50			< 0.5			< 0.0079
2/12/99	A-INF			132	15.2	0.8							
	A-EFF												
2/12/99	System down on departure, compound full with rain water.												
3/18/99	Pumped containment rain water into storage tank, restarted system.												
3/18/99	A-INF			246.4	16.2	0	< 10	< 4.55	< 5,127.2	< 0.5	< 0.076	< 61.09	
	A-EFF						< 10			< 0.5			< 0.0111
3/30/99	A-INF			132	11.5	0							
	A-EFF												
4/9/99	A-INF			154	2.4	0							
	A-EFF												
4/16/99	A-INF			140.8	0	0.9	< 10	< 5.04	< 5,132.3	< 0.1	< 0.151	< 61.24	
	A-EFF						< 10			< 0.1			< 0.0013
4/21/99	A-INF			123.2	5.5	0							
	A-EFF												
4/28/99	A-INF			123.2	10.1	0							

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
	A-EFF												
5/4/99	A-INF			132	0	0							
	A-EFF												
5/13/99	A-INF			176	1.3	0	< 10	< 3.84	5,136.1	< 0.1	< 0.038	< 61.28	
	A-EFF						< 10			< 0.1			< 0.0016
5/18/99	A-INF			176	1.3	0							
	A-EFF												
5/25/99	A-INF			167.2	0	0							
	A-EFF												
6/11/99	System down upon arrival, emergency stop button was activated.												
6/11/99	A-INF			167.2	4.9	4.5							
	A-EFF												
6/17/99	System operated for 24.3 day for removal calculations.												
6/17/99	A-INF			167.2	1.3	1	< 10	< 3.74	5,139.9	< 0.1	< 0.037	< 61.32	
	A-EFF						< 10			< 0.1			< 0.0015
6/17/99	System shut down for pulsing												
6/25/99	System restarted												
6/25/99	A-INF			176	3.3	0							
	A-EFF												
6/29/99	A-INF			176	2.9	0							
	A-EFF												

Notes:

A-INF	= Air Influent	HC	= Hydrocarbons measured as total purgeable petroleum hydrocarbons as gasoline analyized using EPA method 8015 (modified)
A-INT	= Air Intermediate	ug/l	= micrograms per liter
A-EFF	= Air Effluent	mg/cuM	= milligrams per cubic meter
NA	= Not Analyzed	lb	= pounds
cu. ft/min	= cubic feet per minute	acfm	= actual cubic feet per minute
ppmv	= parts per million by volume	<	= 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

				Analytical Data									
										TPHg Removed		Benzene Removed	
Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumulative [lb]	Per Period [lb]	Cumulative [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				

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

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
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				
			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				

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

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
			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												
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												

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Former Exxon Service Station 7-3006
720 High Street
Oakland, California

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
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				
			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												

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

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
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				

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

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
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				
			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				

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

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
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				
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											

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

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
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											

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	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
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				
			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.										

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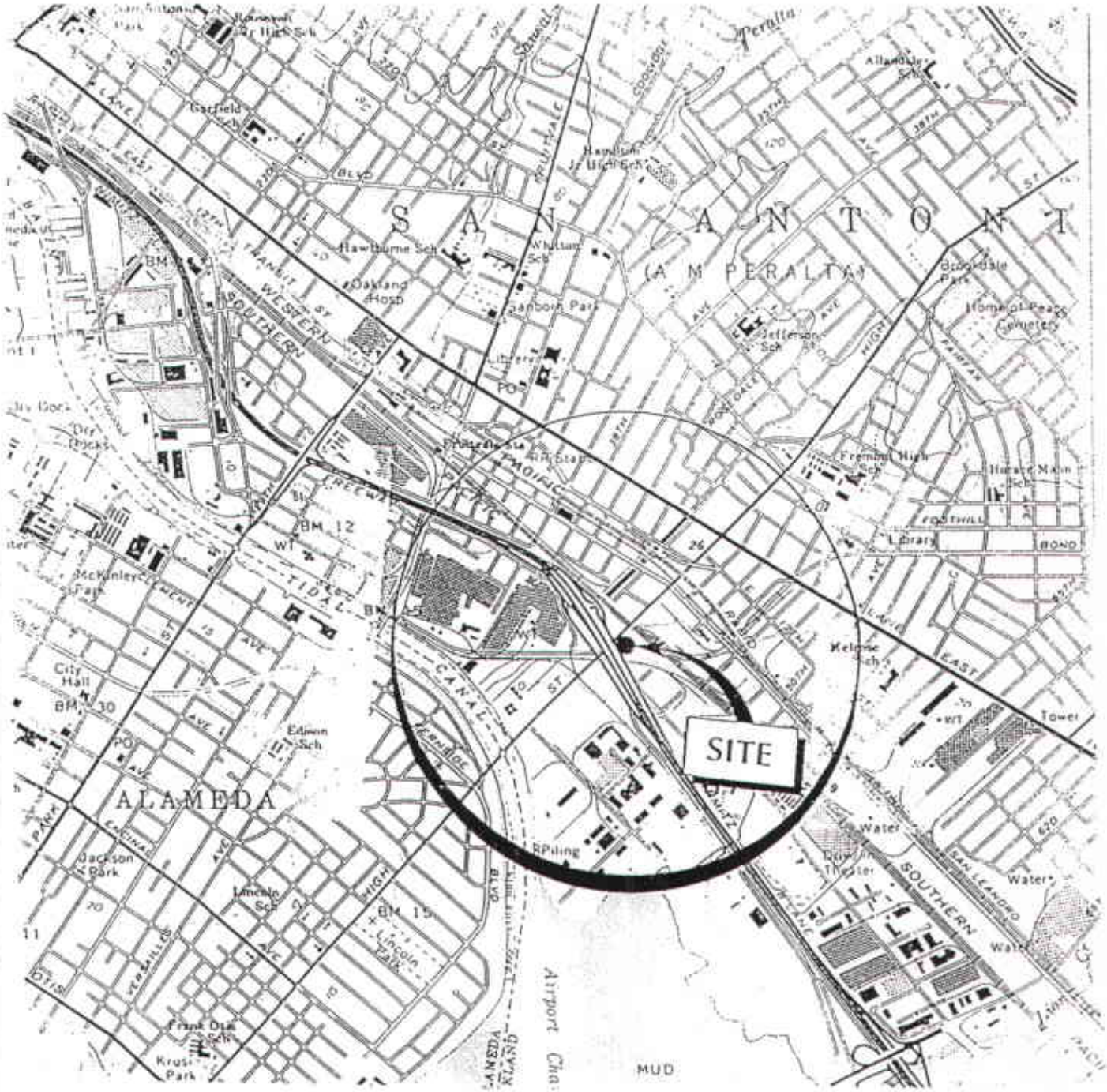
Former Exxon Service Station 7-3006
720 High Street
Oakland, California

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
6/9/98	635,740	140											
6/17/98	642,810	884											
6/24/98	645,760	421											
7/8/98	645,800	3											
7/14/98	649,980	697	W-INF1	2700	480	<25	92	270	NA	0.9046	10.1015	0.1556	2.5331
			W-INF2	NS	NS	NS	NS	NS	NS				
			W-INT	<50	<0.5	<0.5	<0.5	<0.5	NA				
			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
7/14/98	649,980	System down on departure											
7/16/98	System run manually for the East Bay Municipal Utility District Inspection, effluent split samples taken. System still down.												
7/16/98			W-EFF	<50	<0.5	<0.5	<0.5	<0.5	NA				
7/21/98	650,180	29											
7/27/98	655,260	847											
7/27/98	System shutdown until propane can be refilled to restart the Thermtech Vac 25.												
8/5/98	Restarted system												
8/5/98	655,260	0	W-INF1	510	240	4.7	3.5	27	NA	0.0707	10.1722	0.0159	2.5490
			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				
8/11/98	657,650	398											
8/18/98	662,740	727											
8/25/98	665,330	370											
9/3/98	System was down upon arrival due to low propane. System was restarted.												
9/3/98	667,700	263	W-INF1	400	110	<2.5	<2.5	9.4	NA	0.0472	10.2194	0.0182	2.5671
			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				
9/8/98	System down upon arrival due to a failed sump pump. System was restarted.												
9/8/98	669,720	404											

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

				Analytical Data									
	Total	Average	Sample							TPHg Removed		Benzene Removed	
Date	Flow	Flowrate	ID	TPHg	B	T	E	X	Arsenic	Per Period	Cumulative	Per Period	Cumulative
	[gal]	[gpd]		[ug/l]	[ug/l]	[ug/l]	[ug/l]	[ug/l]	[mg/l]	[lb]	[lb]	[lb]	[lb]
1/6/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
1/12/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
1/18/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
1/26/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
2/4/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
2/12/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
3/18/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
3/30/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
4/9/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
4/16/99	702,994		System down on departure, pending a permit renewal from EBMUD.										
5/4/99	702,994		System down for the month of May. No Permit renewal from EBMUD.										
6/11/99	702,994		System down for the month of June. No Permit renewal from EBMUD.										

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	= water intermediate samples	E	= Ethylbenzene		
W-EFF	= water effluent samples	X	= Total Xylenes		
TPPHg	= Total purgeable petroleum hydrocarbons as gasoline	<	= less than the laboratory method detection limit as indicated		
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

ENVIRONMENTAL RESOLUTIONS, INC.

PROJECT ERI 2010

SITE VICINITY MAP

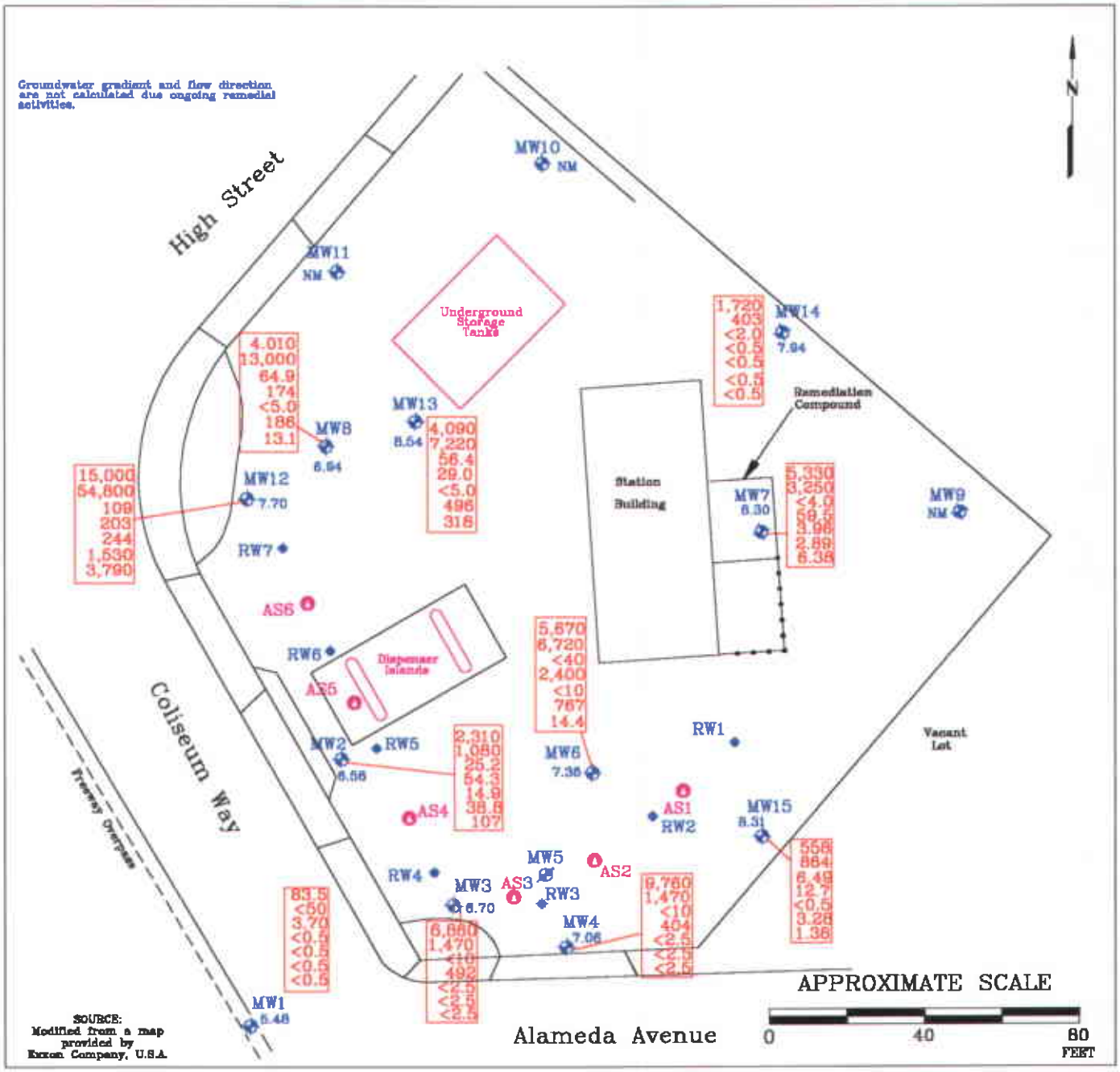
FORMER EXXON SERVICE STATION 7-3006

720 High Street

Oakland, California

PLATE

1



FN 20100002

EXPLANATION

- MW15 — Groundwater Monitoring Well
- 8.31 — Groundwater Elevation in feet above mean sea level
- MW5 — Groundwater Monitoring Well (Destroyed)
- RW7 — Recovery Monitoring Well
- AS6 — Air-Sparging/Vapor-Extraction Well

Groundwater Concentrations in ug/L
Sampled June 22, 1999

15,000	Total Extractable Petroleum Hydrocarbons as diesel
54,800	Total Purgeable Petroleum Hydrocarbons as gasoline
109	Methyl Tertiary Butyl Ether
203	Benzene
244	Toluene
1,530	Ethylbenzene
3,790	Total Xylenes
<	Less Than the Stated Laboratory Detection Limit
ug/L	Micrograms per Liter
NA	Not Analyzed
NM	Not Measured

ENVIRONMENTAL RESOLUTIONS, INC.

GENERALIZED SITE PLAN

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

PROJECT NO. 2010

PLATE 2

July 28, 1999

ATTACHMENT A

GROUNDWATER SAMPLING PROTOCOL

BLAINE TECH SERVICES, INC.
METHODS AND PROCEDURES
FOR THE ROUTINE MONITORING OF
GROUNDWATER WELLS AT EXXON STATIONS

Blaine Tech Services, Inc. performs environmental sampling and documentation as an independent third party. We specialize in groundwater monitoring assignments and intentionally limit the scope of our services to those centered on the generation of objective information.

To avoid conflicts of interest, Blaine Tech Services, Inc. personnel do not evaluate or interpret the information we collect. As a state licensed contractor (C-57 well drilling –water – 746684) performing strictly technical services, we do not make any professional recommendations and perform no consulting of any kind.

SAMPLING PROCEDURES OVERVIEW

SAFETY

All groundwater monitoring assignments performed for Exxon comply with Exxon's safety guidelines, 29 CFR 1910.120 and SB-198 Injury and Illness Prevention Program (IIPP). All Field Technicians receive the full 40 hour 29CFR 1910.120 OSHA SARA HAZWOPER course, medical clearance and on-the-job training prior to commencing any work on any Exxon site.

INSPECTION AND GAUGING

Wells are inspected prior to evacuation and sampling. The condition of the wellhead is checked and noted according to a wellhead inspection checklist.

Standard measurements include the depth to water (DTW) and the total well depth (TD) obtained with industry standard electronic sounders which are graduated in increments of hundredths of a foot.

The water in each well is inspected for the presence of Immiscibles or sheen and when free product is suspected, it is confirmed using an electronic interface probe (e.g. MMC). If sheen or product is found in a well, the Project Coordinator notifies the appropriate party (e.g. Exxon employee or consultant).

No samples are collected from a well containing sheen or product.

EVACUATION

Depth to water measurements are collected by our personnel prior to purging and minimum purge volumes are calculated anew for each well based on the height of the water column and the diameter of the well. Expected purge volumes are never less than three case volumes and

are set at no less than four case volumes in some jurisdictions.

Well purging devices are selected on the basis of the well diameter and the total volume to be evacuated. In most cases the well will be purged using an electric submersible pump (i.e. Grundfos) suspended near (but not touching) the bottom of the well. Small volumes of purgewater are often removed by hand bailing with a disposable bailer.

PARAMETER STABILIZATION

Well purging completion standards include minimum purge volumes, but additionally require stabilization of specific groundwater parameters prior to sample collection. Typical groundwater parameters used to measure stability are electrical conductivity, pH, and temperature. Instrument readings are obtained at regular intervals during the evacuation process (no less than once per case volume).

Stabilization standards for routine quarterly monitoring of fuel sites include the following: Temperature is considered to have stabilized when successive readings do not fluctuate more than +/- 1 degree Celsius. Electrical conductivity is considered stable when successive readings are within 10%. pH is considered to be stable when successive readings remain constant or vary no more than 0.2 of a pH unit.

DEWATERED WELLS

Normal evacuation removes no less than three case volumes of water from the well. However, less water may be removed in cases where the well dewaters and does not recharge.

Wells known to dewater are evacuated as early as possible during each site visit in order to allow for the greatest amount of recovering. Any well that does not recharge to 80% of its original volume will be sampled prior to the departure of our personnel from the site in order to eliminate the need of a return visit.

In jurisdictions where a certain percentage of recovery is included in the local completion standard, our personnel follow the regulatory expectation.

PURGEWATER CONTAINMENT

All non-hazardous purgewater evacuated from each groundwater monitoring well is captured and contained in on-board storage tanks on the Sampling Vehicle and/or special water hauling trailers. Effluent from the decontamination of reusable apparatus (sounders, electric pumps and hoses etc.), consisting of groundwater combined with deionized water and non-phosphate soap, is also captured and pumped into effluent tanks.

Non hazardous purgewater is transported under standard Bill of Lading documentation to a Blaine Tech Services, Inc. facility before being transported to an Exxon approved disposal facility (e.g. Romic Environmental Technologies Corporation in East Palo Alto, California).

SAMPLE COLLECTION DEVICES

All samples are collected using a disposable bailer.

SAMPLE CONTAINERS

Sample material is decanted directly from the sampling bailer into sample containers provided by the laboratory which will analyze the samples. The transfer of sample material from the bailer to the sample container conforms to specifications contained in the USEPA T.E.G.D. The type of sample container, material of construction, method of closure and filling requirements are specific to the intended analysis. Chemicals needed to preserve the sample material are commonly placed inside the sample containers by the laboratory or glassware vendor prior to delivery of the bottle to our personnel. The laboratory sets the number of replicate containers.

TRIP BLANKS

A Trip Blank is carried to each site and is kept inside the cooler for the duration of the sampling event. It is turned over to the laboratory for analysis with the samples from that site.

SAMPLE STORAGE

All sample containers are promptly placed in food grade ice chests for storage in the field and transport (direct or via our facility) to the analytical laboratory that will perform the intended analytical procedures. These ice chests contain quantities of restaurant grade ice as a refrigerant material. The samples are maintained in either an ice chest or a refrigerator until relinquished into the custody of the laboratory or laboratory courier.

DOCUMENTATION CONVENTIONS

Each and every sample container has a label affixed to it. In most cases these labels are generated by our office personnel and are partially preprinted. Labels can also be hand written by our field personnel. The site is identified with the station number and site address, as is the particular groundwater well from which the sample is drawn (e.g. MW-1, MW-2, S-1 etc.). The time at which the sample was collected and the initials of the person collecting the sample are handwritten onto the label.

Chain of Custody records are created using client specific preprinted forms following USEPA specifications.

Bill of Lading records are contemporaneous records created in the field at the site where the non-hazardous purgewater is generated. Field Technicians use preprinted Bill of Lading forms.

DECONTAMINATION

All equipment is brought to the site in clean and serviceable condition and is cleaned after use in each well and before subsequent use in any other well. Equipment is decontaminated before

leaving the site.

The primary decontamination device is a commercial steam cleaner. The steam cleaner is de-tuned to function as a hot pressure washer which is then operated with high quality deionized water which is produced at our facility and stored onboard our sampling vehicle. Cleaning is facilitated by the use of proprietary fixtures and devices included in the patented workstation (U.S. Patent 5,535,775) that is incorporated in each sampling vehicle. The steam cleaner is used to decon reels, pumps and bailers.

Any sensitive equipment or parts (i.e. Dissolved Oxygen sensor membrane, sounder etc.) that cannot be washed using the hot high pressure water, will be sprayed with a non-phosphate soap and deionized water solution and rinsed with deionized water.

EXAMPLE: The sounder is cleaned between wells using the non-phosphate soap and deionized water solution followed by deionized water rinses. The sounder is then washed with the steam cleaner between sites or as necessitated by use in a particularly contaminated well.

DISSOLVED OXYGEN READINGS

All Dissolved Oxygen readings are taken using YSI meters (e.g. YSI Model 58 or equivalent YSI meter). These meters are equipped with a YSI stirring device that enables them to collect accurate in-situ readings. The probe/stirring devices are modified to allow downhole measurements to be taken from wells as small as two-inch diameter.

The probe and reel is decontaminated between wells as described above. The meter is calibrated between wells as per the instructions in the operating manual. The probe and stirrer is lowered into the water column allowed to stabilize before use.

OXYIDATON REDUCTION POTENTIAL READINGS

All readings are obtained with either Corning or Myron-L meters (e.g. Corning ORP-65 or a Myron-L Ultrameter GP). The meter is cleaned between wells as described above. The meter is calibrated at the start of each day according to the instruction manual. In use the probe is placed in a cup of freshly obtained monitoring well water and allowed to stabilize.

ATTACHMENT B

LABORATORY ANALYSIS REPORTS AND CHAIN OF CUSTODY RECORDS

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

[E]nvironmental Resolutions (Exxon)	Project: Exxon	Sampled: 6/22/99
[7]5 Digital Drive, Suite 100	Project Number: 7-3006	Received: 6/23/99
Novato, CA 94949	Project Manager: Peter Petro	Reported: 7/15/99

ANALYTICAL REPORT FOR M906657

[S]ample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1	M906657-01	Water	6/22/99
[M]W-2	M906657-02	Water	6/22/99
MW-3	M906657-03	Water	6/22/99
[M]W-4	M906657-04	Water	6/22/99
[M]W-6	M906657-05	Water	6/22/99
MW-7	M906657-06	Water	6/22/99
[M]W-8	M906657-07	Water	6/22/99
MW-12	M906657-08	Water	6/22/99
[M]W-13	M906657-09	Water	6/22/99
MW-14	M906657-10	Water	6/22/99
[M]W-15	M906657-11	Water	6/22/99
TB	M906657-12	Water	6/22/99

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

nvironmental Resolutions (Exxon)	Project:	Exxon	Sampled: 6/22/99
75 Digital Drive, Suite 100	Project Number:	7-3006	Received: 6/23/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 7/15/99

Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W-1			**M906657-01**				**Water**	
iesel Range Hydrocarbons	9060507	6/29/99	7/9/99		0.0500	**0.0835**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*102*	%	
W-2			**M906657-02**				**Water**	
iesel Range Hydrocarbons	9060507	6/29/99	7/9/99		0.0500	**2.31**	mg/l	2
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*113*	%	
W-3			**M906657-03**				**Water**	
Diesel Range Hydrocarbons	9060507	6/29/99	7/10/99		0.250	**6.86**	mg/l	3
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*123*	%	
W-4			**M906657-04**				**Water**	
Diesel Range Hydrocarbons	9060507	6/29/99	7/10/99		0.500	**9.76**	mg/l	4
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*134*	%	
MW-6			**M906657-05**				**Water**	
Diesel Range Hydrocarbons	9060507	6/29/99	7/10/99		0.200	**5.67**	mg/l	1
rrogate: n-Pentacosane	"	"	"	*50.0-150*		*113*	%	
MW-7			**M906657-06**				**Water**	
Diesel Range Hydrocarbons	9060507	6/29/99	7/10/99		0.200	**5.33**	mg/l	1
rrogate: n-Pentacosane	"	"	"	*50.0-150*		*115*	%	
MW-8			**M906657-07**				**Water**	
iesel Range Hydrocarbons	9060507	6/29/99	7/10/99		0.100	**4.01**	mg/l	1
rrogate: n-Pentacosane	"	"	"	*50.0-150*		*113*	%	
MW-12			**M906657-08**				**Water**	
iesel Range Hydrocarbons	9060507	6/29/99	7/10/99		0.500	**15.0**	mg/l	1
rrogate: n-Pentacosane	"	"	"	*50.0-150*		*107*	%	
MW-13			**M906657-09**				**Water**	
iesel Range Hydrocarbons	9060507	6/29/99	7/10/99		0.100	**4.09**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*108*	%	
W-14			**M906657-10**				**Water**	
iesel Range Hydrocarbons	9060507	6/29/99	7/9/99		0.0500	**1.72**	mg/l	1
Surrogate: n-Pentacosane	"	"	"	*50.0-150*		*111*	%	
W-15			**M906657-11**				**Water**	
Diesel Range Hydrocarbons	9060507	6/29/99	7/9/99		0.0500	**0.558**	mg/l	1

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
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vironmental Resolutions (Exxon)	Project:	Exxon	Sampled: 6/22/99
73 Digital Drive, Suite 100	Project Number:	7-3006	Received: 6/23/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 7/15/99

Diesel Hydrocarbons (C9-C24) by DHS LUFT
Sequoia Analytical - Morgan Hill

Analyte	Batch Number	Date Prepared	Date Analyzed	Surrogate Limits	Reporting Limit	Result	Units	Notes*
W-15 (continued)			**M906657-11**				**Water**	
rrogate: n-Pentacosane	*9060507*	*6/29/99*	*7/9/99*	*50.0-150*		*95.0*	*%*	

Sequoia Analytical

885 Jarvis Drive
Morgan Hill, CA 95037
(408) 776-9600
FAX (408) 782-6308

Environmental Resolutions (Exxon)	Project:	Exxon	Sampled: 6/22/99
73 Digital Drive, Suite 100	Project Number:	7-3006	Received: 6/23/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 7/15/99

Diesel Hydrocarbons (C9-C24) by DHS LUFT (Quality Control)
Sequoia Analytical - Morgan Hill

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060507	**Date Prepared: 6/29/99**					**Extraction Method: EPA 3520B**				
Blank	**9060507-BLK1**									
Diesel Range Hydrocarbons	7/9/99			**0.0951**	mg/l	**0.0500**				5
Surrogate: n-Pentacosane	"	*0.100*		*0.100*	"	*50.0-150*	*100*			
LCS Dup	**9060507-BSD1**									
Diesel Range Hydrocarbons	7/9/99	1.00		1.03	mg/l	60.0-140	103	50.0		6
Surrogate: n-Pentacosane	"	*0.100*		*0.104*	"	*50.0-150*	*104*			

Sequoia Analytical

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Morgan Hill, CA 95037
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FAX (408) 782-6308

nvironmental Resolutions (Exxon)	Project:	Exxon	Sampled: 6/22/99
73 Digital Drive, Suite 100	Project Number:	7-3006	Received: 6/23/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 7/15/99

Notes and Definitions

	Note
1	Chromatogram Pattern: Unidentified Hydrocarbons C9-C24
	Chromatogram Pattern: Weathered Diesel C9-C24 + Unidentified Hydrocarbons C9-C24
3	Chromatogram Pattern: Weathered Diesel C9-24 + Unidentified Hydrocarbons [C15-C24]
	Chromatogram Pattern: Weathered Diesel C9-C24
	MB is sightly contaminated, use sample M906785-04 for batch validation.
6	LCS was lost in extractions use the LCSD fo batch validation.
ET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
R	Not Reported
dry	Sample results reported on a dry weight basis
ecov.	Recovery
RPD	Relative Percent Difference

Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

Consultant's Name: ERI / Exxon

Page 1 of 2

Address: 74 Digital Dr, Suite 6, Novato, CA 94949

Project #: 20103	Consultant Project #: 990622-01	Site Location: 720 High St, Oakland
Project Contact: Peter Petro	Phone #:	Consultant Work Release #:
EXXON Contact: Marla Guensler	Phone #: (925) 246-8776	Laboratory Work Release #: 19432503
Sampled by (print): Layne Rom	Sampler's Signature:	EXXON RAS #: 7-3006
Shipment Method:	Air Bill #:	M906657

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

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	HCl Vocs Prsv Amber NP	# 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
MW-1	6-22-99	11:10	water	X	5		X	X		X		
MW-2	"	11:56	"	X	5		X	X		X		
MW-3	"	14:25	"	X	5		X	X		X		
MW-4	"	13:26	"	X	5		X	X		X		
MW-6	"	15:22	"	X	5		X	X		X		
MW-7	"	13:53	"	X	5		X	X		X		
MW-8	"	15:54	"	X	5		X	X		X		
MW-12	"	16:15	"	X	5		X	X		X		
MW-#13	"	14:57	"	X	5		X	X		X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
/ BTS	6/23/99	9:22		6/23/99	922	
	6/23/99			6/23/99	1445	

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY, U.S.A.

P.O. Box 2180, Houston, TX 77002-7428

CHAIN OF CUSTODY

Consultant's Name: ERI / Exxon — Page 2 of 2

Address: 74 Digital Dr, Suite 6, Novato, CA 94949

Site Location: 720 High St. Oakland

Project #: 20103 — Consultant Project #: 990622-01

Project Contact: Peter Petro — Phone #:

Consultant Work Release #:

EXXON Contact: Marla Guensler — Phone #: (925) 246-8776

Laboratory Work Release #: 19432503

Sampled by (print): Layne Lor — Sampler's Signature: Layne L

EXXON RAS #: 7-3006

Shipment Method: — Air Bill #:

M906657

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

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Preservation: HCl Vows / Amber NP	# of Cont.	Sequoia's Sample #	ANALYSIS REQUIRED: TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520	MTBE (8020)		Temperature: / Inbound Seal: Yes No / Outbound Seal: Yes No
MW-M	6-22-99	11:35	water	X	5		X	X		X		
MW-I 15	" "	13:04	"	X	5		X	X		X		
TB	6-22-99	N/A	"				X			X		

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Layne / BTS	6/23/99	9:22		6/23/99	922	
	6/23/99	135				

White - Sequoia Yellow - Sample Pink - Client

Sequoia Analytical

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

July 9, 1999

Ron Chew
Sequoia Analytical - Morgan Hill
885 Jarvis Drive
Morgan Hill, CA 95037

RE: Ron Chew/P907027

Dear Ron Chew:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 23, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number I-2374

Sequoia Analytical

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

equoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
35 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

ANALYTICAL REPORT FOR P907027

ample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
MW-1/M906657-01	P907027-01	Water	6/22/99
W-2/M906657-02	P907027-02	Water	6/22/99
MW-3/M906657-03	P907027-03	Water	6/22/99
W-4/M906657-04	P907027-04	Water	6/22/99
MW-6/M906657-05	P907027-05	Water	6/22/99
W-7/M906657-06	P907027-06	Water	6/22/99
W-8/M906657-07	P907027-07	Water	6/22/99
MW-12/M906657-08	P907027-08	Water	6/22/99
W-13/M906657-09	P907027-09	Water	6/22/99
MW-14/M906657-10	P907027-10	Water	6/22/99
W-15/M906657-11	P907027-11	Water	6/22/99
TB/M906657-12	P907027-12	Water	6/22/99

Sequoia Analytical

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

equoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
35 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

ample Description: **MW-1/M906657-01**
aboratory Sample Number: **P907027-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
otal Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
asoline	9070067	7/3/99	7/3/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
oluene	"	"	"		0.500	ND	"	
hylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	**3.70**	"	
rrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*111*	*%*	
rrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*90.0*	"	

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equoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
85 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

ample Description: **MW-2/M906657-02**
Laboratory Sample Number: **P907027-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
otal Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9070067	7/3/99	7/3/99		50.0	**1080**	ug/l	
Benzene	"	"	"		0.500	**54.3**	"	
oluene	"	"	"		0.500	**14.9**	"	
thylbenzene	"	"	"		0.500	**38.8**	"	
Xylenes (total)	"	"	"		0.500	**107**	"	
Methyl tert-butyl ether	"	"	"		2.00	**25.2**	"	
urrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*110*	%	
urrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*99.0*	"	

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
885 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Sample Description: **MW-3/M906657-03**
Laboratory Sample Number: **P907027-03**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9070067	7/3/99	7/3/99		250	**1470**	ug/l	
Benzene	"	"	"		2.50	**492**	"	
Toluene	"	"	"		2.50	ND	"	
Ethylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*102*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*97.0*	"	

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equoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
35 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

ample Description: **MW-4/M906657-04**
aboratory Sample Number: **P907027-04**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - Petaluma					
otal Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
asoline	9070067	7/3/99	7/3/99		250	**1470**	ug/l	
Benzene	"	"	"		2.50	**404**	"	
oluene	"	"	"		2.50	ND	"	
hylbenzene	"	"	"		2.50	ND	"	
Xylenes (total)	"	"	"		2.50	ND	"	
Methyl tert-butyl ether	"	"	"		10.0	ND	"	
rrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*108*	*%*	
rrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*99.7*	"	

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
85 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Sample Description: **MW-6/M906657-05**
Laboratory Sample Number: **P907027-05**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9070067	7/3/99	7/3/99		1000	**6720**	ug/l	
Benzene	"	"	"		10.0	**2400**	"	
Toluene	"	"	"		10.0	ND	"	
Ethylbenzene	"	"	"		10.0	**767**	"	
Xylenes (total)	"	"	"		10.0	**14.4**	"	
Methyl tert-butyl ether	"	"	"		40.0	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*111*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.3*	"	

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
885 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Sample Description: **MW-7/M906657-06**
Laboratory Sample Number: **P907027-06**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9070067	7/3/99	7/3/99		100	**3250**	ug/l	
Benzene	"	"	"		1.00	**59.5**	"	
Toluene	"	"	"		1.00	**3.96**	"	
Ethylbenzene	"	"	"		1.00	**2.89**	"	
Xylenes (total)	"	"	"		1.00	**6.38**	"	
Methyl tert-butyl ether	"	"	"		4.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*112*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*112*	"	

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
85 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Sample Description: **MW-8/M906657-07**
Laboratory Sample Number: **P907027-07**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9070067	7/3/99	7/3/99		500	**13000**	ug/l	
Benzene	"	"	"		5.00	**174**	"	
Toluene	"	"	"		5.00	ND	"	
Ethylbenzene	"	"	"		5.00	**186**	"	
Xylenes (total)	"	"	"		5.00	**13.1**	"	
Methyl tert-butyl ether	"	"	"		20.0	**64.9**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*110*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*102*	"	

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
885 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Sample Description: **MW-12/M906657-08**
Laboratory Sample Number: **P907027-08**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								1
Gasoline	9070067	7/3/99	7/3/99		500	**54800**	ug/l	
Benzene	"	"	"		5.00	**203**	"	
Toluene	"	"	"		5.00	**244**	"	
Ethylbenzene	"	"	"		5.00	**1530**	"	
Xylenes (total)	"	"	"		5.00	**3790**	"	
Methyl tert-butyl ether	"	"	"		20.0	**109**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*103*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*109*	"	

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equoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
85 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

ample Description: **MW-13/M906657-09**
aboratory Sample Number: **P907027-09**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - Petaluma					
otal Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
asoline	9070067	7/3/99	7/3/99		500	**7220**	ug/l	
Benzene	"	"	"		5.00	**29.0**	"	
oluene	"	"	"		5.00	ND	"	
thylbenzene	"	"	"		5.00	**496**	"	
Xylenes (total)	"	"	"		5.00	**318**	"	
Methyl tert-butyl ether	"	"	"		20.0	**56.4**	"	
urrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*110*	*%*	
urrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*97.0*	"	

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equoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
85 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

ample Description: **MW-14/M906657-10**
aboratory Sample Number: **P907027-10**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
			Sequoia Analytical - Petaluma					
otal Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
asoline	9070067	7/3/99	7/3/99		50.0	**403**	ug/l	
Benzene	"	"	"		0.500	ND	"	
oluene	"	"	"		0.500	ND	"	
thylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
urrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*109*	*%*	
urrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.7*	"	

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
85 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Sample Description: **MW-15/M906657-11**
Laboratory Sample Number: **P907027-11**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9070067	7/3/99	7/3/99		50.0	**864**	ug/l	
Benzene	"	"	"		0.500	**12.7**	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	**3.28**	"	
Xylenes (total)	"	"	"		0.500	**1.38**	"	
Methyl tert-butyl ether	"	"	"		2.00	**6.49**	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*104*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*100*	"	

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
885 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Sample Description: **TB/M906657-12**
Laboratory Sample Number: **P907027-12**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9070067	7/3/99	7/3/99		50.0	ND	ug/l	
Benzene	"	"	"		0.500	ND	"	
Toluene	"	"	"		0.500	ND	"	
Ethylbenzene	"	"	"		0.500	ND	"	
Xylenes (total)	"	"	"		0.500	ND	"	
Methyl tert-butyl ether	"	"	"		2.00	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*109*	*%*	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*95.7*	"	

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
885 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9070067	**Date Prepared: 7/3/99**					**Extraction Method: EPA 5030 waters**				
Blank	**9070067-BLK1**									
Gasoline	7/3/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Methyl tert-butyl ether	"			**ND**	"	**2.00**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*327*	"	*65.0-135*	*109*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*302*	"	*65.0-135*	*101*			
LCS	**9070067-BS1**									
Gasoline	7/3/99	1000		1010	ug/l	65.0-135	101			
Surrogate: 4-Bromofluorobenzene	"	*300*		*296*	"	*65.0-135*	*98.7*			
Matrix Spike	**9070067-MS1**		**P907027-01**							
Gasoline	7/6/99	1000	ND	878	ug/l	65.0-135	**87.8**			
Surrogate: 4-Bromofluorobenzene	"	*300*		*295*	"	*65.0-135*	*98.3*			
Matrix Spike Dup	**9070067-MSD1**		**P907027-01**							
Gasoline	7/3/99	1000	ND	929	ug/l	65.0-135	**92.9**	20.0	5.64	
Surrogate: 4-Bromofluorobenzene	"	*300*		*289*	"	*65.0-135*	*96.3*			

Sequoia Analytical

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Sequoia Analytical - Morgan Hill	Project:	Ron Chew	Sampled: 6/22/99
85 Jarvis Drive	Project Number:	M906657	Received: 6/23/99
Morgan Hill, CA 95037	Project Manager:	Ron Chew	Reported: 7/9/99

Notes and Definitions

Note	
1	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

P907027

Sequoia Analytical - Morgan Hill Subcontract Order
M906657

Sending Laboratory	Receiving Laboratory
equoia Analytical - Morgan Hill 885 Jarvis Drive Morgan Hill, CA 95037 Phone: 408-776-9600 Fax: 408-782-6308 roject Manager: Ron Chew	Sequoia Analytical - Petaluma 1455 N. McDowell Blvd Ste D Petaluma, CA 94954 Phone: 707-792-1865 Fax: 707-792-0342

Subcontract Order Comments

/23/99 14:00

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐
COOLER TEMPERATURE 5 °C

Sample/Analysis Information

Sample Name	Matrix	Sampled/ Expires	Analysis Requested	Due	Lab Number	Container	Comments
M906657-01	Water	6/22/99			P907027-01	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
M906657-02	Water	6/22/99			-02	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
906657-03	Water	6/22/99			-03	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
906657-04	Water	6/22/99			04	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
906657-05	Water	6/22/99			-05	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
M906657-06	Water	6/22/99			-06	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
M906657-07	Water	6/22/99			-07	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
906657-08	Water	6/22/99			-08	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
906657-09	Water	6/22/99			-09	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
906657-10	Water	6/22/99			-10	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
906657-11	Water	6/22/99			-11	C, D, E	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA
M906657-12	Water	6/22/99			-12	A, B	
		7/6/99	TPH-G/B/M	7/8/99			SUBOUT TO PETALUMA

Released By _____ Date _____ Received By _____ Date _____

Released By _____ Date _____ Received By _____ Date 14:20 7/1/99

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
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Environmental Resolutions
73 Digital Drive, Suite 100
ovato, CA 94949
ttention: Peter Petro

Client Proj. ID: Exxon 7-3006, 201011X

Lab Proj. ID: 9904571

Received: 04/16/99

Reported: 04/22/99

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

kie Tague Clark
ject Manager

Sequoia Analytical

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Environmental Resolutions
73 Digital Drive, Suite 100
Novato, CA 94949

Attention: Peter Petro

Client Proj. ID: Exxon 7-3006, 201011X
Sample Descript: A-Inf
Matrix: AIR
Analysis Method: 8015Mod/8020
Lab Number: 9904571-01

Sampled: 04/16/99
Received: 04/16/99

Analyzed: 04/19/99
Reported: 04/22/99

QC Batch Number: GC041999BTEX02A
Instrument ID: GCHP02

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	88

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

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
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
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Environmental Resolutions	Client Proj. ID: Exxon 7-3006, 201011X	Sampled: 04/16/99
73 Digital Drive, Suite 100	Sample Descript: A-Eff	Received: 04/16/99
ovato, CA 94949	Matrix: AIR	
	Analysis Method: 8015Mod/8020	Analyzed: 04/19/99
Attention: Peter Petro	Lab Number: 9904571-02	Reported: 04/22/99

Batch Number: GC041999BTEX02A
trument ID: GCHP02

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

nalyte	Detection Limit ug/L	Sample Results ug/L
PPH as Gas	10	N.D.
enzene	0.10	N.D.
oluene	0.10	N.D.
Ethyl Benzene	0.10	N.D.
ylenes (Total)	0.10	N.D.
hromatogram Pattern:		

Surrogates	Control Limits %		% Recovery
ifluorotoluene	70	130	88

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

SEQUOIA ANALYTICAL - ELAP #1210

Vickie Tague Clark
Project Manager

Sequoia Analytical

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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
1551 Industrial Road, San Carlos, CA 94070-4111, (650) 232-9600, FAX (650) 232-9612

Environmental Resolutions
73 Digital Drive, Suite 100
Novato, CA 94949
Attention: Peter Petro

Client Project ID: Exxon 7-3006, 201011x

QC Sample Group: 9904571

Reported: Apr 22, 1999

QUALITY CONTROL DATA REPORT

Matrix:	Liquid			
Method:	EPA 8020			
Analyst:	JAB			
ANALYTE	Benzene	Toluene	Ethylbenzene	Xylenes
QC Batch #:	GC041999BTEX02A			
Sample No.:	GW9904491-3			
Date Prepared:	4/19/99	4/19/99	4/19/99	4/19/99
Date Analyzed:	4/19/99	4/19/99	4/19/99	4/19/99
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:	8.1	8.2	8.4	24
% Recovery:	81	82	84	80
Matrix pike Duplicate, ug/L:	8.7	8.6	8.6	26
% Recovery:	87	86	86	87
elative % Difference:	7.1	4.8	2.4	8.4
RPD Control Limits:	0-25	0-25	0-25	0-25

LCS Batch#:	GC041999BTEX02A			
Date Prepared:	4/19/99	4/19/99	4/19/99	4/19/99
Date Analyzed:	4/19/99	4/19/99	4/19/99	4/19/99
Instrument I.D.#:	GCHP02	GCHP02	GCHP02	GCHP02
Conc. Spiked, ug/L:	10	10	10	30
LCS Recovery, ug/L:	9.1	9.1	9.1	27
LCS % Recovery:	91	91	91	90

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

Ronald M. Chew
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
(650) 364-9600 • FAX (650) 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 1
Address: 73 Digital Drive #100 Novato Ca 94949			**Site Location:** 720 High St.
Project #:	**Consultant Project #:** 2010 CLR		**Consultant Work Release #:** 19932503
Project Contact: Peter Petro	**Phone #:** (415) 382-9105		**Laboratory Work Release #:**
EXXON Contact: Marla Guenzler	**Phone #:** (925) 246-8776		**EXXON RAS #:** 7-3006
Sampled by (print): Jack Dyer	**Sampler's Signature:** Jack Dyer		Oakland, Ca.
Shipment Method:	**Air Bill #:**		

TAT: ☐ 24 hr ☐ 48 hr ☐ 72 hr ☐ 96 hr ☒ ~~Standard~~ (10 day) 9904571

Sample Description	Collection Date	Collection Time	Matrix Soil/Water/Air	Prsv	# of Cont.	Sequoia's Sample #	ANALYSIS REQUIRED: TPH/Gas BTEX/ 8015/ 8020	TPH/ Diesel EPA 8015	TRPH S.M. 5520			Temperature:_____ Inbound Seal: Yes No Outbound Seal: Yes No
A Inf	2/16/99	12:15	Air		1	01	X					
A-Eff	2/16/99	12:14	Air		1	02	X					

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Jack Dyer / ERT						
			Chris Dean / Sequoia	4/16/99	1340	

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical

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

May 17, 1999

Peter Petro
ERI
73 Digital Dr. Suite 6
Novato, CA 94949

RE: Exxon/P905279

Dear Peter Petro:

Enclosed are the results of analyses for sample(s) received by the laboratory on May 13, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number 2245

Sequoia Analytical

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

[redacted]	Project:	Exxon	Sampled: 5/13/99
75 Digital Dr. Suite 6	Project Number:	201011X/7-3006	Received: 5/13/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 5/17/99

ANALYTICAL REPORT FOR P905279

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
A-INF	P905279-01	Air	5/13/99
A[redacted]ff	P905279-02	Air	5/13/99

Sequoia Analytical

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

[redacted]	Project:	Exxon	Sampled: 5/13/99
[redacted] Digital Dr. Suite 6	Project Number:	201011X/7-3006	Received: 5/13/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 5/17/99

[redacted]mple Description: **A-INF**
Laboratory Sample Number: **P905279-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
[redacted]al Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9050346	5/13/99	5/13/99		10.0	ND	ug/l	
Benzene	"	"	"		0.100	ND	"	
[redacted]uene	"	"	"		0.100	ND	"	
[redacted]ylbenzene	"	"	"		0.100	ND	"	
Xylenes (total)	"	"	"		0.100	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*93.3*	%	
Surrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*99.7*	"	

Sequoia Analytical

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

E	Project:	Exxon	Sampled: 5/13/99
7[redacted]Digital Dr. Suite 6	Project Number:	201011X/7-3006	Received: 5/13/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 5/17/99

S[redacted]mple Description: **A-Eff**
Laboratory Sample Number: **P905279-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
T[redacted]al Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
Gasoline	9050346	5/13/99	5/13/99		10.0	ND	ug/l	
Benzene	"	"	"		0.100	ND	"	
T[redacted]uene	"	"	"		0.100	ND	"	
E[redacted]lbenzene	"	"	"		0.100	ND	"	
Xylenes (total)	"	"	"		0.100	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*92.0*	%	
S[redacted]rogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*97.3*	"	

Sequoia Analytical

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

[redacted]	Project:	Exxon	Sampled: 5/13/99
7[redacted] Digital Dr. Suite 6	Project Number:	201011X/7-3006	Received: 5/13/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 5/17/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9050346	**Date Prepared: 5/13/99**					**Extraction Method: EPA 5030 waters**				
Blank	**9050346-BLK1**									
Gasoline	5/13/99			ND	ug/l	**50.0**				
Benzene	"			ND	"	**0.500**				
Toluene	"			ND	"	**0.500**				
Ethylbenzene	"			ND	"	**0.500**				
Xylenes (total)	"			ND	"	**0.500**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*285*	"	*65.0-135*	*95.0*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*287*	"	*65.0-135*	*95.7*			
LCS	**9050346-BS1**									
Gasoline	5/13/99	1000		968	ug/l	65.0-135	96.8			
Surrogate: 4-Bromofluorobenzene	"	*300*		*291*	"	*65.0-135*	*97.0*			
Matrix Spike	**9050346-MS1**		**P905154-07**							
Gasoline	5/13/99	1000	87.8	1030	ug/l	65.0-135	**94.2**			
Surrogate: 4-Bromofluorobenzene	"	*300*		*281*	"	*65.0-135*	*93.7*			
Matrix Spike Dup	**9050346-MSD1**		**P905154-07**							
Gasoline	5/13/99	1000	87.8	1040	ug/l	65.0-135	**95.2**	20.0	**1.06**	
Surrogate: 4-Bromofluorobenzene	"	*300*		*266*	"	*65.0-135*	*88.7*			

Sequoia Analytical

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

RI	Project:	Exxon	Sampled: 5/13/99
Digital Dr. Suite 6	Project Number:	201011X/7-3006	Received: 5/13/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 5/17/99

Notes and Definitions

	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(650) 364-9600 • FAX (650) 364-9233

EXXON COMPANY, U.S.A.

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

CHAIN OF CUSTODY

P905279

Consultant's Name: Environmental Resolutions Inc.		**Page** 1 of 1
Address: 73 Digital Dr Suite 100 Novato Ca 94949		**Site Location:** 720 High St.
Project #:	**Consultant Project #:** 201011X	**Consultant Work Release #:** 19432503
Project Contact: Peter Petro	**Phone #:** (415) 382-9105	**Laboratory Work Release #:**
EXXON Contact: Marla Guensler	**Phone #:** (925) 246-8776	**EXXON RAS #:** 7-3006
Sampled by (print): Joel Dyer	**Sampler's Signature:** Joel Dyer	Oakland Ca
Shipment Method:	**Air Bill #:**	

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

ANALYSIS REQUIRED

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
A-Inf	5/13/99	10:16	Air		1	-01	X					
A-EA	5/13/99	10:15	Air		1	-02	X					

COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐ N/A
COOLER TEMPERATURE 22 °C

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
Joel Dyer / ERI				5-13-99	1530	
	5-13-99	1645	Gail Newman	5/13/99	1645	

Pink - Client
Yellow - Sequoia
White - Sequoia

Sequoia Analytical

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

June 22, 1999

Peter Petro
ERI
74 Digital Dr. Suite 100
Novato, CA 94949

RE: Exxon/P906525

Dear Peter Petro:

Enclosed are the results of analyses for sample(s) received by the laboratory on June 18, 1999. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Matt Sakai
Project Manager

CA ELAP Certificate Number 2245

Sequoia Analytical

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

ERI	Project:	Exxon	Sampled: 6/17/99
Digital Dr. Suite 100	Project Number:	201011X/7-3006	Received: 6/18/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 6/22/99

ANALYTICAL REPORT FOR P906525

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
A-INF/7-3006	P906525-01	Air	6/17/99
EFF/7-3006	P906525-02	Air	6/17/99

Sequoia Analytical

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

ERI	Project:	Exxon	Sampled: 6/17/99
Digital Dr. Suite 100	Project Number:	201011X/7-3006	Received: 6/18/99
ovato, CA 94949	Project Manager:	Peter Petro	Reported: 6/22/99

ample Description: **A-INF/7-3006**
aboratory Sample Number: **P906525-01**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
otal Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
asoline	9060550	6/18/99	6/18/99		10.0	ND	ug/l	
Benzene	"	"	"		0.100	ND	"	
Toluene	"	"	"		0.100	ND	"	
hylbenzene	"	"	"		0.100	ND	"	
ylenes (total)	"	"	"		0.100	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*93.0*	*%*	
urrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*98.3*	"	

Sequoia Analytical

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

ERI	Project:	Exxon	Sampled: 6/17/99
Digital Dr. Suite 100	Project Number:	201011X/7-3006	Received: 6/18/99
ovato, CA 94949	Project Manager:	Peter Petro	Reported: 6/22/99

mple Description: **A-EFF/7-3006**
boratory Sample Number: **P906525-02**

Analyte	Batch Number	Date Prepared	Date Analyzed	Specific Method/ Surrogate Limits	Reporting Limit	Result	Units	Notes*
Sequoia Analytical - Petaluma								
tal Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M								
soline	9060550	6/18/99	6/18/99		10.0	ND	ug/l	
Benzene	"	"	"		0.100	ND	"	
Toluene	"	"	"		0.100	ND	"	
hylbenzene	"	"	"		0.100	ND	"	
lenes (total)	"	"	"		0.100	ND	"	
Surrogate: a,a,a-Trifluorotoluene	"	"	"	*65.0-135*		*92.0*	*%*	
rrogate: 4-Bromofluorobenzene	"	"	"	*65.0-135*		*96.7*	"	

Sequoia Analytical

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

ERI	Project:	Exxon	Sampled: 6/17/99
Digital Dr. Suite 100	Project Number:	201011X/7-3006	Received: 6/18/99
ovato, CA 94949	Project Manager:	Peter Petro	Reported: 6/22/99

Total Petroleum Hydrocarbons as Gasoline and BTEX by EPA 8015M/8020M/Quality Control
Sequoia Analytical - Petaluma

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	Units	Reporting Limit / Recov. Limits	Recov. %	RPD Limit	RPD %	Notes*
Batch: 9060550	**Date Prepared: 6/18/99**					**Extraction Method: EPA 5030 waters**				
Blank	**9060550-BLK1**									
Gasoline	6/18/99			**ND**	ug/l	**50.0**				
Benzene	"			**ND**	"	**0.500**				
Toluene	"			**ND**	"	**0.500**				
Ethylbenzene	"			**ND**	"	**0.500**				
Xylenes (total)	"			**ND**	"	**0.500**				
Surrogate: a,a,a-Trifluorotoluene	"	*300*		*285*	"	*65.0-135*	*95.0*			
Surrogate: 4-Bromofluorobenzene	"	*300*		*294*	"	*65.0-135*	*98.0*			
LCS	**9060550-BS1**									
Gasoline	6/18/99	1000		962	ug/l	65.0-135	96.2			
Surrogate: 4-Bromofluorobenzene	"	*300*		*310*	"	*65.0-135*	*103*			
Matrix Spike	**9060550-MS1**		**P906464-01**							
Gasoline	6/18/99	1000	ND	929	ug/l	65.0-135	**92.9**			
Surrogate: 4-Bromofluorobenzene	"	*300*		*293*	"	*65.0-135*	*97.7*			
Matrix Spike Dup	**9060550-MSD1**		**P906464-01**							
Gasoline	6/18/99	1000	ND	882	ug/l	65.0-135	**88.2**	20.0	**5.19**	
Surrogate: 4-Bromofluorobenzene	"	*300*		*289*	"	*65.0-135*	*96.3*			

Sequoia Analytical

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

ERI	Project:	Exxon	Sampled: 6/17/99
4 Digital Dr. Suite 100	Project Number:	201011X/7-3006	Received: 6/18/99
Novato, CA 94949	Project Manager:	Peter Petro	Reported: 6/22/99

Notes and Definitions

#	Note
ET	Analyte DETECTED
D	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
y	Sample results reported on a dry weight basis
Recov.	Recovery
PD	Relative Percent Difference

Sequoia Analytical
680 Chesapeake Dr.
Redwood City, CA 94063
(650) 364-9600 • FAX (650) 364-9233

P906525

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** 1
Address: 73 DIGITAL DRIVE NOVATO CA 94949			**Site Location:** 720 HIGH ST
Project #:	**Consultant Project #:** 201011X		**Consultant Work Release #:** 19432503
Project Contact: PETER PETRO	**Phone #:** (415) 382-9105		**Laboratory Work Release #:**
EXXON Contact: MARLA GUENSLER	**Phone #:** (925) 246-8776		**EXXON RAS #:** 7-3006
Sampled by (print): ROWAN FENNELL	**Sampler's Signature:**		OAKLAND
Shipment Method:	**Air Bill #:**		

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

ANALYSIS REQUIRED

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
A-INF	6/17/99	1315	AIR		1	P906525-01	X					
A-EFF	6/17/99	1315	AIR		1	↓ -02	X					
							COOLER CUSTODY SEALS INTACT ☐ NOT INTACT ☐					
							COOLER TEMPERATURE 22 °C					

RELINQUISHED BY / AFFILIATION	Date	Time	ACCEPTED / AFFILIATION	Date	Time	Additional Comments
				6-18-99	1502	
	6-18-99	1700		6/18	1709	

Pink - Client
Yellow - Sequoia
White - Sequoia

ATTACHMENT C

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

HYDROCARBONS 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 acfm	Vapor flow	Calc. lb. rem.
1/6/95	11:00	70	-46	2000	120	
1/7/95	13:00	55	-50	1350	90	
1/8/95	10:00	80	-13	750	100	7.4

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

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

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

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

21 x 60 x 95 x 0.98 x 0.97 x 0.0283 x 1.050 x1/454 = 7.4 lb.
cumulative lbs. (the running total) = the sum of all the previous periods.

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