

**EXXON** COMPANY, U.S.A.

ENVIRONMENTAL  
PROTECTION

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

DARIN L. ROUSE  
SENIOR ENGINEER

(925) 246-8768  
(925) 246-8798 FAX

# 1068

March 10, 2000

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

**RE: Former Exxon RAS #7-0236/6600 East 14<sup>th</sup> Street, Oakland, California.**

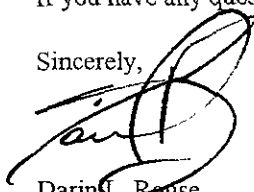
Dear Mr. Chan:

Attached for your review and comment is a letter report entitled *Quarterly Groundwater Monitoring Report, First Quarter 2000*, dated February 23, 2000, for the above referenced site. The report was prepared by Environmental Resolutions, Inc. (ERI) of Novato, California, and details the results of quarterly groundwater monitoring and sampling activities at the subject site.

Base on our recent meeting, Exxon will be submitting an addendum to the submitted closure plan incorporating data obtained by the current property owner to expedite case closure. Exxon also anticipated removing the tank noted on the adjacent parcel and collecting appropriate samples.

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

Sincerely,

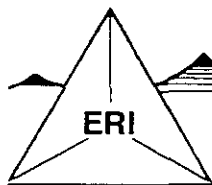


Darin L. Rouse  
Senior Engineer

Attachment: ERI's Quarterly Groundwater Monitoring Report, First Quarter 2000, dated February 23, 2000.

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

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



## ENVIRONMENTAL RESOLUTIONS, INC.

February 23, 2000  
ERI 200913.R21

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

Subject: Quarterly Groundwater Monitoring Report, First Quarter 2000, Former Exxon Service Station 7-0236, 6600 East 14th Street, Oakland, California.

Mr. Rouse:

At the request of Exxon Company, U.S.A. (Exxon), Environmental Resolutions, Inc. (ERI) is reporting the results of the first quarter 2000 groundwater monitoring and sampling event at the subject site. The location of the site is shown on the Site Vicinity Map (Plate 1). The purpose of quarterly monitoring and sampling is to evaluate concentrations of dissolved hydrocarbons in groundwater and the direction and gradient of groundwater flow. Blaine Tech Services, Inc. (Blaine Tech) performed the site field activities at the request of Exxon.

### GROUNDWATER MONITORING AND SAMPLING

On January 26 and 27, 2000, Blaine Tech measured depth to water (DTW) in on-site and off-site wells, and collected groundwater samples from these wells for laboratory analysis. Work was performed in accordance with Blaine Tech's groundwater sampling protocol (Attachment A).

Calculated groundwater gradient and flow direction are presented on Plate 2. Historical and recent monitoring data are summarized in Table 1.

### LABORATORY ANALYSES AND RESULTS

Groundwater samples were submitted to Southern Petroleum Laboratories, Inc. (SPL), and Sequoia Analytical Laboratories, Inc. (Sequoia), California state-certified laboratories, under Chain of Custody protocol. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), methyl tertiary butyl ether (MTBE), total purgeable petroleum hydrocarbons as gasoline (TPPHg), and total extractable petroleum hydrocarbons as diesel (TEPHd), alkalinity, ferrous iron, nitrate, and sulfate using the methods listed in the notes in Table 1. The laboratory analysis reports and Chain of Custody records are attached (Attachment B). Cumulative results of laboratory analyses of groundwater samples are summarized in Table 1. Analytical results of groundwater samples collected during the recent sampling event are shown on Plate 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 94502-6577

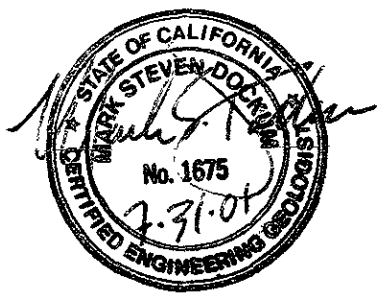
Mr. Stephen Hill  
California Regional Water Quality Control Board  
San Francisco Bay Region  
1515 Clay Street, Suite 1400  
Oakland, California 94612

Please call Mr. James F. Chappell, ERI's project manager for this site, at (415) 382-4323 with any questions regarding this project.

Sincerely,  
Environmental Resolutions, Inc.

*James F. Chappell*  
James F. Chappell  
Senior Staff Scientist

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



- Attachments: Table 1: Cumulative Groundwater Monitoring and Sampling Data
- 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

TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
 6600 East 14th Street  
 Oakland, California  
 (Page 1 of 8)

Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev >	TEPHd <	TPPHg .....	MTBE .....	B ug/L	T .....	E .....	X >	DO <	Ferrous Iron .....	Alkalinity mg/L	Nitrate .....	Sulfate >
MW1 (20.20)	3/15/91	NR	7.44	12.76	---	<50	---	<0.3	0.5	0.3	1.3	---	---	---	---	---
	1/15/92 (H,T)	NR	10.60	9.60	<300	<50	---	<0.5	0.7	<0.5	0.9	---	---	---	---	---
	3/23/92 (H,T)	NR	6.38	13.82	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/6/92	NR	7.55	12.65	---	---	---	---	---	---	---	---	---	---	---	---
	7/8/92 (H,T)	NR	9.85	10.35	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/13/92 (H,T)	NR	12.95	7.25	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/9/93	NLPH	7.38	12.82	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/4/93	NLPH	8.55	11.65	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/2/93	NLPH	10.85	9.35	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	11/16/93	NLPH	12.43	7.77	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	2/4/94	NLPH	9.10	11.10	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	4/29/94	NLPH	8.45	11.75	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	9/20/94	NLPH	10.73	9.47	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	12/14/94	NLPH	7.35	12.85	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	3/27/95	NLPH	7.06	13.14	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	5/18/95	NLPH	7.32	12.88	<50	<50	---	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	8/8/95	NLPH	9.24	10.96	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	11/7/95	NLPH	10.74	9.46	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	2/29/96	NLPH	6.80	13.40	53	<50	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
	5/10/96	NLPH	8.13	12.07	150	<50	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---
8/20/96	NLPH	9.58	10.62	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	
10/17/96	---	---	---	---	---	---	---	---	---	---	---	9.50	---	---	---	
11/27/96	---	---	---	---	---	---	---	---	---	---	---	11.54	---	---	---	
12/6/96	NLPH	8.10	12.10	---	---	---	---	---	---	---	---	10.05	---	---	---	
1/19/97	Abandoned	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
MW2 (19.15)	3/15/91 (H,T)	NR	9.05	10.10	120	1,700	---	190	2.6	12	64	---	---	---	---	
	1/15/92 (H,T)	NR	11.60	7.55	1,000	6,800	---	81	<10	320	170	---	---	---	---	
	3/23/92 (H,T)	NR	9.42	9.73	3,000	7,100	---	740	30	810	490	---	---	---	---	
	4/6/92	NR	9.09	10.06	---	---	---	---	---	---	---	---	---	---	---	
	7/8/92	NR	10.08	9.07	2,100	7,000	---	250	14	300	160	---	---	---	---	
	10/13/92	NR	12.06	7.09	1,900	3,200	---	97	2.6	97	53	---	---	---	---	
	3/9/93	sheen	9.71	9.44	---	---	---	---	---	---	---	---	---	---	---	
	6/4/93	sheen	9.40	9.75	---	---	---	---	---	---	---	---	---	---	---	
	9/2/93	sheen	10.46	8.69	3,700	11,000	2,500	210	18	260	59	---	---	---	---	
	11/16/93 (M*)	NLPH	11.44	7.71	3,300	8,500	---	75	27	51	32	---	---	---	---	
	2/4/94	NLPH	10.41	8.74	2,700	4,400	---	120	16	22	7.7	---	---	---	---	
	4/29/94	NLPH	9.51	9.64	2,000	380	---	5.9	0.6	1.6	<0.5	---	---	---	---	
	9/20/94	NLPH	10.57	8.58	1,800**	19,000	---	190	29***	110	27***	---	---	---	---	
	12/14/94	sheen	8.90	10.25	---	---	---	---	---	---	---	---	---	---	---	
	3/27/95	NLPH	7.72	11.43	1,700	6,300	---	210	15	250	43	---	---	---	---	
5/18/95	sheen	8.65	10.50	2,000#	6,000	---	180	9.9	220	55	---	---	---	---		
8/8/95	NLPH	9.67	9.48	2,700	5,300	36,000	110	<20	120	<20	---	---	---	---		
11/7/95	NLPH	10.49	8.66	1,800	6,400	24,000	120	11	95	38	---	---	---	---		
2/29/96	NLPH	8.45	10.70	2,500	<5,000	25,000	120	<50	120	<50	---	---	---	---		

Additional Analyses for general minerals and properties < \*

TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
 6600 East 14th Street  
 Oakland, California  
 (Page 2 of 8)

Well ID # (FOC)	Sampling Date	SUBJ < ..	DTW ... feet ..	Elev >	TEPHd <	TPPHg	MTBE	B ug/L	T	E	X .. >	DO <	Ferrous Iron	Alkalinity .. mg/L ..	Nitrate	Sulfate >
MW2 (cont.) (19.15)	5/10/96	NLPH	9.02	10.13	2,300	11,000	26,000	210	120	210	140	---	---	---	---	---
	8/20/96	NLPH	10.08	9.07	---	---	---	---	---	---	---	7.75	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	6.28	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	5.21	---	---	---	---
	12/6/96	NLPH	10.21	8.94	1,700	5,800	< 125	170	<25	38	<25	5.21	---	---	---	---
	1/17/97	NLPH	---	---	---	---	---	---	---	---	---	3.67	---	---	---	---
	2/25/97	NLPH	8.15	14.04	1,500	5,900	4,400	110	14	310	52	2.71	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	2.46	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	1.00	---	---	---	---
	5/21/97	NLPH	10.50	11.69	1,600	5,700	1,800	71	11	240	59	0.85	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	2.18	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	1.87	---	---	---	---
	8/6/97	NLPH	10.80	11.39	1,600	4,100	(1,900)	40	5.2	49	17	1.51	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	2.36	---	---	---	---
	10/7/97	NLPH	11.08	11.11	1,200	280	230	1.2	2.4	< 0.5	1.1	1.56	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	1.23	---	---	---	---
	1/16/98	NLPH	7.29	14.90	1,200	3,500	3,000	190	14	110	31	1.18	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	1.30	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	1.20	---	---	---	---
	4/17/98	NLPH	8.61	13.58	970	3,200	2,600	150	6.9	37	5.7	1.38	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	0.45	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	1.09	---	---	---	---
	7/17/98	NLPH	9.38	12.81	1,300	1,700	1,500	63	< 5.0	< 5.0	< 5.0	0.86	---	---	---	---
	10/16/98	NLPH	10.41	11.78	1,500	2,000	1,400	22	< 2.0	< 2.0	2.4	---	---	---	---	---
	1/15/99	NLPH	10.01	12.18	900	2,300	2,200	< 5.0	6.0	< 5.0	6.5	---	---	---	---	---
	4/23/99	NLPH	7.61	14.58	967	2,140	937	42.3	< 1.0	22.3	< 1.0	---	---	---	---	---
	7/30/99	NLPH	9.82	12.37	1,620	2,480	1,470/1,360*	100	< 10.0	< 10.0	< 10.0	---	---	---	---	---
8/12/99	NLPH	10.00	12.19	---	---	---	---	---	---	---	---	0.710	750	6.0	7.2	
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	1.02	---	---	---	---	
10/11/99	NLPH	10.46	11.73	1,700	2,900	1,300/1,400*	< 1.0	2.5	< 1.0	< 1.0	---	0.200	927	14.8	27.6	
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	19.71	---	---	---	---	
1/26-27/2000	NLPH	8.95	13.24	150/180**	160	420	12	< 0.5	< 0.5	< 0.5	4.10	0.0200	842	6.97	28.2	
MW3 (19.59)	3/15/91 (H,T)	NR	7.84	11.75	160	3,100	---	2.2	1.9	100	84	---	---	---	---	---
	1/15/92 (H,T)	NR	10.30	9.29	< 300	250	---	0.7	6.8	1.5	1.5	---	---	---	---	---
	3/23/92 (H,T)	NR	6.84	12.75	440	640	---	< 0.5	12	25	6.5	---	---	---	---	---
	4/6/92	NR	7.84	11.75	---	---	---	---	---	---	---	---	---	---	---	---
	7/8/92 (H,T)	NR	8.63	10.96	960	2,900	---	< 0.5	2.6	12	63.7	---	---	---	---	---
	10/13/92 (H)	NR	12.10	7.49	400	1,100	---	5.5	< 0.5	4.6	1.1	---	---	---	---	---
	3/9/93	sheen	9.05	10.54	---	---	---	---	---	---	---	---	---	---	---	---
	6/4/93	sheen	8.43	11.16	---	---	---	---	---	---	---	---	---	---	---	---
	9/2/93	NLPH	10.22	9.37	690	840	---	2.7	3.6	5.4	2.9	---	---	---	---	---
	11/16/93	NLPH	11.44	8.15	310	650	---	< 0.5	11	7.7	2.4	---	---	---	---	---
	2/4/94	NLPH	9.27	10.32	340	870	---	0.6	14	1.2	0.8	---	---	---	---	---
	4/29/94	NLPH	8.10	11.49	290	790	---	< 0.5	< 0.5	0.8	1	---	---	---	---	---
	9/20/94	NLPH	10.10	9.49	91**	1,900	---	< 0.5	< 0.5	11	4.4	---	---	---	---	---
	12/14/94	NLPH	8.00	11.59	190	1,700	---	17	22	< 0.5	< 0.5	---	---	---	---	---
3/27/95	NLPH	7.23	12.36	1,100	1,500	---	5.0	3.1	6.3	3.6	---	---	---	---	---	

TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
 6600 East 14th Street  
 Oakland, California  
 (Page 3 of 8)

Well ID #	Sampling Date	SUBJ	DTW	Elev	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nurate	Sulfate	
(TOC)			feet					ug/L					mg/L				
MW3 (cont ) (19 59)	5/18/95	NLPH	7.73	11.86	470#	1,000	---	<0.5	<0.5	4.1	0.94	---	---	---	---	---	
	8/8/95	NLPH	8.81	10.78	580	1,600	12	12	<0.5	2.4	0.63	---	---	---	---	---	
	11/7/95	NLPH	9.96	9.63	540	1,500	26	<2.5	2.9	<2.5	<2.5	---	---	---	---	---	
	2/29/96	NLPH	8.47	11.12	680	1,000	<25	<5.0	<5.0	<5.0	<5.0	---	---	---	---	---	
	5/10/96	NLPH	7.93	11.66	560	480	6.8	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---	
	8/28/96	NLPH	10.13	9.46	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	7.65	---	---	---	
	11/27/96	---	---	---	---	---	---	---	---	---	---	---	8.76	---	---	---	
	12/16/96	NLPH	9.21	10.38	450	970	19	<1.0	<1.0	<1.0	1.8	10.14	---	---	---	---	
	1/17/97	---	---	---	---	---	---	---	---	---	---	---	14.02	---	---	---	
	2/25/97	NLPH	8.34	14.28	410	990	47	10	0.85	0.86	1.5	10.69	---	---	---	---	
	3/13/97	---	---	---	---	---	---	---	---	---	---	---	8.68	---	---	---	
	4/16/97	---	---	---	---	---	---	---	---	---	---	---	18.73	---	---	---	
	5/21/97	NLPH	9.99	12.63	270	<50	<2.5	<0.5	<0.5	<0.5	<0.5	6.76	---	---	---	---	
	6/5/97	---	---	---	---	---	---	---	---	---	---	---	6.70	---	---	---	
	7/11/97	---	---	---	---	---	---	---	---	---	---	---	4.10	---	---	---	
	8/6/97	NLPH	10.29	12.33	310	650	<5.0	4.0	<1.0	<1.0	<1.0	10.59	---	---	---	---	
	9/23/97	---	---	---	---	---	---	---	---	---	---	---	8.62	---	---	---	
	10/7/97	NLPH	10.86	11.76	500	1,600	12	24	10	<2.0	3.5	11.81	---	---	---	---	
12/24/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
1/16/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
2/20/98	---	---	---	---	---	---	---	---	---	---	---	11.22	---	---	---	---	
3/26/98	---	---	---	---	---	---	---	---	---	---	---	10.55	---	---	---	---	
4/17/98	NLPH	7.56	15.06	220	710	21	<0.5	0.76	<0.5	<0.5	9.40	---	---	---	---		
5/13/98	---	---	---	---	---	---	---	---	---	---	---	0.22	---	---	---	---	
6/22/98	---	---	---	---	---	---	---	---	---	---	---	0.96	---	---	---	---	
7/17/98	NLPH	8.23	14.39	180	450	8.9	9.5	<1.0	<1.0	<1.0	0.94	---	---	---	---		
10/16/98	NLPH	9.75	12.87	320	520	5.1	<0.5	11	<0.5	0.93	---	---	---	---	---		
1/15/99	NLPH	8.83	13.79	600	190	12	<0.5	0.91	<0.5	0.7	---	---	---	---	---		
4/23/99	NLPH	7.11	15.51	194	406	2.71	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
7/30/99	NLPH	8.98	13.64	72.5	193	<2.50	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
8/12/99	NLPH	9.40	13.22	---	---	---	---	---	---	---	---	0.0440	330	48.1	47.4		
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	---	2.56	---	---	---		
10/11/99	NLPH	9.91	12.71	100	130	<1.0	<1.0	<1.0	<1.0	<1.0	---	0.0490	317	50.1	48.2		
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	---	1.41	---	---	---		
1/26-27/2000	NLPH	8.56	14.06	150/<50**	210	<2	1.6	<0.5	<0.5	<0.5	<0.5	2.00	0.0120	329	38.6	61.9	
MW4 (19 46)	4/6/92	NR	7.76	11.70	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	7/8/92	NR	9.56	9.90	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/13/92	NR	12.09	7.37	<80	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	3/9/93	NLPH	7.53	11.93	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	6/4/93	NLPH	8.50	10.96	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/2/93	NLPH	10.30	9.16	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/16/93*	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	2/4/94	NLPH	8.82	10.64	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	4/29/94 (D)	NLPH	8.55	10.91	100	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/20/94	NLPH	10.21	9.25	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
12/14/94	NLPH	7.04	12.42	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		

TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
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Well ID # (TOC)	Sampling Date	SUBJ	DTW feet	Elev >	TEPHd <	TPPHg >	MTBE >	B ug/L	T >	E >	X >	DO <	Ferrous Iron mg/L	Alkalinity mg/L	Nitrate >	Sulfate >
MW4 (cont.) (19 46)	3/27/95	NLPH	6.38	13.08	140	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/18/95	NLPH	7.56	11.90	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	8/8/95	NLPH	8.92	10.54	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/7/95	NLPH	10.30	9.16	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/29/96	NLPH	6.44	13.02	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/10/96	NLPH	8.15	11.31	<50	<50	<2.5	<0.5	0.84	<0.5	<0.5	2.3	---	---	---	---
	8/20/96	NLPH	9.27	10.19	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	1.63	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	1.54	---	---	---	---
	12/6/96	NLPH	7.76	11.70	---	---	---	---	---	---	---	2.33	---	---	---	---
	1/17/97	---	---	---	---	---	---	---	---	---	---	0.91	---	---	---	---
	2/25/97	NLPH	7.98	14.60	<50	<50	<2.5	<0.5	0.89	<0.5	1.8	1.03	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	1.06	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	4.03	---	---	---	---
	5/21/97	NLPH	9.03	13.55	---	---	---	---	---	---	---	0.90	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	1.46	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	1.31	---	---	---	---
	8/6/97	NLPH	9.74	12.84	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	1.46	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	1.50	---	---	---	---
	10/7/97	NLPH	10.06	12.52	---	---	---	---	---	---	---	1.65	---	---	---	---
12/24/97	---	---	---	---	---	---	---	---	---	---	1.96	---	---	---	---	
1/16/98	NLPH	5.01	17.57	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	1.68	---	---	---	---	
2/20/98	---	---	---	---	---	---	---	---	---	---	3.33	---	---	---	---	
3/26/98	---	---	---	---	---	---	---	---	---	---	1.65	---	---	---	---	
4/17/98	NLPH	7.21	15.37	---	---	---	---	---	---	---	3.10	---	---	---	---	
5/13/98	---	---	---	---	---	---	---	---	---	---	0.40	---	---	---	---	
6/22/98	---	---	---	---	---	---	---	---	---	---	1.20	---	---	---	---	
7/17/98	NLPH	8.46	14.12	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	1.84	---	---	---	---	
10/16/98	NLPH	9.84	12.74	---	---	---	---	---	---	---	---	---	---	---	---	
1/15/99	NLPH	11.33	11.25	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
4/23/99	NLPH	7.63	14.95	---	---	---	---	---	---	---	---	---	---	---	---	
7/30/99	NLPH	9.17	13.41	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	2.94	---	---	---	---	
10/11/99	NLPH	9.98	12.60	---	---	---	---	---	---	---	---	---	---	---	---	
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	1.36	---	---	---	---	
1/26-27/2000	NLPH	7.60	14.98	110/	<50**	<50	<2	<0.5	<0.5	<0.5	<0.5	3.00	---	---	---	
MW5 (16 95)	4/6/92	NR	10.66	6.29	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	7/8/92 *	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/13/92	NR	15.02	1.93	<50	69	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/9/93	NLPH	10.27	6.68	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/4/93	NLPH	11.35	5.60	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/2/93	NLPH	13.15	3.80	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/16/93	NLPH	14.35	2.60	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/4/94	NLPH	11.83	5.12	60	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	4/29/94	NLPH	11.15	5.80	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/20/94	NLPH	12.79	4.16	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	12/14/94	NLPH	9.95	7.00	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---

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 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
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Well ID #	Sampling	SUBJ	DTW	Elev	TEPHd	TPPHg	MTBE	B	T	E	X	DO	Ferrous Iron	Alkalinity	Nitrate	Sulfate
(TOC)	Date	<	feet	>	<	>		ug/L			>	<	mg/L	mg/L		>
MWS (cont) (16.95)	3/27/95	NLPH	9.09	7.86	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/18/95	NLPH	10.29	6.66	<50	<50	---	<0.5	4.6	0.65	2.8	---	---	---	---	---
	8/8/95	NLPH	11.13	5.82	51	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/7/95	NLPH	12.12	4.83	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
Additional Analyses for general minerals and properties < **																
(19.98)	2/29/96	NLPH	9.24	7.71	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	5/10/96	NLPH	10.71	6.24	<50	<50	<2.5	<0.5	<0.5	<0.5	1.6	---	---	---	---	---
	8/20/96	NLPH	11.45	5.50	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	11/27/96	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	12/6/96	NLPH	10.70	6.25	90	62	<2.5	1.2	6.5	1.7	11	---	---	---	---	---
	1/17/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	2/25/97	NLPH	10.49	6.46	90	<50	<2.5	1.4	2.4	0.95	7.4	---	---	---	---	---
	3/13/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	4/16/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	5/21/97	NLPH	11.31	8.67	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/5/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/11/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	8/6/97	NLPH	11.78	8.20	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/23/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/7/97	NLPH	12.26	7.72	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	12/24/97	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	1/16/98	NLPH	8.87	11.11	<50	<50	<2.5	<0.5	<0.5	<0.5	0.64	---	---	---	---	---
	2/20/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	3/26/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	4/17/98	NLPH	9.97	10.01	<50	<50	<2.5	0.9	2.2	0.81	3.6	---	---	---	---	---
	5/13/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	6/22/98	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	7/17/98	NLPH	11.00	8.98	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
10/16/98	NLPH	11.92	8.06	51	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
1/15/99	NLPH	9.01	10.97	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
4/23/99	NLPH	6.31	13.67	<50	<50	<2.0	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
7/30/99	NLPH	11.16	8.82	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
8/12/99	NLPH	11.48	8.50	---	---	---	---	---	---	---	---	---	0.110	510	<1.0	17.7
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	---	2.11	---	---	---	---
10/11/99	NLPH	12.01	7.97	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---	4.00	457	5.39	27.2
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	---	1.58	---	---	---	---
1/26-27/2000	NLPH	10.12	9.86	---	130 <50**	<50	<2	<0.5	<0.5	<0.5	<0.5	2.20	0.0340	503	<1.00	1.95
MW6 (18.79)	4/6/92 (H)	NR	8.29	10.50	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	7/8/92 (H,T)	NR	9.22	9.57	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	10/13/92	NR	11.51	7.28	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	3/9/93	NLPH	8.26	10.53	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	6/4/93	NLPH	8.90	9.89	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	9/2/93	NLPH	9.92	8.87	60	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	11/16/93	NLPH	10.65	8.14	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
	2/4/94	NLPH	9.26	9.53	80	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---
4/29/94	NLPH	8.33	10.46	110	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	



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 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
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Well ID #	Sampling Date	SUBJ	DTW feet	Elev < >	TEPHd < >	TPPHg < >	MTBE < >	B ug/L	T < >	E < >	X < >	DO < >	Ferrous Iron mg/L	Alkalinity mg/L	Nitrate < >	Sulfate < >	
MW6 (cont.) (18 79)	9/20/94	NLPH	9.23	9.56	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	12/14/94	sheen	7.87	10.92	---	---	---	---	---	---	---	---	---	---	---	---	
	3/27/95	NLPH	7.63	11.16	54	56	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/18/95	NLPH	8.00	10.79	71	56	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	8/8/95	NLPH	8.92	9.87	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/7/95	NLPH	9.77	9.02	<50	<50	4.7	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/29/96	NLPH	7.67	11.12	64	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/10/96	NLPH	8.33	10.46	110	<50	5.4	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	8/20/96	NLPH	9.16	9.63	---	---	---	---	---	---	---	---	---	---	---	---	---
	10/17/96	---	---	---	---	---	---	---	---	---	---	10.58	---	---	---	---	
	11/27/96	---	---	---	---	---	---	---	---	---	---	14.17	---	---	---	---	
	12/6/96	NLPH	8.55	10.24	68	<50	3.9	<0.5	<0.5	<0.5	<0.5	10.33	---	---	---	---	
	1/17/97	---	---	---	---	---	---	---	---	---	---	11.71	---	---	---	---	
	(21 84)	2/25/97	NLPH	8.42	13.42	67	<50	6.8	<0.5	<0.5	<0.5	<0.5	10.94	---	---	---	---
3/13/97		---	---	---	---	---	---	---	---	---	---	8.88	---	---	---	---	
4/16/97		---	---	---	---	---	---	---	---	---	---	15.20	---	---	---	---	
5/21/97		NLPH	9.16	12.68	82	<50	3.4	<0.5	<0.5	<0.5	<0.5	12.38	---	---	---	---	
6/5/97		---	---	---	---	---	---	---	---	---	---	10.99	---	---	---	---	
7/11/97		---	---	---	---	---	---	---	---	---	---	10.13	---	---	---	---	
8/6/97		NLPH	9.82	12.02	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	9.05	---	---	---	---	
9/23/97		---	---	---	---	---	---	---	---	---	---	6.22	---	---	---	---	
10/7/97		NLPH	9.85	11.99	89	<50	4.1	<0.5	<0.5	<0.5	<0.5	9.68	---	---	---	---	
12/24/97		---	---	---	---	---	---	---	---	---	---	2.78	---	---	---	---	
1/16/98		NLPH	5.50	16.34	93	<50	<2.5	<0.5	<0.5	<0.5	<0.5	2.73	---	---	---	---	
2/20/98		---	---	---	---	---	---	---	---	---	---	3.55	---	---	---	---	
3/26/98		---	---	---	---	---	---	---	---	---	---	3.90	---	---	---	---	
4/17/98		NLPH	8.12	13.72	59	<50	<2.5	<0.5	<0.5	<0.5	<0.5	5.08	---	---	---	---	
5/13/98	---	---	---	---	---	---	---	---	---	---	6.90	---	---	---	---		
6/22/98	---	---	---	---	---	---	---	---	---	---	8.96	---	---	---	---		
7/17/98	NLPH	8.81	13.03	63	<50	3.3	<0.5	<0.5	<0.5	<0.5	10.69	---	---	---	---		
10/16/98	NLPH	9.84	12.00	60	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
1/15/99	NLPH	9.55	12.29	<50	<50	3.7	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
4/23/99	NLPH	8.72	13.12	106	<50	14.4	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
7/30/99	NLPH	9.32	12.52	<50	<50	<2.50/2.50*	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	6.20	---	---	---	---		
10/11/99	NLPH	9.54	12.30	<50	<50	3.4/5*	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---		
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	9.09	---	---	---	---		
1/26-27/2000	NLPH	9.09	12.75	120/<80**	<50	2.7	<0.5	<0.5	<0.5	<0.5	2.30	---	---	---	---		
MW7 (19 23)	4/6/92	NR	8.34	10.89	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	7/8/92 *	NR	10.30	8.93	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/13/92	NR	12.91	6.32	94	670	---	0.8	<0.5	<0.5	2.5	---	---	---	---	---	
	3/9/93	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
	6/4/93	NLPH	8.68	10.55	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	9/2/93	NLPH	10.80	8.43	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/16/93	NLPH	12.38	6.85	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/4/94	NLPH	9.28	9.95	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
4/29/94	NLPH	9.19	10.04	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		

TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
 6600 East 14th Street  
 Oakland, California  
 (Page 7 of 8)

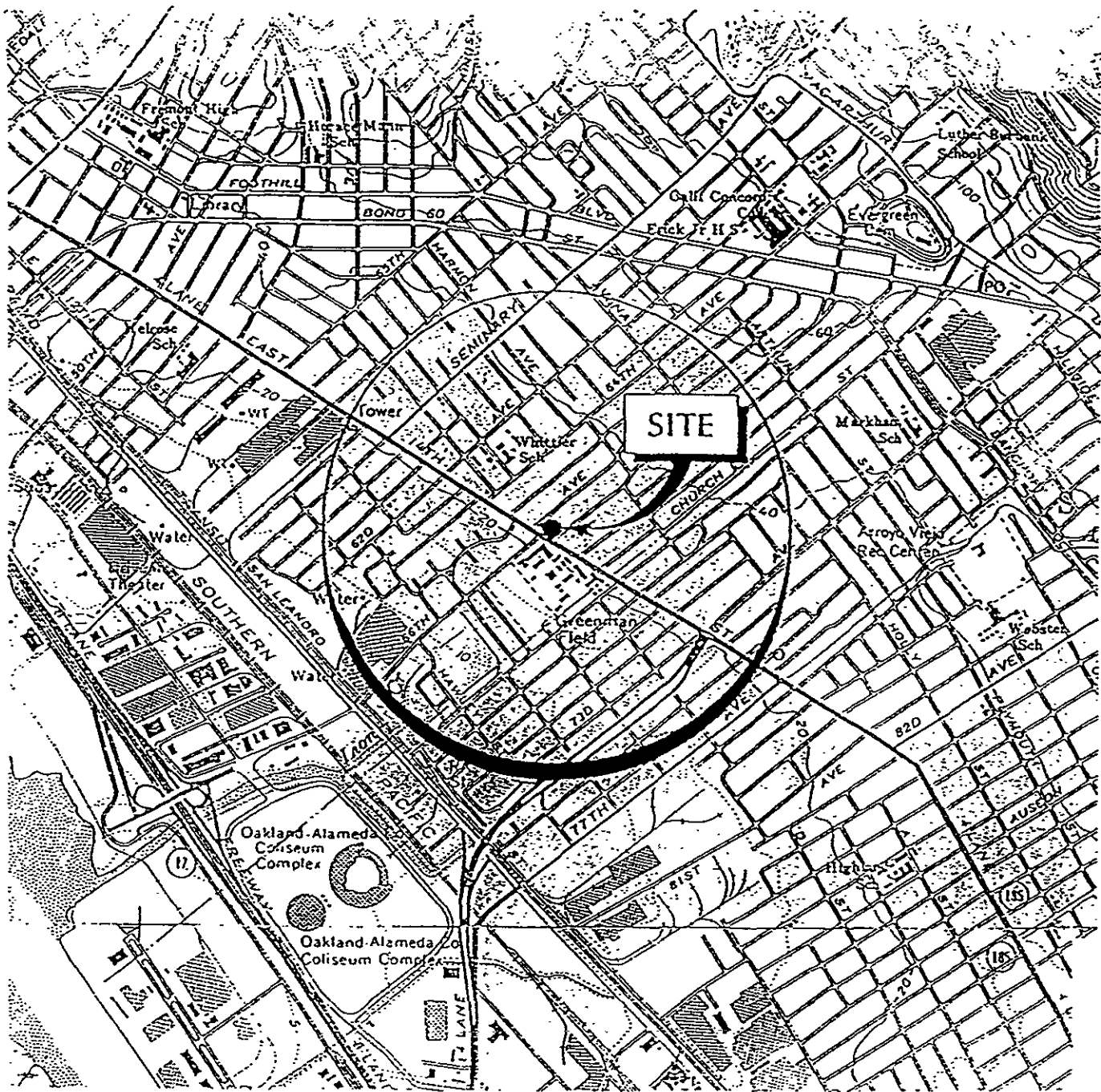
Well ID # (TOC)	Sampling Date	SUBJ < ... >	DTW feet	Elev .. >	TEPHd < ... >	TPPHg	MTBE	B ug/L	T	E	X .. >	DO < ... >	Ferrous Iron	Alkalinity mg/L	Nitrate	Sulfate .. >	
MW7 (cont.) (19 23)	9/20/94	NLPH	10.85	8.38	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	12/14/94	NLPH	8.44	10.79	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	3/27/95	NLPH	7.54	11.69	280	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/18/95	NLPH	8.11	11.12	<50	<50	---	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	8/8/95	NLPH	9.48	9.75	52	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	11/7/95	NLPH	10.83	8.40	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	2/29/96	NLPH	7.70	11.53	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	5/10/96	NLPH	8.76	10.47	<50	<50	<2.5	<0.5	<0.5	<0.5	2.1	---	---	---	---	---	
	8/20/96	NLPH	9.91	9.32	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
	10/17/96	---	---	---	---	---	---	---	---	---	---	1.48	---	---	---	---	
	11/27/96	---	---	---	---	---	---	---	---	---	---	2.71	---	---	---	---	
	12/6/96	NLPH	8.90	10.33	---	---	---	---	---	---	---	8.90	---	---	---	---	
	1/19/97	Abandoned	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
	MW8 (22.60)	1/17/97	---	---	---	---	---	---	---	---	---	---	1.39	---	---	---	---
		2/25/97	NLPH	7.93	14.67	<50	69	30	<0.5	<0.5	<0.5	<0.5	1.82	---	---	---	---
3/13/97		---	---	---	---	---	---	---	---	---	---	1.58	---	---	---	---	
4/16/97		---	---	---	---	---	---	---	---	---	---	0.81	---	---	---	---	
5/21/97		NLPH	9.04	13.56	<50	<50	3.5	<0.5	<0.5	<0.5	<0.5	0.74	---	---	---	---	
6/5/97		---	---	---	---	---	---	---	---	---	---	0.55	---	---	---	---	
7/11/97		---	---	---	---	---	---	---	---	---	---	0.85	---	---	---	---	
8/6/97		NLPH	9.90	12.70	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	0.77	---	---	---	---	
9/23/97		---	---	---	---	---	---	---	---	---	---	0.75	---	---	---	---	
10/7/97		NLPH	10.23	12.37	<50	100	4.9	1.1	<0.5	<0.5	<0.5	0.82	---	---	---	---	
12/24/97		---	---	---	---	---	---	---	---	---	---	0.86	---	---	---	---	
1/16/98		NLPH	4.39	18.21	81	180	9.6	2.8	<0.5	<0.5	0.92	0.94	---	---	---	---	
2/20/98		---	---	---	---	---	---	---	---	---	---	0.61	---	---	---	---	
3/26/98		---	---	---	---	---	---	---	---	---	---	0.53	---	---	---	---	
4/17/98		NLPH	---	---	74	370	27	<0.5	0.94	<0.5	0.79	2.65	---	---	---	---	
5/13/98		---	---	---	---	---	---	---	---	---	---	0.25	---	---	---	---	
6/22/98		---	---	---	---	---	---	---	---	---	---	1.38	---	---	---	---	
7/17/98		NLPH	8.02	14.58	<50	<50	3.3	<0.5	<0.5	<0.5	<0.5	2.09	---	---	---	---	
10/16/98		NLPH	9.78	12.82	<50	<50	<2.5	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---	
1/15/99		NLPH	8.40	14.20	<50	<50	<2.5	<0.5	0.97	<0.5	<0.5	---	---	---	---	---	
4/23/99	NLPH	7.35	15.25	70.1	111	3.45	<0.5	<0.5	<0.5	<0.5	---	---	---	---	---		
7/30/99	NLPH	8.86	13.74	<50	89.4	<2.5	<0.5	2.7	<0.5	<0.5	---	---	---	---	---		
9/3/99	NLPH	---	---	---	---	---	---	---	---	---	2.45	---	---	---	---		
10/11/99	NLPH	10.04	12.56	<50	<50	<1.0	<1.0	<1.0	<1.0	<1.0	---	---	---	---	---		
10/14/99	NLPH	---	---	---	---	---	---	---	---	---	0.69	---	---	---	---		
1/26-27/2000	NLPH	5.52	17.08	90/60**	<50	<2	<0.5	<0.5	<0.5	<0.5	2.10	---	---	---	---		

TABLE 1  
 CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA  
 Former Exxon Service Station 7-0236  
 6600 East 14th Street  
 Oakland, California  
 (Page 8 of 8)

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Notes:

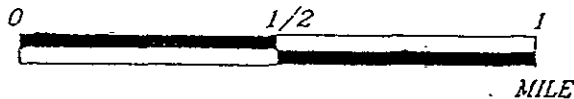
SUBJ	=	Results of subjective evaluation, liquid-phase hydrocarbon thickness (HT) in feet
NLPH	=	No liquid-phase hydrocarbons present in well
TOC	=	Elevation of top of well casing, relative to mean sea level
DTW	=	Depth to water
Elev.	=	Elevation of groundwater. If liquid-phase hydrocarbons present, elevation adjusted using TOC - [DTW - (PT x 0.8)]
TBPHd	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 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.
*	=	Methyl tertiary butyl ether analyzed using EPA method 8260
**	=	Total extractable petroleum hydrocarbons as diesel analyzed using EPA method 8015B
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA method 5030/8020
Nitrate	=	Nitrate as NO <sub>3</sub> analyzed using EPA Method 300.
Sulfate	=	Sulfate as SO <sub>4</sub> analyzed using EPA Method 300
Ferrous Iron	=	Ferrous Iron analyzed using EPA Method 6000/7000
Alkalinity	=	Total alkalinity analyzed using APHA/EPA methods
...	=	Not measured/not analyzed
<	=	Less than the indicated detection limit shown by the laboratory
DO	=	Dissolved Oxygen
**	=	Lighter hydrocarbons contribute to diesel range quantitation.
***	=	Results obtained past technical holding time (10/08/94) due to dilution requirements
C	=	High boiling point hydrocarbons are present in sample.
D	=	Sample pattern does not match diesel standard pattern.
H	=	EPA Method 8010 compounds not detected at or above their respective laboratory detection limits Exceptions. MW2, 03/15/91, Methylene Chloride detected at 1 ppb MW3, 03/15/91, Methylene Chloride detected at 21 ppb
M*	=	A compound suspected to be methyl tertiary butyl ether was present
T	=	Total Oil and Grease (TOG) using Standard Method 5520 not detected at or above the laboratory detection limit of 5,000 ppb
<*	=	Less than stated laboratory detection limits except 490 ppm bicarbonate, 37 ppm calcium, 31 ppm chloride, 390 ppm hardness, 790 ppb iron, 60 ppm magnesium, 4,700 ppb manganese, 1.1 ppm sodium, 61 ppm sulfate, 540 ppm TDS, 730 umhos/cm conductivity, pH=6.9,
<**	=	Less than the stated laboratory detection limits except 200 ppm bicarbonate, 23 ppm calcium, 21 ppm chloride, 78 ppb copper, 190 ppm hardness, 49,000 ppb iron, 44 ppm magnesium, 4,200 ppb manganese, 3.9 ppm potassium, 52 ppm sodium, 60 ppm sulfate, 390 ppm TDS.
ug/L	=	micrograms per liter.
ppm	=	parts per million
mg/L	=	Milligrams per liter



20090001



APPROXIMATE SCALE



Source: U.S.G.S. 7.5 minute topographic quadrangle map Oakland East and San Leandro, Calif. 1980

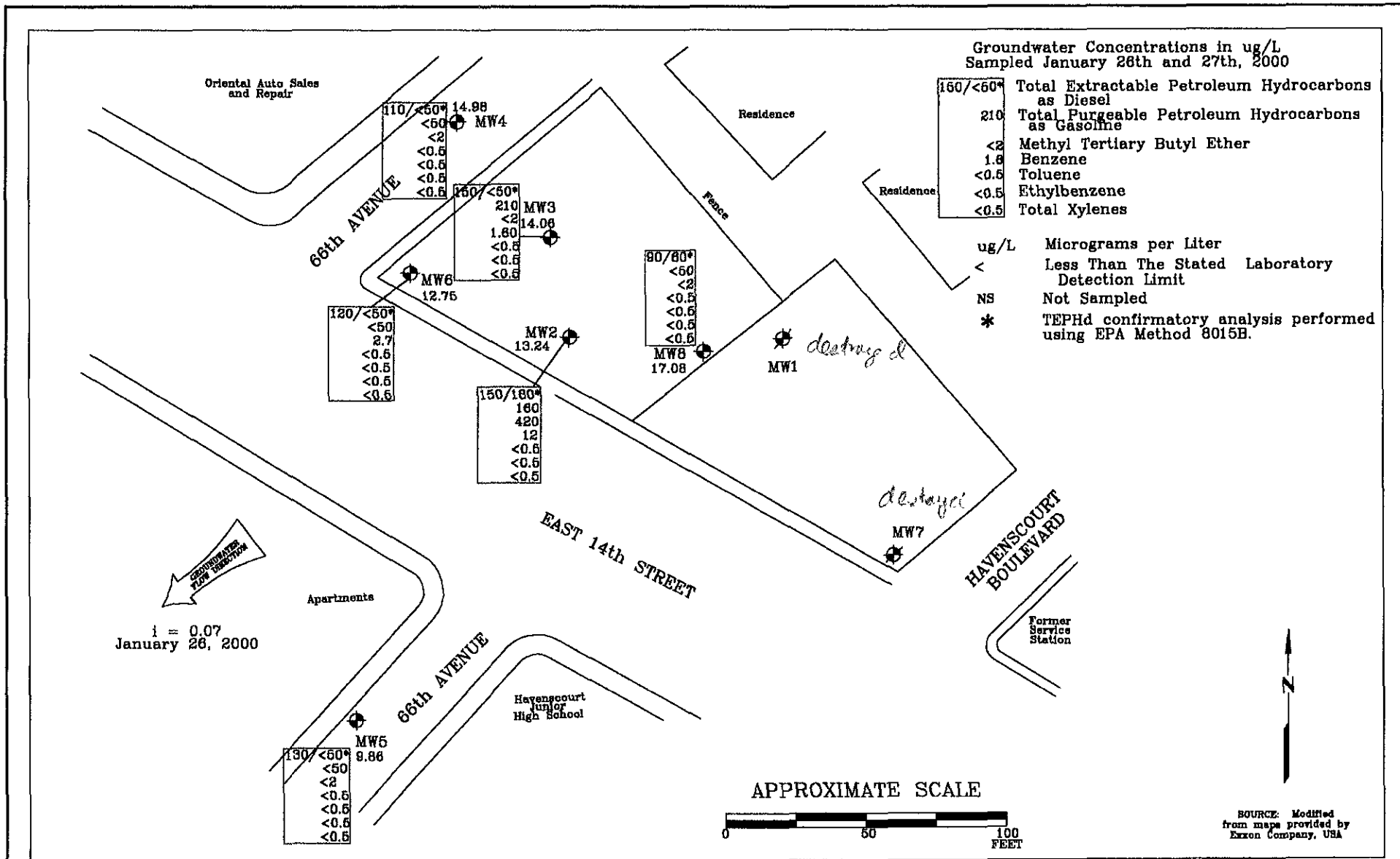


PROJECT ERI 2009

**SITE VICINITY MAP**  
 FORMER EXXON SERVICE STATION 7-0236  
 6600 East 14th Street  
 Oakland, California

PLATE

1



FN 200800SA



**GENERALIZED SITE PLAN**

FORMER  
 EXXON SERVICE STATION 7-0236  
 6600 East 14th Street  
 Oakland, California

EXPLANATION	
MW8	Groundwater Monitoring Well
17.08	Groundwater elevation in feet above mean sea level
MW7	Groundwater Monitoring Well (Destroyed)
i = Interpreted Groundwater Gradient	

**PROJECT NO.**

2009

**PLATE**

2

February 4, 2000

**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. Each wellcap is removed prior to gauging to allow the water level to equilibrate for at least 15 minutes.

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 dewateres 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 store 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.

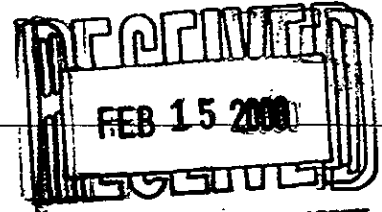
**ATTACHMENT B**

**LABORATORY ANALYSIS REPORTS  
AND CHAIN OF CUSTODY RECORDS**



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

Case Narrative for:  
EXXON Company U.S.A.



Certificate of Analysis Number:  
**00010699**

<b>Report To:</b>  Environmental Resolution, Inc. John Skance 73 Digital Drive Suite 100  Novato California 94949- ph: (415) 382-9105      fax: (415) 382-1856	<b>Project Name:</b> 2009 <b>Site:</b> 7-0236,19908584 <b>Site Address:</b> 6600 East 14th St. Oakland CA <b>PO Number:</b> <b>State:</b> California <b>State Cert. No.:</b> 1903 <b>Date Reported:</b> 2/4/00
---	---

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

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

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

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

*Sonia West*  
West, Sonia  
Senior Project Manager

2/4/00

Date



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

EXXON Company U.S.A.

Certificate of Analysis Number:  
**00010699**

<b>Report To:</b> Environmental Resolution, Inc. John Skance 73 Digital Drive Suite 100  Novato California 94949- ph: (415) 382-9105      fax: (415) 382-1856	<b>Project Name:</b> 2009  <b>Site:</b> 7-0236,19908584  <b>Site Address:</b> 6600 East 14th St.  Oakland                      CA  <b>PO Number:</b>  <b>State:</b> California  <b>State Cert. No.:</b> 1903  <b>Date Reported:</b> 02/04/2000
<b>Fax To:</b> Environmental Resolution, Inc. John Skance                      fax: (415) 382-1856	

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
MV-2	00010699-01	Water	01/27/2000 12:23:00 PM	01/29/2000 10:00:00 AM		<input type="checkbox"/>
MV-3	00010699-02	Water	01/27/2000 11:59:00 AM	01/29/2000 10:00:00 AM		<input type="checkbox"/>
MW-4	00010699-03	Water	01/27/2000 10:13:00 AM	01/29/2000 10:00:00 AM		<input type="checkbox"/>
MV-5	00010699-04	Water	01/27/2000 10:49:00 AM	01/29/2000 10:00:00 AM		<input type="checkbox"/>
MV-6	00010699-05	Water	01/27/2000 11:39:00 AM	01/29/2000 10:00:00 AM		<input type="checkbox"/>
MW-8	00010699-06	Water	01/27/2000 11:18:00 AM	01/29/2000 10:00:00 AM		<input type="checkbox"/>
Trip Blank	00010699-07	Water	01/27/2000	01/29/2000 10:00:00 AM		<input type="checkbox"/>

*Sonia West*  
 West, Sonia  
 Senior Project Manager

02/04/2000  
 Date

Joel Grice  
 Laboratory Director  
  
 Ted Yen  
 Quality Assurance Officer



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

Client Sample ID MW-2 Collected: 01/27/2000 12:2 SPL Sample ID: 00010699-01

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	150	50	1		02/03/00 02:20	RR	179365
Surr: Pentacosane	77.0 %	18-120	1		02/03/00 02:20	RR	179365

Run ID/Seq #: HP V\_000202A-179365

Prep Method	Prep Date	Prep Initials
SW3510B	01/31/2000 08:47	KL

<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: ug/L</b>		
Gasoline Range Organics	160	50	1		02/01/00 02:47	DL	176356
Surr: 1,4-Difluorobenzene	99.7 %	62-144	1		02/01/00 02:47	DL	176356
Surr: 4-Bromofluorobenzene	83.0 %	44-153	1		02/01/00 02:47	DL	176356

<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	12	0.5	1		02/01/00 02:47	DL	176340
Ethylbenzene	ND	0.5	1		02/01/00 02:47	DL	176340
Methyl tert-butyl ether	420	2	1		02/01/00 02:47	DL	176340
Toluene	ND	0.5	1		02/01/00 02:47	DL	176340
m,p-Xylene	ND	0.5	1		02/01/00 02:47	DL	176340
o-Xylene	ND	0.5	1		02/01/00 02:47	DL	176340
Xylenes, Total	ND	0.5	1		02/01/00 02:47	DL	176340
Surr: 1,4-Difluorobenzene	86.9 %	72-137	1		02/01/00 02:47	DL	176340
Surr: 4-Bromofluorobenzene	89.1 %	48-156	1		02/01/00 02:47	DL	176340

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



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

Client Sample ID MW-3 Collected: 01/27/2000 11:5 SPL Sample ID: 00010699-02

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	150	50	1		02/03/00 02:58	RR	179366
Surr: Pentacosane	81.8 %	18-120	1		02/03/00 02:58	RR	179366

Run ID/Seq #: HP\_V\_000202A-179366

Prep Method	Prep Date	Prep Initials
SW3510B	01/31/2000 08:47	KL

<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: ug/L</b>		
Gasoline Range Organics	210	50	1		02/01/00 03:14	DL	176357
Surr: 1,4-Difluorobenzene	96.4 %	62-144	1		02/01/00 03:14	DL	176357
Surr: 4-Bromofluorobenzene	87.8 %	44-153	1		02/01/00 03:14	DL	176357

<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	1.6	0.5	1		02/01/00 03:14	DL	176341
Ethylbenzene	ND	0.5	1		02/01/00 03:14	DL	176341
Methyl tert-butyl ether	ND	2	1		02/01/00 03:14	DL	176341
Toluene	ND	0.5	1		02/01/00 03:14	DL	176341
m,p-Xylene	ND	0.5	1		02/01/00 03:14	DL	176341
o-Xylene	ND	0.5	1		02/01/00 03:14	DL	176341
Xylenes, Total	ND	0.5	1		02/01/00 03:14	DL	176341
Surr: 1,4-Difluorobenzene	82.6 %	72-137	1		02/01/00 03:14	DL	176341
Surr: 4-Bromofluorobenzene	93.6 %	48-156	1		02/01/00 03:14	DL	176341

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



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Client Sample ID MW-4 Collected: 01/27/2000 10:1 SPL Sample ID: 00010699-03

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	110	50	1		02/03/00 03:36	RR	179367
Surr: Pentacosane	54.2 %	18-120	1		02/03/00 03:36	RR	179367

Run ID/Seq #: HP\_V\_000202A-179367

Prep Method	Prep Date	Prep Initials
SW3510B	01/31/2000 08:47	KL

<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: ug/L</b>		
Gasoline Range Organics	ND	50	1		02/01/00 03:42	DL	176358
Surr: 1,4-Difluorobenzene	95.9 %	62-144	1		02/01/00 03:42	DL	176358
Surr: 4-Bromofluorobenzene	82.8 %	44-153	1		02/01/00 03:42	DL	176358

<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	0.5	1		02/01/00 03:42	DL	176342
Ethylbenzene	ND	0.5	1		02/01/00 03:42	DL	176342
Methyl tert-butyl ether	ND	2	1		02/01/00 03:42	DL	176342
Toluene	ND	0.5	1		02/01/00 03:42	DL	176342
m,p-Xylene	ND	0.5	1		02/01/00 03:42	DL	176342
o-Xylene	ND	0.5	1		02/01/00 03:42	DL	176342
Xylenes, Total	ND	0.5	1		02/01/00 03:42	DL	176342
Surr: 1,4-Difluorobenzene	88.4 %	72-137	1		02/01/00 03:42	DL	176342
Surr: 4-Bromofluorobenzene	93.3 %	48-156	1		02/01/00 03:42	DL	176342

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

02/04/2000 10:46:27 AM





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 (713) 660-0901

Client Sample ID MW-5 Collected: 01/27/2000 10:4 SPL Sample ID: 00010699-04

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	130	50	1		02/03/00 04:14	RR	179368
Surr: Pentacosane	67.0 %	18-120	1		02/03/00 04:14	RR	179368

Run ID/Seq #: HP\_V\_000202A-179368

Prep Method	Prep Date	Prep Initials
SW3510B	01/31/2000 08:47	KL

<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: ug/L</b>		
Gasoline Range Organics	ND	50	1		02/01/00 04:09	DL	176359
Surr: 1,4-Difluorobenzene	96.3 %	62-144	1		02/01/00 04:09	DL	176359
Surr: 4-Bromofluorobenzene	82.4 %	44-153	1		02/01/00 04:09	DL	176359

<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	0.5	1		02/01/00 04:09	DL	176343
Ethylbenzene	ND	0.5	1		02/01/00 04:09	DL	176343
Methyl tert-butyl ether	ND	2	1		02/01/00 04:09	DL	176343
Toluene	ND	0.5	1		02/01/00 04:09	DL	176343
m,p-Xylene	ND	0.5	1		02/01/00 04:09	DL	176343
o-Xylene	ND	0.5	1		02/01/00 04:09	DL	176343
Xylenes, Total	ND	0.5	1		02/01/00 04:09	DL	176343
Surr: 1,4-Difluorobenzene	86.0 %	72-137	1		02/01/00 04:09	DL	176343
Surr: 4-Bromofluorobenzene	92.7 %	48-156	1		02/01/00 04:09	DL	176343

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

02/04/2000 10:46:28 AM



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Client Sample ID MW-6 Collected: 01/27/2000 11:3 SPL Sample ID: 00010699-05

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	120	56	1		02/03/00 04:53	RR	179369
Surr: Pentacosane	69.3	% 18-120	1		02/03/00 04:53	RR	179369

Run ID/Seq #: HP\_V\_000202A-179369

Prep Method	Prep Date	Prep Initials
SW3510B	01/31/2000 08:47	KL

<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: ug/L</b>		
Gasoline Range Organics	ND	50	1		02/01/00 04:37	DL	176360
Surr: 1,4-Difluorobenzene	97.0	% 62-144	1		02/01/00 04:37	DL	176360
Surr: 4-Bromofluorobenzene	82.1	% 44-153	1		02/01/00 04:37	DL	176360

<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	0.5	1		02/01/00 04:37	DL	176344
Ethylbenzene	ND	0.5	1		02/01/00 04:37	DL	176344
Methyl tert-butyl ether	2.7	2	1		02/01/00 04:37	DL	176344
Toluene	ND	0.5	1		02/01/00 04:37	DL	176344
m,p-Xylene	ND	0.5	1		02/01/00 04:37	DL	176344
o-Xylene	ND	0.5	1		02/01/00 04:37	DL	176344
Xylenes, Total	ND	0.5	1		02/01/00 04:37	DL	176344
Surr: 1,4-Difluorobenzene	89.0	% 72-137	1		02/01/00 04:37	DL	176344
Surr: 4-Bromofluorobenzene	92.4	% 48-156	1		02/01/00 04:37	DL	176344

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

02/04/2000 10:46:28 AM



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Client Sample ID MW-8 Collected: 01/27/2000 11:1 SPL Sample ID: 00010699-06

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	90	50	1		02/03/00 05:31	RR	179370
Surr: Pentacosane	60.6 %	18-120	1		02/03/00 05:31	RR	179370

Run ID/Seq #: HP\_V\_000202A-179370

Prep Method	Prep Date	Prep Initials
SW3510B	01/31/2000 08:47	KL

<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA_GRO</b>	<b>Units: ug/L</b>		
Gasoline Range Organics	ND	50	1		02/01/00 05:04	DL	176361
Surr: 1,4-Difluorobenzene	88.6 %	62-144	1		02/01/00 05:04	DL	176361
Surr: 4-Bromofluorobenzene	82.4 %	44-153	1		02/01/00 05:04	DL	176361

<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	0.5	1		02/01/00 05:04	DL	176345
Ethylbenzene	ND	0.5	1		02/01/00 05:04	DL	176345
Methyl tert-butyl ether	ND	2	1		02/01/00 05:04	DL	176345
Toluene	ND	0.5	1		02/01/00 05:04	DL	176345
m,p-Xylene	ND	0.5	1		02/01/00 05:04	DL	176345
o-Xylene	ND	0.5	1		02/01/00 05:04	DL	176345
Xylenes, Total	ND	0.5	1		02/01/00 05:04	DL	176345
Surr: 1,4-Difluorobenzene	88.6 %	72-137	1		02/01/00 05:04	DL	176345
Surr: 4-Bromofluorobenzene	90.7 %	48-156	1		02/01/00 05:04	DL	176345

Qualifiers: ND/U - Not Detected at the Reporting Limit  
 B - Analyte detected in the associated Method Blank  
 \* - Surrogate Recovery Outside Advisable QC Limits  
 J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)  
 D - Surrogate Recovery Unreportable due to Dilution



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Client Sample ID Trip Blank      Collected: 01/27/2000      SPL Sample ID: 00010699-07

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>GASOLINE RANGE ORGANICS</b>			<b>MCL</b>	<b>CA GRO</b>	<b>Units: ug/L</b>		
Gasoline Range Organics	ND	50	1		02/01/00 02:20	DL	176355
Surr: 1,4-Difluorobenzene	95.7	% 62-144	1		02/01/00 02:20	DL	176355
Surr: 4-Bromofluorobenzene	82.1	% 44-153	1		02/01/00 02:20	DL	176355
<b>PURGEABLE AROMATICS</b>			<b>MCL</b>	<b>SW8021B</b>	<b>Units: ug/L</b>		
Benzene	ND	0.5	1		02/01/00 02:20	DL	176339
Ethylbenzene	ND	0.5	1		02/01/00 02:20	DL	176339
Methyl tert-butyl ether	ND	2	1		02/01/00 02:20	DL	176339
Toluene	ND	0.5	1		02/01/00 02:20	DL	176339
m,p-Xylene	ND	0.5	1		02/01/00 02:20	DL	176339
o-Xylene	ND	0.5	1		02/01/00 02:20	DL	176339
Xylenes, Total	ND	0.5	1		02/01/00 02:20	DL	176339
Surr: 1,4-Difluorobenzene	89.2	% 72-137	1		02/01/00 02:20	DL	176339
Surr: 4-Bromofluorobenzene	89.1	% 48-156	1		02/01/00 02:20	DL	176339

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

02/04/2000 10:46:30 AM

*Quality Control Documentation*



Quality Control Report

EXXON Company U.S.A.

2009

Analysis: Diesel Range Organics  
 Method: SW8015B

WorkOrder: 00010699  
 Lab Batch ID: 2901

Method Blank

Samples in Analytical Batch:

RunID: HP\_V\_000202A-179353 Units: mg/L  
 Analysis Date: 02/02/2000 18:04 Analyst: RR  
 Preparation Date: 01/31/2000 08:47 Prep By: KL Method SW3510B

Lab Sample ID	Client Sample ID
00010699-01B	MW-2
00010699-02B	MW-3
00010699-03B	MW-4
00010699-04B	MW-5
00010699-05B	MW-6
00010699-06B	MW-8

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: Pentacosane	91.2	18-120

Laboratory Control Sample (LCS)

RunID: HP\_V\_000202A-179354 Units: mg/L  
 Analysis Date: 02/02/2000 18:42 Analyst: RR  
 Preparation Date: 01/31/2000 08:47 Prep By: KL Method SW3510B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	2.5	2.6	105	44	141

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

Sample Spiked: 00010677-01  
 RunID: HP\_V\_000202A-179356 Units: mg/L  
 Analysis Date: 02/02/2000 19:58 Analyst: RR  
 Preparation Date: 01/31/2000 08:47 Prep By: KL Method SW3510B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	2.5	1.9	69.6	2.5	2.2	80.8	14.9	39	13	130

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



Quality Control Report

EXXON Company U.S.A.

2009

Analysis: Purgeable Aromatics  
Method: SW8021B

WorkOrder: 00010699  
Lab Batch ID: R8433

Method Blank

Samples in Analytical Batch:

RunID: HP\_W\_000131A-176321 Units: ug/L  
Analysis Date: 01/31/2000 17:12 Analyst: DL

Lab Sample ID	Client Sample ID
00010699-01A	MW-2
00010699-02A	MW-3
00010699-03A	MW-4
00010699-04A	MW-5
00010699-05A	MW-6
00010699-06A	MW-8
00010699-07A	Trip Blank

Analyte	Result	Rep Limit
Benzene	ND	0.50
Ethylbenzene	ND	0.50
Methyl tert-butyl ether	ND	2.0
Toluene	ND	0.50
m,p-Xylene	ND	0.50
o-Xylene	ND	0.50
Xylenes, Total	ND	0.50
Surr: 1,4-Difluorobenzene	87.1	72-137
Surr: 4-Bromofluorobenzene	91.5	48-156

Laboratory Control Sample (LCS)

RunID: HP\_W\_000131A-176384 Units: ug/L  
Analysis Date: 01/31/2000 16:15 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	50	53	106	61	119
Ethylbenzene	50	52	103	70	118
Methyl tert-butyl ether	50	53	106	72	128
Toluene	50	52	104	65	125
m,p-Xylene	100	100	104	72	116
o-Xylene	50	52	103	72	117
Xylenes, Total	150	152	101	72	117

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

Sample Spiked: 00010626-02  
RunID: HP\_W\_000131A-176324 Units: ug/L  
Analysis Date: 01/31/2000 18:07 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	22	108	20	23	115	6.91	21	32	164
Ethylbenzene	ND	20	21	102	20	22	109	7.16	19	52	142
Methyl tert-butyl ether	ND	20	26	132	20	30	149	11.9	20	39	150
Toluene	ND	20	21	106	20	23	113	6.62	20	38	159

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



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Quality Control Report  
 EXXON Company U.S.A.  
 2009

Analysis: Purgeable Aromatics  
 Method: SW8021B

WorkOrder: 00010699  
 Lab Batch ID: R8433

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

Sample Spiked: 00010626-02  
 RunID: HP\_W\_000131A-176324 Units: ug/L  
 Analysis Date: 01/31/2000 18:07 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	1.2	40	42	102	40	45	109	7.09	17	53	144
o-Xylene	0.57	20	20	99.4	20	22	108	7.82	18	53	143
Xylenes, Total	1.2	60	62	101	60	67	110	7.90	18	53	144

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





Quality Control Report  
 EXXON Company U.S.A.  
 2009

Analysis: Gasoline Range Organics  
 Method: CA\_GRO

WorkOrder: 00010699  
 Lab Batch ID: R8434

Method Blank

Samples in Analytical Batch:

RunID: HP\_W\_000131B-176353 Units: mg/L  
 Analysis Date: 02/01/2000 01:25 Analyst: DL

Lab Sample ID	Client Sample ID
00010699-01A	MW-2
00010699-02A	MW-3
00010699-03A	MW-4
00010699-04A	MW-5
00010699-05A	MW-6
00010699-06A	MW-8
00010699-07A	Trip Blank

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.050
Surr: 1,4-Difluorobenzene	98.6	62-144
Surr: 4-Bromofluorobenzene	83.0	44-153

Laboratory Control Sample (LCS)

RunID: HP\_W\_000131B-176350 Units: mg/L  
 Analysis Date: 01/31/2000 23:35 Analyst: DL

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1	0.79	79	64	131

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

Sample Spiked: 00010699-01  
 RunID: HP\_W\_000131B-176351 Units: mg/L  
 Analysis Date: 02/01/2000 00:30 Analyst: DL

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	0.16	0.9	1.2	110	0.9	1.1	104	6.34	36	36	160

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

*Chain of Custody  
And  
Sample Receipt Checklist*

# EXXON COMPANY, USA.

*SPL*

*00010699*

CHAIN OF CUSTODY RECORD NO. \_\_\_\_\_ Page 1 of 1

Exxon Engineer: Darin Rouse Phone: (925) 246-8768  
 Consultant Co. Name: ERI Contact: John Skance  
 Address: 73 Digital Dr, Suite 100 Phone: (415) 382-5996  
Novato, CA 94949 Fax: (415) 382-1856

RAS #: 7-0236 Facility/State ID # (TN Only): \_\_\_\_\_

AFE # (Terminal Only): \_\_\_\_\_ Consultant Project #: 2009

Location: 6600 East 14th St. (City): Oakland (State): CA  
 EE  C & M  SDT

Consultant Work Release #: 19908584 BTS# 000/27 R-1

Sampled By: Blaine Tech Services, Inc.

### ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)

OTHER

BTEX 8020 <input checked="" type="checkbox"/>	WITH MIBTEX <input checked="" type="checkbox"/>	602 <input type="checkbox"/>	PURGEABLE HALOCARBON 8010 <input type="checkbox"/>	601 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/>	O & G IR 413.1 <input type="checkbox"/>	GRAY 413.2 <input type="checkbox"/>	8015 DRO <input checked="" type="checkbox"/>	VOL 8240 <input type="checkbox"/>	624 <input type="checkbox"/>	SEMI-VOL 8270 <input type="checkbox"/>	625 <input type="checkbox"/>	PNA/PAH 8100 <input type="checkbox"/>	8310 <input type="checkbox"/>	8270 <input type="checkbox"/>	PCB / PEST 8080 <input type="checkbox"/>	PCB ONLY <input type="checkbox"/>	TCLP FULLO <input type="checkbox"/>	VOAO <input type="checkbox"/>	SEMI-VOAO <input type="checkbox"/>	PESTO <input type="checkbox"/>	HERBO <input type="checkbox"/>	METALS, TOTAL <input type="checkbox"/>	METALS, TCLP <input type="checkbox"/>	LEAD, TOTAL 239.1 <input type="checkbox"/>	7421 <input type="checkbox"/>	LEAD, TCLP <input type="checkbox"/>	TOX/TOH <input type="checkbox"/>	REACTIVITY <input type="checkbox"/>	CORROSIVITY <input type="checkbox"/>	IGNITABILITY <input type="checkbox"/>	STATE
---	---	------------------------------	--	------------------------------	---------------------------------------	---	-------------------------------------	--	-----------------------------------	------------------------------	--	------------------------------	---------------------------------------	-------------------------------	-------------------------------	--	-----------------------------------	-------------------------------------	-------------------------------	------------------------------------	--------------------------------	--------------------------------	--	---------------------------------------	--	-------------------------------	-------------------------------------	----------------------------------	-------------------------------------	--------------------------------------	---------------------------------------	-------

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE	NO. OF CONTAINERS	CONTAINER SIZE	ANALYSIS REQUEST																	STATE					
					H <sub>2</sub> O	SOIL	AIR					BTEX 8020	WITH MIBTEX	602	PURGEABLE HALOCARBON 8010	601	TPHIR 418.1	O & G IR 413.1	GRAY 413.2	8015 DRO	VOL 8240	624	SEMI-VOL 8270	625	PNA/PAH 8100	8310	8270	PCB / PEST 8080		PCB ONLY	TCLP FULLO	VOAO	SEMI-VOAO	PESTO
MW-2	1/27	12:23	X	X				Hal Con	5	X																							CA	
MW-3		11:59						NPLT.																										
MW-4		10:13																																
MW-5		10:49																																
MW-6		11:39																																
MW-8		11:18																																
TB		12:30							2																									

TAT  
 24 HR. \_\_\_\_\_ \* 72 HR. \_\_\_\_\_ \*  
 48 HR. \_\_\_\_\_ \* 96 HR. \_\_\_\_\_ \*  
 Standard  \* Contact US Prior to Sending Sample  
 Other \_\_\_\_\_

EXXON UST CONTRACT NO. S02317M01

SPECIAL DETECTION LIMITS (Specify) SO

814372890716

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: 2

LAB USE ONLY LOT # 500 Storage Location 500  
 WORK ORDER #: 00010699 LAB WORK RELEASE #:

QA/QC Level  
 Standard  CLP  Other

FAX   FAX C-O-C W / REPORT

## CUSTODY RECORD

Relinquished By Sampler:	Date	Time	Received By:
<i>[Signature]</i>			
Relinquished By Sampler:	Date	Time	Received By:
Relinquished By Sampler:	Date	Time	Received By Laboratory:
			<i>[Signature]</i>

Way Bill #: Danna Copies: 1/29/1000



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

Sample Receipt Checklist

Workorder: 00010699  
Date and Time Received: 01/29/2000 10:00:00 AM  
Temperature: 2

Received by: Stelly, D'Anna  
Carrier name: FedEx

- 
- |   |   |                             |   |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/>            | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Container/Temp Blank temperature in compliance?         | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
| Water - VOA vials have zero headspace?                  | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/>            |
| Water - pH acceptable upon receipt?                     | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |   |
-



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

Case Narrative for:  
 EXXON Company U.S.A.

**RECEIVED**  
**FEB 16 2000**

Certificate of Analysis Number:  
00020137

<p><b>Report To:</b></p> <p>Environmental Resolution, Inc.          Jim Chappell          73 Digital Drive Suite 100</p> <p>Novato          California          94949-          ph: (415) 382-9105      fax: (415) 382-1856</p>	<p><b>Project Name:</b> 2009</p> <p><b>Site:</b> 7-0236,19908584</p> <p><b>Site Address:</b> 6600 East 14th St.          Oakland CA</p> <p><b>PO Number:</b></p> <p><b>State:</b> California</p> <p><b>State Cert. No.:</b> 1903</p> <p><b>Date Reported:</b> 2/11/00</p>
---	---

As per your request on February 4, 2000, your samples were re-logged and re-analyzed for Diesel Range Organics with a Silica Gel clean-up. Your samples were originally assigned to Certificate of Analysis No. 00010699.

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

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

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

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

*Sonia West*  
 West, Sonia  
 Senior Project Manager

2/13/00

Date



HOUSTON LABORATORY  
 8860 INTERCHANGE DRIVE  
 HOUSTON, TEXAS 77054  
 (713) 660-0901

EXXON Company U.S.A.

Certificate of Analysis Number:  
00020137

<b>Report To:</b> Environmental Resolution, Inc. Jim Chappell 73 Digital Drive Suite 100  Novato California 94949- ph: (415) 382-9105      fax: (415) 382-1856	<b>Project Name:</b> 2009  <b>Site:</b> 7-0236,19908584  <b>Site Address:</b> 6600 East 14th St. Oakland CA  <b>PO Number:</b>  <b>State:</b> California  <b>State Cert. No.:</b> 1903  <b>Date Reported:</b> 2/11/00
<b>Fax To:</b> Environmental Resolution, Inc. Jim Chappell      fax: (415) 382-1856	

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
NV-2	00020137-01	Water	1/27/00 12:23:00 PM	1/29/00 10:00:00 AM		<input type="checkbox"/>
NV-3	00020137-02	Water	1/27/00 11:59:00 AM	1/29/00 10:00:00 AM		<input type="checkbox"/>
MW-4	00020137-03	Water	1/27/00 10:13:00 AM	1/29/00 10:00:00 AM		<input type="checkbox"/>
MW-5	00020137-04	Water	1/27/00 10:49:00 AM	1/29/00 10:00:00 AM		<input type="checkbox"/>
NV-6	00020137-05	Water	1/27/00 11:39:00 AM	1/29/00 10:00:00 AM		<input type="checkbox"/>
MW-8	00020137-06	Water	1/27/00 11:18:00 AM	1/29/00 10:00:00 AM		<input type="checkbox"/>

*Sonia West*  
 West, Sonia  
 Senior Project Manager

2/13/00  
 Date

Joel Grice  
 Laboratory Director  
  
 Ted Yen  
 Quality Assurance Officer



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

Client Sample ID MW-2 Collected: 1/27/00 12:23:00 SPL Sample ID: 00020137-01

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	180	50	1		02/08/00 20:26	RR	185826
Surr: Pentacosane	94.4	% 18-120	1		02/08/00 20:26	RR	185826

Run ID/Seq #: HP\_V\_000208A-185826

Prep Method	Prep Date	Prep Initials
SW3510B	02/05/2000 16:15	KL

**Qualifiers:** ND/U - Not Detected at the Reporting Limit  
 B - Analyte detected in the associated Method Blank  
 \* - Surrogate Recovery Outside Advisable QC Limits  
 J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)  
 D - Surrogate Recovery Unreportable due to Dilution

2/11/00 11:21:11 AM



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

Client Sample ID MW-3 Collected: 1/27/00 11:59:00 SPL Sample ID: 00020137-02

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	ND	50	1		02/08/00 21:04	RR	185827
Surr: Pentacosane	82.0	% 18-120	1		02/08/00 21:04	RR	185827

Run ID/Seq #: HP\_V\_000208A-185827

Prep Method	Prep Date	Prep Initials
SW3510B	02/05/2000 16:15	KL

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

2/11/00 11:21:12 AM





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

Client Sample ID MW-4 Collected: 1/27/00 10:13:00 SPL Sample ID: 00020137-03

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	ND	50	1		02/08/00 21:42	RR	185828
Surr: Pentacosane	83.8 %	18-120	1		02/08/00 21:42	RR	185828

Run ID/Seq #: HP\_V\_000208A-185828

Prep Method	Prep Date	Prep Initials
SW3510B	02/05/2000 16:15	KL

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

2/11/00 11:21:12 AM



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

Client Sample ID MW-5 Collected: 1/27/00 10:49:00 SPL Sample ID: 00020137-04

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	ND	50	1		02/08/00 22:21	RR	185829
Surr: Pentacosane	63.4	% 18-120	1		02/08/00 22:21	RR	185829

Run ID/Seq #: HP\_V\_000208A-185829

Prep Method	Prep Date	Prep Initials
SW3510B	02/05/2000 16:15	KL

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

2/11/00 11:21:12 AM



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

Client Sample ID MW-6 Collected: 1/27/00 11:39:00 SPL Sample ID: 00020137-05

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	ND	50	1		02/08/00 22:59	RR	185830
Surr: Pentacosane	73.6 %	18-120	1		02/08/00 22:59	RR	185830

Run ID/Seq #: HP\_V\_000208A-185830

Prep Method	Prep Date	Prep Initials
SW3510B	02/05/2000 16:15	KL

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

2/11/00 11:21:12 AM



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

Client Sample ID MW-8 Collected: 1/27/00 11:18:00 SPL Sample ID: 00020137-06

Site: 7-0236,19908584

Analyses/Method	Result	Rep.Limit	Dil. Factor	QUAL	Date Analyzed	Analyst	Seq. #
<b>DIESEL RANGE ORGANICS</b>			<b>MCL</b>	<b>SW8015B</b>	<b>Units: ug/L</b>		
Diesel Range Organics	60	50	1		02/08/00 23:37	RR	185831
Surr: Pentacosane	98.2	% 18-120	1		02/08/00 23:37	RR	185831

Run ID/Seq #: HP\_V\_000208A-185831

Prep Method	Prep Date	Prep Initials
SW3510B	02/05/2000 16:15	KL

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

2/11/00 11:21:12 AM

*Quality Control Documentation*



Quality Control Report

EXXON Company U.S.A.

2009

Analysis: Diesel Range Organics  
Method: SW8015B

WorkOrder: 00020137  
Lab Batch ID: 3021

Method Blank

Samples in Analytical Batch:

RunID: HP\_V\_000208A-185834 Units: mg/L  
Analysis Date: 02/08/2000 18:32 Analyst: RR  
Preparation Date: 02/05/2000 16:15 Prep By: KL Method SW3510B

Lab Sample ID	Client Sample ID
00020137-01A	MW-2
00020137-02A	MW-3
00020137-03A	MW-4
00020137-04A	MW-5
00020137-05A	MW-6
00020137-06A	MW-8

Analyte	Result	Rep Limit
Diesel Range Organics	ND	0.050
Surr: Pentacosane	48.8	18-120

Laboratory Control Sample (LCS)

RunID: HP\_V\_000208A-185823 Units: mg/L  
Analysis Date: 02/08/2000 18:32 Analyst: RR  
Preparation Date: 02/05/2000 16:15 Prep By: KL Method SW3510B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics	2.5	2.1	83	44	141

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

Sample Spiked: 00020115-04  
RunID: HP\_V\_000208A-185836 Units: mg/L  
Analysis Date: 02/08/2000 19:48 Analyst: RR  
Preparation Date: 02/05/2000 16:15 Prep By: KL Method SW3510B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics	ND	2.5	1.5	58.8	2.5	1.6	61.2	4.00	39	13	130

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

*Chain of Custody  
And  
Sample Receipt Checklist*



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

SPL/HE/QA-F132.01

### RE-LOG WORKORDER REQUEST FORM

NEW WORKORDER NO.: 0002037

CHANGE CLIENT CODE TO: \_\_\_\_\_ RUSH Y or  N

Previous WO#: 00010699 New WO Due Date: 2-11-00

Date Requested: 2-4-00 Requested By: Sonia West

Tests/Preps:

SAMPLE(s)	FRACTION(s)	TEST/PREP CODE	F2/F5 COMMENTS
MW-2	-01	8015-W-DEL, PR 3630	P3510-W-DEL *Silica gel *
MW-3	-02	↓	↓ clean up!
MW-4	-03	↓	↓
MW-5	-04	↓	↓
MW-6	-05	↓	↓
MW-8	-06	↓	↓

REMEMBER TO RE-LABEL/RE-SCAN ALL AFFECTED SAMPLE CONTAINERS!!!!

MUST ATTACH A COPY OF THE ORIGINAL CHAIN OF CUSTODY BEFORE SUBMITTING TO LOGIN



# EXXON COMPANY, USA.

*SPL*

*00010699 00020137*

CHAIN OF CUSTODY RECORD NO. \_\_\_\_\_ Page 1 of 1

Exxon Engineer: Darin Rouse Phone: (925) 246-8768  
 Consultant Co. Name: ERI Contact: John Skance  
 Address: 73 Digital Dr, Suite 100 Phone: (415) 382-5996  
Novato, CA 94949 Fax: (415) 382-1856

RAS #: 7-0236 Facility/State ID # (TN Only): \_\_\_\_\_

AFE # (Terminal Only): \_\_\_\_\_ Consultant Project #: 2009

Location: 6600 East 14th St. (City): Oakland (State): CA

EE  C & M  SDT

Consultant Work Release #: 19908584 BTS# 000/27 R-1

Sampled By: Blaine Tech Services, Inc.

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

OTHER

NO. OF CONTAINERS	CONTAINER SIZE	ANALYSIS REQUEST (CHECK APPROPRIATE BOX)													STATE		
		BTEX 8020 <input checked="" type="checkbox"/> WITH MTBE <input checked="" type="checkbox"/> 602 <input type="checkbox"/>	PURGEABLE HALOCARBON 8010 <input type="checkbox"/> 601 <input type="checkbox"/>	TPHWR 418.1 <input type="checkbox"/>	O & G IR 413.1 <input type="checkbox"/> GRAV. 413.2 <input type="checkbox"/>	TPH / GC 8015 GRO <input checked="" type="checkbox"/> 8015 DRO <input checked="" type="checkbox"/>	VOL 8240 <input type="checkbox"/> 624 <input type="checkbox"/>	SEMI-VOL 8270 <input type="checkbox"/> 625 <input type="checkbox"/>	PNA/PAH 8100 <input type="checkbox"/> 8310 <input type="checkbox"/> 8270 <input type="checkbox"/>	PCB / PEST 8080 <input type="checkbox"/> PCB ONLY <input type="checkbox"/>	TCLP FULL <input type="checkbox"/> VOAC <input type="checkbox"/> SEMI-VOAC <input type="checkbox"/> PESTO <input type="checkbox"/> HERBO <input type="checkbox"/>	METALS, TOTAL <input type="checkbox"/> METALS, TCLP <input type="checkbox"/>	LEAD, TOTAL 239.1 <input type="checkbox"/> 7421 <input type="checkbox"/> LEAD, TCLP <input type="checkbox"/>	TOX/TOH <input type="checkbox"/>		REACTIVITY <input type="checkbox"/> CORROSIIVITY <input type="checkbox"/> IGNITABILITY <input type="checkbox"/>	
5		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>											CA
2																	

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE
					H <sub>2</sub> O	SOIL	AIR		
MW-2	4/27	12:23	X		X				Hol Van
MW-3		11:59							NPLT.
MW-4		10:13							
MW-5		10:49							
MW-6		11:39							
MW-8		11:18							
TB		12:30							

TAT  
 24 HR. \_\_\_\_\_ \* 72 HR. \_\_\_\_\_  
 48 HR. \_\_\_\_\_ \* 96 HR. \_\_\_\_\_  
 Standard  \* Contact US Prior to Sending Sample  
 Other \_\_\_\_\_

EXXON UST  
 CONTRACT NO.  
 S02317M01

SPECIAL DETECTION LIMITS (Specify) 50

814372890716

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS: 2

LAB USE ONLY LOT # \_\_\_\_\_ Storage Location \_\_\_\_\_

500 500 250  
00020137

WORK ORDER #: 00010699 LAB WORK RELEASE #: \_\_\_\_\_

## CUSTODY RECORD

Relinquished By Sampler:	Date	Time	Received By:
<i>[Signature]</i>			
Relinquished By Sampler:	Date	Time	Received By:
Relinquished By Sampler:	Date	Time	Received By Laboratory:

Way Bill #: Danna Atchley 1/24/04  
 Corder Term: \_\_\_\_\_



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

Sample Receipt Checklist

Workorder:

Received by:

Date and Time Received:

Carrier name:

Temperature:

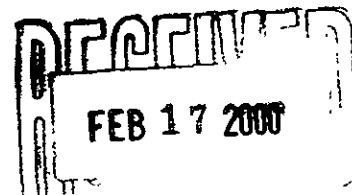
---

- |   |                              |  |                                      |
|---|------------------------------|--|--------------------------------------|
| Shipping container/cooler in good condition?            | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/> | No <input type="checkbox"/>            | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input type="checkbox"/> | No <input type="checkbox"/>            | Not Present <input type="checkbox"/> |
| Chain of custody present?                               | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
| Chain of custody signed when relinquished and received? | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
| Chain of custody agrees with sample labels?             | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
| Samples in proper container/bottle?                     | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
| Sample containers intact?                               | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
| Sufficient sample volume for indicated test?            | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
| All samples received within holding time?               | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
| Container/Temp Blank temperature in compliance?         | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
| Water - VOA vials have zero headspace?                  | Yes <input type="checkbox"/> | No <input type="checkbox"/>            | Not Present <input type="checkbox"/> |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/> | No <input type="checkbox"/>            |                                      |
-



# Sequoia Analytical

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



9 February, 2000

John Skance  
Environmental Resolutions (Exxon)  
73 Digital Drive, Suite 100  
Novato, CA 94949

RE: Exxon  
Sequoia Report: MJA0138

Enclosed are the results of analyses for samples received by the laboratory on 01/27/00 17:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew  
Project Manager

CA ELAP Certificate #1210





Environmental Resolutions (Exxon)  
73 Digital Drive, Suite 100  
Novato CA, 94949

Project: Exxon  
Project Number: 7-0236  
Project Manager: John Skance

Reported:  
02/09/00 18:10

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-2	MJA0138-01	Water	01/27/00 12:23	01/27/00 17:45
MW-3	MJA0138-02	Water	01/27/00 11:59	01/27/00 17:45
MW-5	MJA0138-03	Water	01/27/00 10:49	01/27/00 17:45

Sequoia Analytical - Morgan Hill

*The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.*

  
John Skance, Project Manager





Environmental Resolutions (Exxon)  
73 Digital Drive, Suite 100  
Novato CA, 94949

Project: Exxon  
Project Number: 7-0236  
Project Manager: John Skance

**Reported:**  
02/09/00 18:10

**Total Metals by EPA 6000/7000 Series Methods**

**Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-2 (MJA0138-01) Water</b> <b>Sampled: 01/27/00 12:23</b> <b>Received: 01/27/00 17:45</b>									
Ferrous Iron	0.0200	0.0100	mg/l	1	0B01026	02/01/00	02/07/00	EPA 6010A	
<b>MW-3 (MJA0138-02) Water</b> <b>Sampled: 01/27/00 11:59</b> <b>Received: 01/27/00 17:45</b>									
Ferrous Iron	0.0120	0.0100	mg/l	1	0B01026	02/01/00	02/07/00	EPA 6010A	
<b>MW-5 (MJA0138-03) Water</b> <b>Sampled: 01/27/00 10:49</b> <b>Received: 01/27/00 17:45</b>									
Ferrous Iron	0.0340	0.0100	mg/l	1	0B01026	02/01/00	02/07/00	EPA 6010A	





Environmental Resolutions (Exxon)  
73 Digital Drive, Suite 100  
Novato CA, 94949

Project: Exxon  
Project Number: 7-0236  
Project Manager: John Skance

**Reported:**  
02/09/00 18:10

**Conventional Chemistry Parameters by APHA/EPA Methods  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>MW-2 (MJA0138-01) Water</b> Sampled: 01/27/00 12:23 Received: 01/27/00 17:45									
Total Alkalinity	842	5.00	mg/l	1	0B02005	02/01/00	02/01/00	SM 2320B	
<b>MW-3 (MJA0138-02) Water</b> Sampled: 01/27/00 11:59 Received: 01/27/00 17:45									
Total Alkalinity	329	5.00	mg/l	1	0B02005	02/01/00	02/01/00	SM 2320B	
<b>MW-5 (MJA0138-03) Water</b> Sampled: 01/27/00 10:49 Received: 01/27/00 17:45									
Total Alkalinity	503	5.00	mg/l	1	0B02005	02/01/00	02/01/00	SM 2320B	





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Project Manager: John Skance

**Reported:**  
02/09/00 18:10

**Anions by EPA Method 300.0  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>TW-2 (MJA0138-01) Water</b> <b>Sampled: 01/27/00 12:23</b> <b>Received: 01/27/00 17:45</b>									
Nitrate as NO3	6.97	1.00	mg/l	10	0B01001	01/28/00	01/28/00	EPA 300.0	
Sulfate as SO4	28.2	5.00	"	"	"	"	"	"	
<b>TW-3 (MJA0138-02) Water</b> <b>Sampled: 01/27/00 11:59</b> <b>Received: 01/27/00 17:45</b>									
Nitrate as NO3	38.6	1.00	mg/l	10	0B01001	01/28/00	01/28/00	EPA 300.0	
Sulfate as SO4	61.9	5.00	"	"	"	"	"	"	
<b>TW-5 (MJA0138-03) Water</b> <b>Sampled: 01/27/00 10:49</b> <b>Received: 01/27/00 17:45</b>									
Nitrate as NO3	ND	1.00	mg/l	10	0B01001	01/28/00	01/28/00	EPA 300.0	
Sulfate as SO4	1.95	0.500	"	1	"	"	"	"	





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Project: Exxon  
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Reported:  
02/09/00 18:10

**Total Metals by EPA 6000/7000 Series Methods - Quality Control  
Sequoia Analytical - Morgan Hill**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 0B01026 - EPA 3005A**

<b>Blank (0B01026-BLK1)</b>				Prepared: 02/01/00 Analyzed: 02/07/00						
Ferrous Iron	ND	0.0100	mg/l							
<b>CS (0B01026-BS1)</b>				Prepared: 02/01/00 Analyzed: 02/07/00						
Ferrous Iron	1.00	0.0100	mg/l				80-120			
<b>Matrix Spike (0B01026-MS1)</b>				Source: MJA0172-01		Prepared: 02/01/00 Analyzed: 02/07/00				
Ferrous Iron	1.00	0.0100	mg/l		ND		80-120			
<b>Matrix Spike Dup (0B01026-MSD1)</b>				Source: MJA0172-01		Prepared: 02/01/00 Analyzed: 02/07/00				
Ferrous Iron	1.00	0.0100	mg/l		ND		80-120	0	20	







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Project: Exxon  
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Reported:  
02/09/00 18:10

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 0B02005 - General Preparation</b>										
<b>Blank (0B02005-BLK1)</b>				Prepared & Analyzed: 02/01/00						
Total Alkalinity	ND	5.00	mg/l							
<b>ICS (0B02005-BS1)</b>				Prepared & Analyzed: 02/01/00						
Total Alkalinity	99.0	5.00	mg/l	100		99.0	80-120			
<b>Matrix Spike (0B02005-MS1)</b>				Source: MJA0139-01 Prepared & Analyzed: 02/01/00						
Total Alkalinity	119	5.00	mg/l	100	44.4	74.6	75-125			Q-01
<b>Matrix Spike Dup (0B02005-MSD1)</b>				Source: MJA0139-01 Prepared & Analyzed: 02/01/00						
Total Alkalinity	119	5.00	mg/l	100	44.4	74.6	75-125	0	20	Q-01





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Novato CA, 94949

Project: Exxon  
Project Number: 7-0236  
Project Manager: John Skance

Reported:  
02/09/00 18:10

## Anions by EPA Method 300.0 - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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### Batch 0B01001 - General Preparation

#### Blank (0B01001-BLK1)

Prepared & Analyzed: 01/28/00

Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							

#### Blank (0B01001-BLK2)

Prepared & Analyzed: 01/28/00

Nitrate as NO3	ND	0.100	mg/l							
Sulfate as SO4	ND	0.500	"							

#### LCS (0B01001-BS1)

Prepared & Analyzed: 01/28/00

Nitrate as NO3	10.00	0.100	mg/l	10.0		100	80-120			
Sulfate as SO4	9.71	0.500	"	10.0		97.1	80-120			

#### LCS (0B01001-BS2)

Prepared & Analyzed: 01/28/00

Nitrate as NO3	10.00	0.100	mg/l	10.0		100	80-120			
Sulfate as SO4	9.71	0.500	"	10.0		97.1	80-120			

#### Matrix Spike (0B01001-MS1)

Source: MJA0167-01

Prepared & Analyzed: 01/28/00

Nitrate as NO3	121	1.00	mg/l	100	16.8	104	75-125			
Sulfate as SO4	144	5.00	"	100	4.16	140	75-125			Q-02

#### Matrix Spike (0B01001-MS2)

Source: MJA0167-01

Prepared & Analyzed: 01/28/00

Nitrate as NO3	121	1.00	mg/l	100	16.8	104	75-125			
Sulfate as SO4	144	5.00	"	100	4.16	140	75-125			

#### Matrix Spike Dup (0B01001-MSD1)

Source: MJA0167-01

Prepared & Analyzed: 01/28/00

Nitrate as NO3	121	1.00	mg/l	100	16.8	104	75-125	0	20	
Sulfate as SO4	144	5.00	"	100	4.16	140	75-125	0	20	

#### Matrix Spike Dup (0B01001-MSD2)

Source: MJA0167-01

Prepared & Analyzed: 01/28/00

Nitrate as NO3	121	1.00	mg/l	100	16.8	104	75-125	0	20	
Sulfate as SO4	144	5.00	"	100	4.16	140	75-125	0	20	





Environmental Resolutions (Exxon) 73 Digital Drive, Suite 100 Novato CA, 94949	Project: Exxon Project Number: 7-0236 Project Manager: John Skance	Reported: 02/09/00 18:10
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**Notes and Definitions**

- Q-01 The spike recovery for this QC sample is outside of established control limits. Review of associated batch QC indicates the recovery for this analyte does not represent an out-of-control condition for the batch.
- Q-02 The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
- 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
- RPD Relative Percent Difference



Exxon Engineer: Darin Rouse Phone: (925) 246-8768  
 Consultant Co. Name: ERI Contact: John Skance  
 Address: 73 Digital Dr, Suite 100 Phone: (415) 382-5996  
Novato, CA 94949 Fax: (415) 382-1856

RAS #: 7-0236 Facility/State ID # (TN Only): \_\_\_\_\_

A/E # (Terminal Only): \_\_\_\_\_ Consultant Project # 2009

Location: 6600 East 14th St. (City): Oakland (State): CA  
 EE  C & M  SDT

Consultant Work Release #: 19908584 BTS# 000/27 R-1

Sampled By: Blaine Tech Services, Inc.

NO. OF CONTAINERS	CONTAINER SIZE	ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)																OTHER																						
		BTEX 8020 <input type="checkbox"/>	WITH MTBE <input type="checkbox"/>	602 <input type="checkbox"/>	PURGEABLE HALOCARBON 8010 <input type="checkbox"/>	601 <input type="checkbox"/>	TPH/IR 418.1 <input type="checkbox"/>	O & G IR 413.1 <input type="checkbox"/>	GRAY 413.2 <input type="checkbox"/>	TPH/GC 8015 GRO <input type="checkbox"/>	8015 DRO <input type="checkbox"/>	VOL 8240 <input type="checkbox"/>	824 <input type="checkbox"/>	SEMI-VOL 8270 <input type="checkbox"/>	825 <input type="checkbox"/>	PNAP/PAH 8100 <input type="checkbox"/>	8310 <input type="checkbox"/>	8270 <input type="checkbox"/>	PCB/PEST 8080 <input type="checkbox"/>	PCB ONLY <input type="checkbox"/>	TCLP FULL <input type="checkbox"/>	VOA <input type="checkbox"/>	SEMI-VOA <input type="checkbox"/>	PEST <input type="checkbox"/>	HERB <input type="checkbox"/>	METALS, TOTAL <input type="checkbox"/>	METALS, TCLP <input type="checkbox"/>	LEAD, TOTAL 289.1 <input type="checkbox"/>	7421 <input type="checkbox"/>	LEAD, TCLP <input type="checkbox"/>	TOX/TOH <input type="checkbox"/>	REACTIVITY <input type="checkbox"/>	CORROSIVITY <input type="checkbox"/>	IGNITABILITY <input type="checkbox"/>	STATE	Sulfate, Nitrate	Ferrous Iron	Alkalinity		
2																																				CA	X	X	X	
2																																						X	X	X
2																																						X	X	X

SAMPLE I.D.	DATE	TIME	COMP.	GRAB	MATRIX			OTHER	PRESERVATIVE
					H <sub>2</sub> O	SOIL	AIR		
MW-2	1/27	12:33	X		U				NPLT.
MW-3	1/27	11:59	X		U				H <sub>2</sub> L
MW-5	1/27	10:49	X		U				

**MJAO138**

TAT  
 24 HR. \_\_\_\_\_ 72 HR. \_\_\_\_\_  
 48 HR. \_\_\_\_\_ 96 HR. \_\_\_\_\_  
 Standard  \* Contact US Prior to Sending Sample  
 Other \_\_\_\_\_

EXXON UST  
 CONTRACT NO.  
 S02317M01

SPECIAL DETECTION LIMITS (Specify)

SPECIAL REPORTING REQUIREMENTS (Specify)

REMARKS:  
Short Hold Time

LAB USE ONLY      LOT #      Storage Location

QA/QC Level  
 Standard  CLP  Other

FAX        FAX C-O-C W / REPORT

WORK ORDER #:      LAB WORK RELEASE #:

**CUSTODY RECORD**

Relinquished By Sampler: [Signature]  
 Relinquished By Sampler: [Signature]  
 Relinquished By Sampler: \_\_\_\_\_

Date: 1-27-00 Time: 1630 Received By: [Signature]  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: TOT (MH) 1-27-00 17:45  
 Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By Laboratory: \_\_\_\_\_  
 Way Bill #:      Cooler Temp: \_\_\_\_\_

**SHIP SAMPLES BACK TO: SEQUOIA ANALYTICAL-MORGAN HILL**