

#136

F A X T R A N S M I T T A L

FAX NUMBER: 510-337-9335

TO: Barney Chan

Alameda County Health Care Services Agency

Department of Environmental Health

1131 Harbor Bay Parkway, Room 250

DATE: July 14, 1999

PROJECT NUMBER: 201013X

SUBJECT: Exxon Service Station 7-3006

720 High Street, Oakland, California

FROM: Joe A. Giller

TITLE: Staff Geologist

WE ARE SENDING YOU:

COPIES	DATED	DESCRIPTION
1		Cumulative Groundwater Monitoring and Sampling Data (11 pages)
1		Operation and Performance Data for Groundwater Remediation System (12 pages)
1		Cumulative Hydrocarbon Removal and Emissions for Soil Vapor Extraction System (7 pages)

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit ___ copies for approval |
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REMARKS: As requested in your telephone conversation with Mr. Peter A. Petro of ERI on July 13, 1999, ERI is submitting the complete tables necessary to complete ERI's report entitled *Quarterly Groundwater Monitoring and Remediation Status Report, First Quarter 1999*.

Joe A. Giller, Staff Geologist

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

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev. >.....<	TBPHd <.....>	TPPHg <.....>	MTBE <.....>	B <.....>	T <.....>	E <.....>	X <.....>	VOCs <.....>	EHCS <.....>	TOC >.....<
<i>Offsite Well</i> MW1 (12.87)	1/20/94	NLPH	9.25	3.62	---	---	---	---	---	---	---	---	---	---
	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	7.2	<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	3.53	88	<50	5.1	<0.5	<0.5	<0.5	<0.5	---	---	---	
3/24/98	NLPH	6.44	6.43	58	<50	3.6	<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	---	---	---	---	---	---	---	---	---	---	
MW2 (12.98)	1/20/94	--- [NR]	---	---	---	---	---	---	---	---	---	---	---	---
	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	5.63	---	---	---	---	---	---	---	---	---	---
	12/27/94	Sheen	6.77	6.21	---	---	---	---	---	---	---	---	---	---
2/6/95	Sheen	5.00	7.98	---	---	---	---	---	---	---	---	---	---	

E.R.I.

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TABLE I
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California
(Page 2 of 11)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev. >.....<	TEPHd <.....>	TPPHg <.....>	MTBE <.....>	B <.....>	T ug/l	E <.....>	X <.....>	VOCs <.....>	BHCs <.....>	TOG >.....<
MW2 (cont.) (12.98)	6/7/95	Sheen	7.44	5.84	---	---	---	---	---	---	---	---	---	---
	9/18/95	Sheen	10.82	2.16	---	---	---	---	---	---	---	---	---	---
	11/1/95	Sheen	11.65	1.33	---	---	---	---	---	---	---	---	---	---
	2/14/96	Sheen	8.39	4.39	---	---	---	---	---	---	---	---	---	---
	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	3.3	---	---	---
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	6.36	---	---	---	---	---	---	---	---	---	---	
MW3 (12.92)	1/20/94	Sheen	8.24	4.68	---	---	---	---	---	---	---	---	---	---
	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	---	---	---	---	---	---	---	---	---	---
	5/7/95	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*	4,500	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	---	---	---	

Not Mon.



E.R.I.

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TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
 (Page 3 of 11)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev.	TPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCs	TOG
MW3 (cont.) (12.92)	6/23/98	NLPH	11.13	1.79	39,000	1,300	9.4	53	<1.0	<1.0	<1.0	---	---	---
	9/29/98	Sheen	10.46	2.46	2,600	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	---	---	---	---	---	---	---	---	---	---
MW4 (12.77)	1/20/94	--- [NR]	---	---	---	---	---	---	---	---	---	---	---	---
	02/02-03/94	--- [1 c.]	---	---	---	---	---	---	---	---	---	---	---	---
	3/10/94	[8 c.]	7.32	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	0.05 [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	80	---	---	---
	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	---	---	---	---	---	---	---	---	---	---	
MW5	7/18/89	Well Destroyed												

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TABLE I
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
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Well ID #	Sampling Date	SUBI	DTW feet	Elev. >	TEPHd <	TPPHg <	MTBE <	B <	T <	E <	X <	VOCs <	EHCs <	TOG >
MW6 (14.27)	1/20/94	[NR]	---	---	---	---	---	---	---	---	---	---	---	---
	02/02-03/94	[NR]	---	---	---	---	---	---	---	---	---	---	---	---
	3/10/94	[4 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	---	---	---	---	---	---	---	---	---	---
	11/11/95	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	---	---	---	---	---	---	---	---	---	---	
MW7 (14.84)	1/20/94	NLPH	8.67	6.17	---	---	---	---	---	---	---	---	---	---
	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	---

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E.R.I.

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TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-1006
 720 High Street
 Oakland, California
 (Page 5 of 11)

Well ID #	Sampling Date	SUBJ	DTW	Elev.	TEPHd	TPPHg	MTBE	B	T	B	X	VOCs	EHCss	TOG
(FOC)			feet		<				ug/l					>
MW7 (cont.) (14.84)	6/7/95	NLPH	7.71	7.11	1,200	2,400	39	91	5	7.6	14	—	1,000	—
	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	10.36	4.28	1,700	3,000	<15	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	8.38	—	—	—	—	—	—	—	—	—	—	
MW8 (13.45)	1/20/94	Sheen	8.90	4.55	—	—	—	—	—	—	—	—	—	—
	02/02-03/94	Sheen	8.58	4.87	—	—	—	—	—	—	—	—	—	—
	3/10/94	Sheen	7.16	6.29	—	—	—	—	—	—	—	—	—	—
	4/22/94	Sheen	7.34	6.31	—	—	—	—	—	—	—	—	—	—
	05/30-11/94	Sheen	7.04	6.41	—	—	—	—	—	—	—	—	—	—
	6/23/94	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	—	—	—	
MW8 (cont.)	3/24/98	NLPH	6.52	6.93	2,900	10,000	<125	190	<25	470	330	—	—	—

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E.R.I.

07/14/99 13:07 FAX

TABLE 1
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
 (Page 6 of 11)

Well ID # (TOC)	Sampling Date	SUBI <.....>	DTW feet	Elev. <.....>	ug/l										TOG >
					TEPH1	TPPH2	MTBE	B	T	E	X	VOCs	BHCs		
(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	Sheeo	5.21	8.24	2,250	13,000	22.6	336	53.2	415	326	---	---	---	
	6/23/99	Sheeo	6.51	6.94	---	---	---	---	---	---	---	---	---	---	
MW9 (14.64)	1/20/94	---	---	---	---	---	---	---	---	---	---	---	---	---	
	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	---	<50	---	
	6/19/96	NLPH	6.68	7.96	68	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	
	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	---	---	---	---	---	---	---	---		

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E.R.I.

07/14/98 13:07 FAX

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

Well ID # (TOC)	Sampling Date	SUBI	DTW (feet)	Elev.	TPPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCs	TOG
					<									>
MW10 (14.05)	1/20/94	NLPH	8.40	5.65	---	---	---	<0.5	1	<0.5	1.8	---	---	---
	02/02-03/94	NLPH	8.00	6.05	<50	<50	---	---	---	---	---	---	---	---
	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	---	---	---
	11/11/95	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	---	<50	---
	6/19/96	NLPH	7.32	6.73	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---
	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	---	---	---	
MW11 (13.55)	1/20/94	NLPH	9.61	3.94	---	---	---	---	---	---	---	---	---	---
	02/02-03/94	NLPH	9.56	3.99	160	<50	---	<0.5	1	<0.5	0.9	---	---	---
	3/10/94	NLPH	8.39	4.96	---	---	---	---	---	---	---	---	---	---
	4/22/94	NLPH	8.47	5.08	---	---	---	---	---	---	---	---	---	---
	05/10-11/94	NLPH	8.12	5.43	1002	<50	---	<0.5	<0.5	<0.5	3.2	---	---	---
	6/27/94	NLPH	8.65	4.90	---	---	---	---	---	---	---	---	---	---
8/31/94	NLPH	9.80	3.75	---	---	---	---	---	---	---	---	---	---	

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E.R.I.

07/14/99 13:07 FAX

TABLE I
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Exxon Service Station 7-3006

720 High Street

Oakland, California

(Page 8 of 11)

Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet.....>	Elev. <.....>	TEPHd <.....>	TPPHg <.....>	MTBE <.....>	D <.....>	T ug/l <.....>	E <.....>	X <.....>	VOCs <.....>	EHCSi <.....>	TOG <.....>
MW11 (cont.) (13.55)	9/29/94	NLPH	10.16	3.39	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---
	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	8.01	5.52	76	<50	37	<0.5	<0.5	<0.5	<0.5	---	<50	---
	6/19/96	NLPH	7.85	5.70	92	<50	33	<0.5	<0.5	<0.5	<0.5	---	---	---
	9/24/96	NLPH	10.45	3.00	58	<50	40	<0.5	<0.5	<0.5	<0.5	---	---	---
	12/11/96	NLPH	9.02	4.33	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	---	---	---	
MW12 (12.61)	1/20/94	NLPH	7.81	4.80	---	---	---	---	---	---	---	---	---	---
	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	---	30,000	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	5.02	---	---	---	---	---	---	---	---	---	---
	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	---	---	---	---	---	---	---	---	---	---	

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E.R.I.

07/14/99 13:08 FAX

TABLE I
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
 (Page 9 of 11)

Well ID # (TOC)	Sampling Date	STRI	DTW feet	Elev. >	TEPHd <	TPPHg <	MTBE <	B <	T ug/l	E <	X <	VOCs <	ETCs <	TOG >
MW12 (cont.) (12.61)	3/19/97	Sheen	9.96	2.65	---	---	---	---	---	---	---	---	---	---
	6/4/97	Sheen	8.81	3.80	---	---	---	---	---	---	---	---	---	---
	9/2/97	Sheen	8.95	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	6,800	42,000	<250	820	240	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	---	---	---	---	---	---	---	---	---	---
MW13 (14.20)	1/20/94	NLPH	9.08	5.12	---	---	---	---	---	---	---	---	---	---
	02/02-03/94	NLPH	8.75	5.45	6,100	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	5.71	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	---	---	---	
1/24/99	Sheen	4.91	9.29	688	3,730	15.5	35.9	1.58	150	112	---	---	---	
6/21/99	Sheen	5.66	8.54	---	---	---	---	---	---	---	---	---	---	

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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 feet	Elev. >.....<	TEPHd <.....>	TPPhg <.....>	MTBE <.....>	B <.....>	T ug/l	E <.....>	X <.....>	VOCs <.....>	EMCs <.....>	TOG >.....<
MW14 (15.18)	1/20/94	---	---	---	---	---	---	---	---	---	---	---	---	---
	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	11,000	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	Sheep	---	8.15	7.03	---	---	---	---	---	---	---	---	400
	2/6/95	NLPH	7.18	8.03	1,200	360	---	<1.0	<1.0	<1.0	<1.0	---	---	---
	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	5.38	1,900	1,300	<10	<2.0	<2.0	<2.0	3	---	1,200	---
	11/1/95	NLPH	10.56	4.62	2,700	1,400	<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	690	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	---	---	---	
6/23/99	NLPH	7.24	7.94	---	---	---	---	---	---	---	---	---	---	
MW15 (11.73)	1/20/94	NLPH	7.48	6.25	---	---	---	---	---	---	---	---	---	---
	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	2,900	---	51	15	48	3.6	---	---	---
	10/25/94	Sheep	---	8.19	5.54	---	---	---	---	---	---	---	---	---
	11/30/94	---	---	8.57	5.16	---	---	---	---	---	---	---	---	---
12/27/94	NLPH	6.49	7.24	---	---	---	---	---	---	---	---	---	---	

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TABLE 1
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Exxon Service Station 7-3006
720 High Street
Oakland, California
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Well ID # (TOC)	Sampling Date	SUBJ <.....>	DTW feet	Elev. >	<.....>											
					TEPHd	TPPHg	MTBE	B	T	E	X	VOCs	EHCs	TOG		
MW15 (cont.) (B3.73)	2/6/95	Sheen	4.97	8.76	---	---	---	---	---	---	---	---	---	---	---	---
	6/7/95	Sheen	7.14	6.59	---	---	---	---	---	---	---	---	---	---	---	---
	9/18/95	Sheen	9.00	4.73	---	---	---	---	---	---	---	---	---	---	---	---
	11/1/95	Sheen	10.67	3.06	---	---	---	---	---	---	---	---	---	---	---	---
	2/14/96	Sheen	7.27	6.46	---	---	---	---	---	---	---	---	---	---	---	---
	6/19/96	Sheen	6.66	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	---	---	---	---	---	---	---	---	---	---	---	---
	4/4/97	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	30	<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	---	---	---	---	---	---	---	---	---	---	---	---	

- 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.
 - EHCs = Extractable Hydrocarbons as Standard Solvent analyzed using EPA method 8015.
 - NR = No liquid-phase hydrocarbons removed from well
 - = Not measured/not analyzed.
 - < = Less than the indicated detection limit shown by the laboratory.
 - ^ = A peak eluting earlier than benzene and suspected to be methyl tertiary butyl ether was present
 - * = TEPH note: Analyst notes samples resemble pilot thinner more than Standard Solvent
 - o = 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
 (Page 1 of 7)

DATE	SAMPLE ID	TEMP deg F	PRESS in H ₂ O	AIR FLOW cu ft/min	HC In ppmv	HC Em ppmv	HC In Conc* mg/cu M	LB HC for Period	LB HC Cumulative	Benzene In Conc* mg/cu M	LB Benzene per Period	LB Benzene Cumulative	LB Benzene Emitted per Day
1/9/95	A-INF	70		160			210			39			
	A-INT						< 10			< 0.1			
	A-EFF						< 10			< 0.1			
1/10/95	A-INF	70		160			110	2.30	2.1	22	0.438	0.44	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/11/95	A-INF	70		160			70	1.29	3.6	12	0.244	0.68	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/12/95	A-INF	70		160			< 10	< 0.57	4.2	< 0.1	< 0.057	< 0.77	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/13/95	A-INF	70		160			< 10	< 0.14	4.5	< 0.1	< 0.061	< 0.77	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/14/95	A-INF	70		160			< 10	< 0.14	4.5	< 0.1	< 0.061	< 0.77	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/15/95	A-INF	70		158			< 10	< 0.14	4.6	< 0.1	< 0.061	< 0.77	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/16/95	A-INF	70		151			< 10	< 0.14	4.7	< 0.1	< 0.061	< 0.77	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/17/95	A-INF	70		155			< 10	< 0.14	4.9	0.13	0.062	< 0.78	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/18/95	A-INF	70		155			100	0.77	5.6	12	0.064	< 0.86	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
1/19/95		70		155	15	0	68	1.17	6.8				
1/20/95		70		155	14.4	0	66	0.93	7.7				
2/3/95	A-INF	70		147			39	13.89	20.9	3.5	1.471	< 2.33	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
2/14/95		70		147			41	6.67	39.6				
2/17/95		70		155	9	0							
2/27/95		70		151									
3/13/95	A-INF	70		176			< 10	< 14.21	43.8	0.42	1.137	< 3.47	
	A-INT						< 10			< 0.1			< 0.0014
	A-EFF						< 10			< 0.1			
3/31/95		70		116	2.3	0	10	2.01	45.8				
4/4/95		70		84	129	0.8	587	76.68	122.5				
4/12/95	A-INF	70		176			95	24.88	147.4	6.4	1.616	< 5.08	
	A-INT						< 10			0.38			< 0.0014
	A-EFF						< 10			< 0.1			
4/19/95	A-INF	70		109			210	13.65	161.0	7.6	0.627	< 5.71	
	A-INT						47			12			< 0.0014
	A-EFF						< 10			< 0.1			

Replaced 2 ea x 500 lb canisters = 1000 lbs of Carbon

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

DATE	SAMPLE ID	TEMP deg F	PRESS in H ₂ O	AIR FLOW cu ft/min	HC Inf ppmv	HC Eff ppmv	HC Inf Conc* mg/ku 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-INT	70		84			400	18.49	179.5	9.1	0.640	< 6.35	
	A-EFF						< 10			< 0.1			< 0.008
	A-EFF						< 10			< 0.1			
5/1/95	Installed third 500 lb canister in series												
5/1/95	A-DNF	70		166			Insufficient sample for analyses						
	A-DNT						< 10			< 0.1			< 0.0015
	A-EFF						< 10			< 0.1			
5/15/95	A-INT	70		84			140	52.68	232.2	3.5	1.229	< 7.58	
5/19/95	A-INT	70		105			< 10			< 0.1			< 0.0009
	A-EFF						< 10			< 0.1			
6/6/95	A-INT	70		178			36	20.12	232.3	0.22	0.535	< 8.11	
	A-DNT						< 10			< 0.1			< 0.0016
	A-EFF						< 10			< 0.1			
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-INT	70		164			440	62.30	334.4	4.9	0.668	< 8.78	
	A-DNT						< 10			< 0.1			< 0.0015
	A-EFF						< 10			< 0.1			
7/3/95	A-EFF						< 10			< 0.1			
7/10/95	Replaced one 500 lb carbon canister												
7/10/95	A-INT	70		168			230	64.89	379.3	2.8	0.746	< 9.33	
	A-DNT						120			2.8			< 0.0015
	A-EFF						< 10			< 0.1			
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-INT	70		203			67	37.29	416.6	< 0.5	< 0.434	< 9.94	
	A-DNT						< 100			< 1			< 0.0018
	A-EFF						< 10			< 0.1			
7/28/95	System down - could not restart												
7/31/95	Restart system												
7/31/95	A-INT	70		164			300	88.78	435.4	14	< 0.480	< 10.42	
	A-DNT						12			< 0.1			< 0.0015
	A-EFF						< 10			< 0.1			
8/9/95	Replaced one 500 lb carbon canister												
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	Replaced 2 ea. x 500 lb canisters = 1000 lbs of carbon												
9/18/95	A-DNF	70		164			980	196.08	631.5	13	3.577	< 14.80	
	A-DNT						< 10			< 0.1			< 0.0015
	A-EFF						< 10			< 0.1			
9/20/95	System Down - hydrocarbon vapor detector shut down												
9/23/95	Restarted system												
9/25/95	A-INT	70		164			NA			< 0.1			
	A-DNT						NA			< 0.1			
	A-EFF						NA			< 0.1			
10/11/95	Replaced 2 ea. x 500 lb canisters = 1000 lbs of carbon												

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TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
 (Page 3 of 7)

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC Inf ppmv	HC Eff ppmt	HC Inf Conc ¹ mg/cc M	LB HC for Period	LB HC Cumulative	Benzene Inf Conc ² mg/cc M	LB Benzene per Period	LB Benzene Cumulative	LB Benzene Emitted per Day
10/13/95	A-DNF A-INT A-EFF	70		168			2000	444.04	1,075.5	100	16.838	< 30.84	< 0.0038
10/26/95	Replaced 2 ea x 500 lb canisters = 1000 lbs of carbon												
10/26/95		70		168	165	0	751	269.69	1,345.7				
11/6/95	Replaced 2 ea x 500 lb canisters = 1000 lbs of carbon												
11/20/95	A-INT	70		170			180	176.60	1,521.8	3.6	1.038	< 31.68	
11/20/95	A-INT						82			2			
	A-INT						< 10			< 0.1			< 0.0015
	A-EFF						< 10			< 0.1			
11/26/95	System down												
12/4/95	Restart system												
12/18/95	A-INT	70		151			4600	469.45	2,083.3	50	10.105	< 41.98	
	A-INT						< 10			< 0.1			< 0.0014
	A-INT						< 10			< 0.1			
	A-EFF	70		147	51.7	8.2	215	185.04	2,488.3				
1/2/96	Shut system down, pending carbon change out												
1/3/96	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		< 0.001	< 41.98	
1/8/96		70		152.8	62.3	0	180	7.50	2,524.5	< 0.1			< 0.0013
1/16/96	A-DNF A-EFF	70						37.28	2,561.8				
		70		147	50.4	0	230		2,568.3	0.16	0.049	< 42.00	< 0.0015
1/30/96	A-INT	72		147	39.7	0	< 10	< 0.49		< 0.1			< 0.0015
2/14/96	A-EFF						< 10			< 0.1			
2/27/96		70		136.5	1	0	5	1.28	2,563.5		< 0.045	< 42.07	< 0.0012
2/12/96	A-INT	70		136.5	2.2	0	< 10	< 1.25	2,561.8	< 0.1	< 0.017	< 42.09	< 0.0012
	A-EFF						< 10			< 0.1			< 0.0013
3/25/96	A-INT	70		147	2.4	0	< 10	< 1.65	2,566.4	< 0.1			< 0.0013
	A-EFF						< 10			< 0.1			
3/25/96	System shutdown to install Thermetech VAC-25 thermal catalytic oxidizer												
6/5/96	Start-up system utilizing Thermetech VAC-25 thermal catalytic oxidizer												
6/15/96	A-INT			110			410			4.7			< 0.0025
	A-INT						< 10			< 0.05			
	A-EFF				45.8	1.1	194	54.26	2,620.7	< 0.1	< 0.678	< 42.77	< 0.0016
8/29/96				176			130	21.73	2,642.4	< 0.1			
9/6/96	A-INT						< 10			< 0.1			
	A-EFF				96	4.4	406	13.18	2,655.6				
9/9/96				184.8	141	5.1	597	121.82	2,777.4		< 0.235	< 43.00	< 0.0016
9/24/96				176			1300	135.22	2,915.6	< 1			< 0.0016
10/3/96	A-INT						< 10			< 0.1			
	A-EFF				173	4.5	732	96.31	3,011.9				
10/9/96				184.8	105	4.4	444	47.63	3,059.6				
10/14/96				176	89.2	4.5	378	46.58	3,106.1				
10/21/96				176	58.3	0.7	247	44.39	3,150.5				
10/30/96	System down, unable to restart due to reset failure												
11/6/96	Replaced thermocouple, restarted unit												
11/7/97				44			< 10	0.55	3,151.1	0.14	0.008	< 43.01	< 0.0002
1/31/97	A-INT						< 10			< 0.05			
	A-EFF						86	2.84	3,153.9	2.2	0.069	< 43.08	< 0.0016
2/6/97	A-DNF			176			< 10			< 0.10			
	A-EFF				25	2	306	12.12	3,165.0				
2/14/97				176									

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TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
 Former Exxon Service Station T-3006
 720 High Street
 Oakland, California
 (Page 4 of 7)

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC Inf ppmv	HC EO 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	3,187.1				
2/20/97				176	51	0	224	49.48	3,231.6				
2/5/97	A-INF			176			210	17.15	3,248.7	< 0.10	< 0.491	< 41.57	< 0.0016
	A-EFF						< 10			< 0.10			
3/12/97				211.2	62	0.7	262						
3/19/97				230	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	< 0.0020
	A-EFF						< 10			< 0.10			
4/9/97				220	40	1	169						
4/16/97				220	58	1	245						
4/23/97				220	30	1	127						
4/20/97				220	30	2	127						
5/8/97	A-INF			193.6			340	170.41	3,513.7	4.8	2.940	< 47.53	< 0.0017
	A-EFF						< 10			< 0.10			
5/14/97				193.6	80	1	330						
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	< 0.0016
	A-EFF						< 10			< 0.10			
6/11/97				176	40	0	169						
6/18/97				158.4	30	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	< 0.0015
	A-EFF						< 10			< 0.10			
7/9/97				202.4	29.4	0	126						
7/16/97				246.4	14.7	0	62						
7/22/97				246.4	54.2	0	229						
7/30/97				220	35.1	0	153						
8/7/97	A-INF			220			160	159.53	3,963.1	< 0.50	< 1.846	< 52.89	< 0.0020
	A-EFF						13			< 0.10			
8/14/97				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	< 0.0014
	A-EFF						< 10			< 0.10			
9/10/97				123.2	800	4.0	3306						
9/17/97				158.4	133	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	< 0.0016
	A-EFF						< 10			< 0.10			
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	298.38	4,567.6	< 0.10	< 0.883	< 55.20	< 0.0016
	A-EFF						< 10			< 0.10			
11/20/97				158.4	33	3.2	135						
11/25/97				123.2	36	3.0	237						
12/3/97	A-INF			220			NA			NA	NA		< 0.0020
	A-EFF						< 10			< 0.10			
12/10/97				176	19	0.5	80						

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TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
 (Page 5 of 7)

DATE	SAMPLE ID	TEMP deg F	PRESS in H ₂ O	AIR FLOW cu ft/min	HC Int ppm	HC Eff ppm	HC Int Conc ^a mg/cu M	LB HC for Period	LB HC Cumulative	Benzene Int Conc ^a 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	4,983.3	< 0.10	< 0.074	< 55.27	< 0.0016
	A-EFF						< 10			< 0.10			
1/6/98	A-INF			176			70	7.65	4,920.9	2.1	< 0.139	< 55.41	< 0.0016
	A-EFF						< 10			< 0.1			
1/13/98				210.2	6	1.0	25						
1/20/98				184.8	4	1.3	37						
2/3/98	System down due to chart recorder problem												
2/10/98	Repair system												
2/10/98	A-INF			132			< 10	< 15.48	< 4,936.4	1.1	0.619	< 56.03	< 0.0012
	A-EFF						< 10			< 0.1			
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	< 0.0047
	A-EFF						< 10			< 0.1			
3/17/98				167.2	1.6	1.4							
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	< 0.0008
	A-EFF						< 10			< 0.1			
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	< 0.0008
	A-EFF						< 10			< 0.1			
5/19/98				88	1.8	1.2							
5/26/98				88	1.7	1.2							
6/2/98	A-INF			88	4.3	2.0	18	< 3.32	< 4,949.8	< 0.1	< 0.017	< 57.08	< 0.0008
	A-EFF						< 10			< 0.1			
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	< 4,954.6	< 0.1	< 0.030	< 57.11	< 0.0009
	A-EFF						< 10			< 0.1			
7/14/98	A-INF			132	3.1	0.0	39	< 1.51	< 4,955.5	0.91	< 0.031	< 57.15	< 0.0012
	A-EFF						< 30			< 0.1			
7/31/98	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	< 0.0016
	A-EFF						< 10			< 0.10			
8/5/98	System down on arrival due to combustion 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	2.90	< 0.001	< 57.15	< 0.0017
	A-EFF						< 10			< 0.1			
8/11/98	A-INF			193.6	2.7	0.3							

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TABLE 2
CUMULATIVE HYDROCARBON REMOVAL AND EMISSIONS FOR
SOIL VAPOR EXTRACTION SYSTEM
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
 (Page 6 of 7)

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC Inf ppmv	HC Eff ppmv	HC Inf Conc ^a mg/cu M	LB HC for Period	LB HC Cumulative	Benzene Inf Conc ^a 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				192.6	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	63	20.97	< 4,976.6	1.80	0.464	< 57.64	< 0.0017
	A-EFF						< 10			< 0.10			
9/8/98				202.4	1.6	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	< 4,997.8	1.70	0.444	< 55.06	0.0018
	A-EFF						< 10			< 0.10			
	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	41.30	< 5,841.3	5.00	1.727	< 59.78	0.0017
	A-EFF						< 10			< 0.10			
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 In/			< 0.40			
	A-EFF						< 10						
12/16/98				184.8	8.5	0.0							
12/23/98	System down upon arrival due to propane tank running empty. System restarted 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	< 0.0025
	A-EFF						< 10			< 0.1			
1/12/99	A-INF			264	2.8	0.0							
	A-EFF												
1/18/99	A-INF			220	303.8	6.4							
	A-EFF												
1/26/99	A-INF			184.8	32.0	5.6							
	A-EFF												
2/4/99	A-INF			176	32.5	6.7	< 50	< 35.65	< 5,122.7	< 0.5	< 0.076	< 61.01	< 0.0079
	A-EFF						< 50			< 0.5			
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 contaminant 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	< 0.0111
	A-EFF						< 10			< 0.5			
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	< 0.0013
	A-EFF						< 10			< 0.1			
4/21/99	A-INF			123.2	3.5	0							
	A-EFF												
4/28/99	A-INF			123.2	10.1	0							

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

DATE	SAMPLE ID	TEMP deg F	PRESS in H2O	AIR FLOW cu ft/min	HC In ppmv	HC Eff ppmv	HC In Conc* mg/cu M	LB HC for Period	LB HC Cumulative	Benzene In Conc* mg/cu M	LB Benzene per Period	LB Benzene Cumulative	LB Benzene Emitted per Day
5/14/99	A-EFF			132	0	0							
5/13/99	A-INT A-EFF A-INT A-EFF			176	1.3	0	< 10 < 10	< 3.84	5,136.1	< 0.1 < 0.1	< 0.038	< 61.28	< 0.0016
5/18/99	A-INT A-EFF			176	1.3	0							
5/25/99	A-INT A-EFF			167.2	0	0							
6/11/99	System down upon arrival, emergency stop button was activated.												
6/11/99	A-INT A-EFF			167.2	4.9	4.5							
6/17/99	System operated for 24.3 day for removal calculations.												
6/17/99	A-INT A-EFF			167.2	1.3	1	< 10 < 10	< 3.74	5,139.9	< 0.1 < 0.1	< 0.037	< 61.32	< 0.0015
6/17/99	System shut down for pulsing												
6/23/99	System restarted												
6/23/99	A-INT A-EFF			176	1.3	0							
6/29/99	A-INT A-EFF			176	2.9	0							

Notes:

- A-INT = Air Inlet
- A-INT = Air Intermediate
- A-EFF = Air Effluent
- NA = Not Analyzed
- cu. ft/min = cubic feet per minute
- ppmv = parts per million by volume

*If value is below laboratory detection limit, detection limit value is used.

*Value calculated using ERI SOP-25 "Hydrocarbons Removed from a Vadose Well" (Attachment C)

- HC = Hydrocarbons measured as total extractable petroleum hydrocarbons as gasoline analyzed using EPA method 8015 (modified)
- ug/l = micrograms per liter
- mg/cuM = milligrams per cubic meter
- lb = pounds
- acfm = actual cubic feet per minute
- < = less than the laboratory method detection limit

**TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM**

Former Exxon Service Station 7-3006

720 High Street

Oakland, California

(Page 1 of 12)

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	B [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				

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TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
 Former Exxon Service Station 7-3005
 720 High Street
 Oakland, California
 (Page 2 of 12)

Date	Total Flow [gall]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumulative [lb]	Per Period [lb]	Cumulative [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)						0.1366	0.6362	0.0251	0.1063	
5/26/95	97,840	829	W-INF	680	210	16	5.8	28					NA
			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	0.5871	1.2233	0.2165	0.3228
			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						0.1700	1.3933	0.0621	0.3850	
7/11/95	131,690	320	W-INF1	1600	530	15	<10	59					NA
			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				

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TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California
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Date	Analytical Data		Sample ID	TPHg Removed						Benzene Removed			
	Total Flow [gal]	Average Flowrate [gpd]		TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [ug/l]	Per Period [lb]	Cumulative [lb]	Per Period [lb]	Cumulative [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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TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
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Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed		
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumulative [lb]	Per Period [lb]	Cumulative [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													

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TABLE 3
 OPERATION AND PERFORMANCE DATA FOR
 GROUNDWATER REMEDIATION SYSTEM
 Former Exxon Service Station 7-3006
 720 High Street
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Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumulative [lb]	Per Period [lb]	Cumulative [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	450	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	590	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	0.0338	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				
3/6/97	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

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

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Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumulative [lb]	Per Period [lb]	Cumulative [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-EFP	<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-EFP	<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-EFP	<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	403,327	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-EFP	<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											

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TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
 Former Exxon Service Station 7-3006
 720 High Street
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Date	Flow		Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
	Total Flow [gal]	Average Flowrate [gpd]		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]
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-BFF	<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-BFF	<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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TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
Former Exxon Service Station 7-3006
720 High Street
Oakland, California
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Date	Flow		Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
	Total Flow [gal]	Average Flowrate [gpd]		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]
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											
5/3/98	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 inadvertently not analyzed by the laboratory.										

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**TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM**

Former Exxon Service Station 7-3006

720 High Street

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

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**TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM**

Former Exxon Service Station 7-3006
720 High Street
Oakland, California
(Page 11 of 12)

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumulative [lb]	Per Period [lb]	Cumulative [lb]
9/22/98	673,870	296											
9/29/98	673,940	10											
10/6/98	676,292	336	W-INF1	990	300	<5.0	7.2	24	NA	0.0498	10.2692	0.0147	2.5818
			W-INF2	<50	0.6	<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				
10/15/98	679,330	336	System down until carbon change out.										
10/20/98	679,330	0	System down until carbon change out.										
10/27/98	679,320		W-INF1	1600	510	<10	10	62	NA	0.0349	10.3041	0.0109	2.5927
			W-INF2	<50	4.6	<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	0.19				
11/4/98	682,780	407	System shutdown on departure due to problems with the feed pump.										
11/12/98	682,810		System restarted upon departure of site.										
11/17/98			Fix problem with float in water stripper. System restarted on departure.										
11/24/98			System running on departure.										
11/24/98	687,980	430	W-INF1	420	100	3.8	2.7	3.3	NA	0.0713	10.3754	0.0215	2.6143
			W-INF2	78	3.3	8.6	<0.5	0.51	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				
11/25/98			Inspection by EBMUD.										
11/25/98	688,262	646	W-EFF	<50	<.50	<.50	<.50	<.50	NA				
12/2/98	689,130	52	System down upon arrival. System restarted on departure.										
12/9/98	695,800		W-INF1	1500	480	19	49	120	NA	0.0626	10.4180	0.0189	2.6332
			W-INF2	310	95	3.1	3.9	32	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				
12/16/98	695,800		System down upon arrival. System restarted on departure.										
12/23/98	702,994		System down on departure. pending a permit renewal from EBMUD.										

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TABLE 3
OPERATION AND PERFORMANCE DATA FOR
GROUNDWATER REMEDIATION SYSTEM
 Former Exxon Service Station 7-3006
 720 High Street
 Oakland, California
 (Page 12 of 12)

Date	Total Flow [gal]	Average Flowrate [gpd]	Sample ID	Analytical Data						TPHg Removed		Benzene Removed	
				TPHg [ug/l]	B [ug/l]	T [ug/l]	E [ug/l]	X [ug/l]	Arsenic [mg/l]	Per Period [lb]	Cumulative [lb]	Per Period [lb]	Cumulative [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.									
2/1/99	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-INP1	= water influent before stripper or before tank	B	= Benzene	NA	= Not applicable
W-INP2	= 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		